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and

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Cover photo: *Actiniopteris radiata* in South Africa (Klaus Mehlreter)

INTRODUCTION

The *Annual Review of Pteridological Research* (ARPR) provides a comprehensive list of literature citations on ferns and lycophytes published during one calendar year. Production begins after the calendar year ends in order to insure that the Review is as complete as possible. The authors, titles and subjects of the literature cited are indexed. The ARPR also includes a description of research interests and contact information of pteridologists who answered our annual questionnaire.

The ARPR is now published for 25 years and the last compiler, Joanne M. Sharpe was in charge since 1994. Joanne still supported this year's issue contributing database searches and advice, so that we could handle this task successfully. This year's issue contains 1,071 citations compiled from a search of a variety of on-line databases as well as our annual questionnaire to pteridologists throughout the world. We hope that the continuous publication of ARPR will enhance access to information published about ferns and lycophytes worldwide and stimulate further collaboration among pteridologists. For any feedback on this year's issue, please contact Klaus Mehltreter, Instituto de Ecología, A. C., Red de Ecología Funcional, Carretera antigua a Coatepec No. 351, El Haya, 91070 Xalapa, Ver., Mexico (klaus.mehltreter@inecol.edu.mx).

If you are not on our mailing list but would like to receive information about how to be included in future issues, or if you would like to obtain back issues of the *Annual Review of Pteridological Research* please contact Elisabeth A. Hooper, Treasurer, International Association of Pteridologists, Biology Department, Truman State University, 100 E Normal Street, Kirksville MO 63501-4221 USA, (iapferns@gmail.com). On-line access to the literature from back issues since 1994 is available on the website of the American Fern Society (www.amerfernsoc.org).

***Contributions of drawings suitable for the cover of a future Annual Review of Pteridological Research are always welcome. Please send to Elisabeth A. Hooper at the above address.

1. Abdullin, S. R. 2011. Effect of illumination on the distribution of phototrophic organisms in the entrance part of the Shul'gan-Tash Cave. *Russian Journal of Ecology* 42(3): 249-251. [Russian, *Cystopteris fragilis*]
2. Abercrombie, J. M., M. Stewart, M. R. Rao, M. E. Essington & C. N. Stewart, Jr. 2011. Aluminium accumulation in *Pteris cretica* and trace element uptake in vegetation growing on an abandoned aluminium smelter site in Knoxville, TN, USA. *International Journal of Environment and Pollution* 45(4): 310-326.
3. Abu Baker, M. A. & J. S. Brown. 2011. Variation of within-day foraging costs in the striped mouse (*Rhabdomys pumilio*). *Mammalian Biology* 76(5): 654-656. [fern habitat]
4. Adie, H. & M. J. Lawes. 2011. Podocarps in Africa: temperate zone relicts or rainforest survivors? *Smithsonian Contributions to Botany* 95: 79-100. [competition]
5. Adie, H., S. Richert, K. P. Kirkman & M. J. Lawes. 2011. The heat is on: frequent high intensity fire in bracken (*Pteridium aquilinum*) drives mortality of the sprouting tree *Protea caffra* in temperate grasslands. *Plant Ecology* 212(12): 2013-2022.
6. Agduma, A. R., M. J. M. M. Achondo, B. L. P. Bretana, V. P. Bello, L. L. Remollo, L. S. Mancao, J. P. Supremo, J. G. C. Salem & F. R. P. Salvana. 2011. Diversity of vascular plant species in an agroforest: the case of a rubber (*Hevea brasiliensis*) plantation in Makilala, North Cotabato. *Philippine Journal of Crop Science* 36(3): 57-64.
7. Agetsuma, N., Y. Agetsuma-Yanagihara & H. Takafumi. 2011. Food habits of Japanese deer in an evergreen forest: litter-feeding deer. *Mammalian Biology* 76(2): 201-207. [herbivory]
8. Agunbiade, F. O., A. A. Awe & K. O. Adebowale. 2011. Fuzzy logic-based modeling of the impact of industrial activities on the environmental status of an industrial estate in Nigeria. *Toxicological and Environmental Chemistry* 93(10): 1856-1879. [*Pteridium aquilinum*]
9. Agurauja, R. 2011. Reintroduction of the endangered fern species *Woodsia ilvensis* to Estonia: a long-term pilot study. *Biodiversity and Conservation* 20: 391-400.
10. Ahmad, A., R. Ghufuran & A. W. Zularisam. 2011. Phytosequestration of metals in selected plants growing on a contaminated Okhla Industrial Areas, Okhla, New Delhi, India. *Water Air and Soil Pollution* 217(1-4): 255-266. [*Marsilea quadrifolia*]
11. Ahmad, M., N. Jahan, Mahayrookh, Mehjabeen, A. Bin Rehman, M. Ahmad, O. Ullah & N. Mohammad. 2011. Differential inhibitory potencies of alcoholic extract of different parts of *Dryopteris chrysocoma* on inflammation in mice and rats. *Pakistan Journal of Pharmaceutical Sciences* 24(4): 559-563.
12. Ahmad, S. S. & Quratulann. 2011. Vegetation classification in Ayubia National Park, Pakistan using ordination methods. *Pakistan Journal of Botany* 43(5): 2315-2321. [*Adiantum caudatum*, *Dryopteris ramosa*]
13. Ahmady-Asbchin, S., M. Mohammadi, A. Bahrami, A. L. Monfared & N. Jafari. 2011. Batch studies on the removal of Ni (II) from aqueous solution by *Azolla filiculoides*. *African Journal of Biotechnology* 10(38): 7427-7431.
14. Ai, J., D. Zhang, S. Mu & X. Pan. 2011. Effect of EDTA on accumulation and translocation of Hg in *Nephrolepis exaltata* and responses of photosystem II. *Chinese Journal of Applied and Environmental Biology* 17(2): 219-222.
15. Akbar, Y. 2011. Floristic analysis of vascular plants in Wuqia Xinjiang. *Journal of Central China Normal University* 45(4): 616. [Chinese]
16. Akkiraz, M. S., F. Akgun & S. Orcen. 2011. Stratigraphy and palaeoenvironment of the Lower-"middle" Oligocene units in the northern part of the Western Taurides (Incesu area, Isparta, Turkey). *Journal of Asian Earth Sciences* 40(2): 452-474. [*Acrostichum aureum*]
17. Al-Arid, K., R. D. Bray & L. J. Musselman. 2011. Microspore wall morphogenesis of *Isoetes piedmontana* (Pfeiffer) Reed. *International Journal of Plant Sciences* 172(7): 856-861.

18. Alfonso-Moreno, R. A., C. Cadena-Vargas, G. Morales, N. Peña & B. Pérez. 2011. Conservación integral de *Dicksonia sellowiana* Hook., en Bogotá D.C. y su área de influencia. *Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales* 34(134): 79.
19. Ali, M. M., S. A. Hassan & A. S. M. Shaheen. 2011. Impact of riparian trees shade on aquatic plant abundance in conservation islands. *Acta Botanica Croatica* 70(2): 245-258. [*Azolla filiculoides*]
20. Alka, K., B. Lal, Y. B. Pakade & P. Chand. 2011. Assessment of bioaccumulation of heavy metals by *Pteris vittata* L. growing in fly ash vicinity. *International Journal of Phytoremediation* 13: 379-387.
21. Allen, M. S., K. Butler, J. Flenley & M. Horrocks. 2011. New pollen, sedimentary, and radiocarbon records from the Marquesas Islands, east Polynesia: Implications for archaeological and palaeoclimate studies. *Holocene* 21(3): 473-484.
22. Amit, S., K. Sunil, S. P. Bhatt & N. Arvind. 2011. Antibacterial activity of *Diplazium esculentum* (Retz.) Sw. *Pharmacognosy Journal* 3(21): 77-79.
23. Amoroso, V. B., S. H. Laraga & B. V. Calzada. 2011. Diversity and assessment of plants in Mt. Kitanglad Natural Park, Bukidnon, southern Philippines. *The Gardens' Bulletin, Singapore* 63 (1-2): 219-236.
24. Amoroso, V. B. & R. A. Aspiras. 2011. Hamiguitan Range: a sanctuary for native flora. *Saudi Journal of Biological Sciences* 18(1): 7-15.
25. Amparo Triana-Moreno, L. 2011. Novedades en *Pecluma* (Polypodiaceae). *Brittonia* 63(1): 62-65.
26. Anderson, L. L., M. Walsh, A. Roy, C. M. Bianchetti & G. Merchan. 2011. The potential of *Thelypteris palustris* and *Asparagus sprengeri* in phytoremediation of arsenic contamination. *International Journal of Phytoremediation* 13(2): 177-184.
27. Anthelme, F., A. Abdoukader & R. Viane. 2011. Are ferns in arid environments underestimated? Contribution from the Saharan Mountains. *Journal of Arid Environments* 75(6): 516-523.
28. Antony, R. & N. Mohanan. 2011. *Metathelypteris flaccida* (Blume) Ching (Thelypteridaceae: Pteridophyta), a very rare and little known fern from Kerala. *Journal of Non-Timber Forest Products* 18 (2): 161-162.
29. Anwar, S. A., M. V. McKenry & S. I. Yasin. 2011. Rice-root nematode, *Hirschmaniella oryzae*, infecting rice selections and weed genotypes. *Pakistan Journal of Zoology* 43(2): 373-378. [*Marsilea minuta*]
30. Anzotegui, L. M. & M. Y. Horn. 2011. Megafloora of the Palo Pintado Formation (Late Miocene) Salta, Argentina. Part II. *Revista Brasileira de Paleontologia* 14(3): 239-254. [*Acrostichum paleoaureum*, *Blechnum serrulatiformis*, *Lycopodiella cernua*]
31. Arana, M. D., J. J. Morrone, M. Ponce & A. J. Oggero. 2011. Lycophytes (Equisetopsida: Lycopodiidae) from the Central Hills of Argentina: a panbiogeographic approach. *Gayana Botanica* 68(1): 16-22.
32. Arana, M., C. Bianco, E. Martínez Carretero & A. J. Oggero. 2011. Licofitas y helechos de Mendoza. *Multequina* 20 (3): 1-73.
33. Armenta-Medina, A., E. Demesa-Arévalo & J. Vielle-Calzada. 2011. Epigenetic control of cell specification during female gametogenesis. *Sexual Plant Reproduction* 24(2): 137-147.
34. Armstrong, J. & W. Armstrong. 2011. Reasons for the presence or absence of convective (pressurized) ventilation in the genus *Equisetum*. *New Phytologist* 190(2): 387-397. [aerenchyma]
35. Aronson, M. F. J. & S. N. Handel. 2011. Deer and invasive plant species suppress forest herbaceous communities and canopy tree regeneration. *Natural Areas Journal* 31(4): 400-407.
36. Ashihara, H., Y. Yin & S. Watanabe. 2011. Nicotinamide metabolism in ferns: formation of nicotinic acid glucoside. *Plant Physiology and Biochemistry* 49(3): 275-279.

37. Ashmore, S. E., K. N. Hamilton & C. A. Offord. 2011. Conservation technologies for safeguarding and restoring threatened flora: case studies from eastern Australia. *In Vitro Cellular & Developmental Biology Plant* 47(1, Sp. Iss. SI): 99-109. [*Tectaria devexa*]
38. Atkin, S. L., S. Barrier, Z. Cui, P. D. I. Fletcher, G. Mackenzie, V. Panel, V. Sol & X. Zhang. 2011. UV and visible light screening by individual sporopollenin exines derived from *Lycopodium clavatum* (club moss) and *Ambrosia trifida* (giant ragweed). *Journal of Photochemistry and Photobiology B Biology* 102(3): 209-217.
39. Atwood, J. P. & L. A. Meyerson. 2011. Island biogeography extends to small-scale habitats: low competitor density and richness on islands may drive trait variation in nonnative plants. *Biological Invasions* 13(9): 2035-2043. [*Equisetum arvense*, *Onoclea sensibilis*, *Pteridium aquilinum*]
40. Avila-Pérez, M. D. R., L. White-Olascoaca & A. M. Arzate-Fernández. 2011. *In vitro* regeneration of leatherleaf fern (*Rumohra adiantiformis* (G.Forst.) Ching). *American Fern Journal* 101(1): 25-35.
41. Aya, K., Y. Hiwatashi, M. Kojima, H. Sakakibara, M. Ueguchi-Tanaka, M. Hasebe & M. Matsuoka. 2011. The Gibberellin perception system evolved to regulate a pre-existing GAMYB-mediated system during land plant evolution. *Nature Communications* 2: 544. [*Selaginella moellendorffii*]
42. Bace, R., M. Svoboda & P. Janda. 2011. Density and height structure of seedlings in subalpine spruce forests of Central Europe: logs vs. stumps as a favourable substrate. *Silva Fennica* 45(5): 1065-1078. [*Athyrium distentifolium*]
43. Bach, K. & S. R. Gradstein. 2011. A comparison of six methods to detect altitudinal belts of vegetation in tropical mountains. *Ecotropica* 17(1): 1-13.
44. Bagella, S., M. C. Caria, A. Molins & J. Antoni Rossello. 2011. Different spore structures in sympatric *Isoetes histrix* populations and their relationship with gross morphology, chromosome number, and ribosomal nuclear ITS sequences. *Flora* 206(5): 451-457.
45. Bainard, J. D., T. A. Henry, L. D. Bainard & S. G. Newmaster. 2011. DNA content variation in monilophytes and lycophytes: large genomes that are not endopolyploid. *Chromosome Research* 19(6): 763-775.
46. Bakan, B. 2011. A survey of the flora of the western part of Dolinsko Region (Prekmurje, Slovenia) (squares 9363/3, 9363/4, 9463/1 and 9463/2). *Scopolia* 71: 1-141.
47. Bakhshi, P. K. 2011. Hungary works on toxic sludge soil. *Nature* 469(7329): 162. [*Pteris vittata*]
48. Balasubramaniam, M., B. Joyce, C. N. Stewart, D. Lee & M. Elless. 2011. Tools for fern functional genomics. *In Vitro Cellular and Developmental Biology-Animal* 47:S58.
49. Ballesteros, D., E. Estrelles, C. Walters & A. M. Ibars. 2011. Effect of storage temperature on green spore longevity for the ferns *Equisetum ramosissimum* and *Osmunda regalis*. *Cryo Letters* 32: 89-98.
50. Bandyopadhyay, M., A. Chakraborti, K. Chakraborti, T. Sen, U. Sen & S. Rahaman. 2011. Floral survey of ferns in the graveyards of North 24 Parganas. Paper presented in the International Symposium on System Intensification towards Food & Environmental Security, organized by CWSS, BCKV, Mohanpur and NABARD, Kolkata during Feb. 24-27, 2011 at Kalyani, West Bengal. Abstract p. 74.
51. Banks, J. A., T. Nishiyama, M. Hasebe, J. L. Bowman, M. Gribskov, C. DePamphilis, V. A. Albert, N. Aono, T. Aoyama, B. A. Ambrose, N. W. Ashton, M. J. Axtell, E. Barker, M. S. Barker, J. L. Bennetzen, N. D. Bonawitz, C. Chapple, C. Cheng, L. G. Correa, M. Dacre, J. DeBarry, I. Dreyer, M. Elias, E. M. Engstrom, M. Estelle, L. Feng, C. Finet, S. K. Floyd, W. B. Frommer, T. Fujita, L. Gramzow, M. Gutensohn, J. Harholt, M. Hattori, A. Heyl., T. Hirai, Y. Hiwatashi, M. Ishikawa, M. Iwata, K. G. Karol, B. Koehler, U. Kolukisaoglu, M. Kubo, T. Kurata, S. Lalonde, K. Li, Y. Li, A. Litt, E. Lyons, G. Manning, T. Maruyama, T. P. Michael,

- K. Mikami, S. Miyazaki, S. Morinaga, T. Murata, B. Mueller-Roeber, D. R. Nelson, M. Obara, Y. Oguri, R. G. Olmstead, N. Onodera, B. L. Peterson, B. Pils, M. Prigge, S. A. Rensing, D. M. Riano-Pachon, A. W. Roberts, Y. Sato, H. V. Scheller, B. Schulz, C. Schulz, E. V. Shakirov, N. Shibagaki, N. Shinohara, D.E. Shippen, I. Sorensen, R. Sotooka, N. Sugimoto, M. Sugita, N. Sumikawa, M. Tanurdzic, G. Theissen, P. Ulvskov, S. Wakazuki, J. K. Weng, W. W. Willats, D. Wipf, P. G. Wolf, L. Yang, A. D. Zimmer, Q. Zhu, T. Mitros, U. Hellsten, D. Logue, R. Otilar, A. Salamov, J. Schmutz, H. Shapiro, E. Lindquist, S. Lucas, D. Rokhsar & I.V. Grigoriev. 2011. The *Selaginella* genome identifies changes in gene content associated with the evolution of vascular plants. *Science* 332: 960-963.
52. Banthoengsuk, S., S. Ketsa & W. G. van Doorn. 2011. 1-MCP partially alleviates dehydration-induced abscission in cut leaves of the fern *Nephrolepis cordifolia*. *Postharvest Biology and Technology* 59(3): 253-257.
53. Barakat, A., N. B. M. Yassin, J. S. Park, A. Choi, J. Herr & J. E. Carlson. 2011. Comparative and phylogenomic analyses of cinnamoyl-CoA reductase and cinnamoyl-CoA-reductase-like gene family in land plants. *Plant Science* 181(3): 249-257. [*Selaginella moellendorffii*]
54. Barbe, G., D. Fiset & A. B. Charette. 2011. Asymmetric total synthesis of (+)-luciduline: toward a general approach to related *Lycopodium* alkaloids. *Journal of Organic Chemistry* 76(13): 5354-5362.
55. Barcelo, J. & C. Poschenrieder. 2011. Hyperaccumulation of trace elements: from uptake and tolerance mechanisms to litter decomposition; selenium as an example. *Plant and Soil* 341(1-2): 31-35. [*Pteris vittata*]
56. Barina, Z., D. Pifko & A. Mesterhazy. 2011. Contributions to the flora of Albania, 3. *Willdenowia* 41(2): 329-339.
57. Barkatullah & M. Ibrar. 2011. Plants profile of Malakand Pass Hills, District Malakand, Pakistan. *African Journal of Biotechnology* 10(73): 16521-16535.
58. Barke, J., H. A. Abels, F. Sangiorgi, D. R. Greenwood, A. R. Sweet, T. Donders, G. J. Reichart, A. F. Lotter & H. Brinkhuis. 2011. Orbitally forced *Azolla* blooms and Middle Eocene Arctic hydrology: clues from palynology. *Geology* 39(5): 427-430.
59. Barnicoat, H., R. Cripps, J. Kendon & V. Sarasan. 2011. Conservation *in vitro* of rare and threatened ferns-case studies of biodiversity hotspot and island species. *In Vitro Cellular and Developmental Biology - Plant* 47(1): 37-45.
60. Barón, E. J. R., H. G. F. Ballesteros, L. V. G. Landazábal, G. A. Torres & C. H. Roller. 2011. Ontogeny of strobili, sporangia development and sporogenesis in *Equisetum giganteum* (Equisetaceae) from the Colombian Andes. *Revista de Biología Tropical* 59(4): 1845-1858. [Spanish]
61. Barrington, D. S. 2011. Should hybrids be protected by listing; *Betula x sandbergii* and *Botrychium minganense* in Vermont. *Journal of the Torrey Botanical Society* 138(4): 465-471.
62. Barrington, D. S. 2011. The fern genus *Polystichum* (Dryopteridaceae) in Costa Rica. *Annals of the Missouri Botanical Garden* 98(4): 431-446.
63. Barron, E. & J. Maria Postigo-Mijarra. 2011. Early Miocene fluvial-lacustrine and swamp vegetation of La Rinconada mine (Ribesalbes-Alcora basin, eastern Spain). *Review of Palaeobotany and Palynology* 165(1-2): 11-26.
64. Barui, N. C. 2011. Floral diversity of mangrove plants with reference to palaeoenvironment during holocene in Bengal Basin, India. *Quaternary International* 229: 89-93. [*Acrostichum*]
65. Bar-Yam, S. & D. H. Morse. 2011. Host-plant choice behavior at multiple life-cycle stages: the roles of mobility and early growth in decision-making. *Ethology* 117(6): 508-519. [*Onoclea sensibilis*, *Thelypteris palustris*]
66. Bashforth, A. R., J. Drabkova, S. Oplustil, M. R. Gibling & H. J. Falcon-Lang. 2011. Landscape gradients and patchiness in riparian vegetation on a Middle Pennsylvanian braided-river plain

- prone to flood disturbance (Nyrany Member, Central and Western Bohemian Basin, Czech Republic). *Review of Palaeobotany and Palynology* 163(3-4): 153-189.
67. Batten, D. J., A. M. Zavattieri & M. E. Collinson. 2011. Megaspores from the upper Maastrichtian of the eastern Spanish Pyrenees and their biostratigraphic, palaeogeographic and palaeoenvironmental significance. *Review of Palaeobotany and Palynology* 167(1-2): 156-172.
68. Batten, D. J., M. E. Collinson & A. R. Brain. 2011. Megaspores and microspores of the extant and Paleogene marsileaceous fern *Regnellidium* and Cretaceous *Molaspora*: evolutionary and phytogeographic implications. *International Journal of Plant Sciences* 172(9): 1087-1100.
69. Bauer, P., R. Elbaum & I. M. Weiss. 2011. Calcium and silicon mineralization in land plants: transport, structure and function. *Plant Science* 180(6): 746-756.
70. Baum, T., L. Thompson & K. Ghorbani. 2011. Complex dielectric measurements of forest fire ash at x-band frequencies. *IEEE Geoscience and Remote Sensing Letters* 8(5): 859-863. [*Pteridium*]
71. Beck, J. B., M. D. Windham & K. M. Pryer. 2011. Do asexual lineages lead short evolutionary lives? A case-study from the fern genus *Astrolepis*. *Evolution* 65: 3217-3229.
72. Bee, J. N., A. J. Tanentzap, W. G. Lee, R. B. Lavers, A. F. Mark, J. A. Mills & D. A. Coomes. 2011. Influence of foliar traits on forage selection by introduced red deer in New Zealand. *Basic and Applied Ecology* 12(1): 56-63.
73. Bégu, D., B. Castandet & A. Araya. 2011. RNA editing restores critical domains of a group I intron in fern mitochondria. *Current Genetics* 57(5): 317-325.
74. Behera, S.K., V. K. Rawat, A. P. Singh & P. B. Khare. 2011. Studies on the spore germination, developmental pattern and sexuality of gametophytes in *Dipteris wallichii* (R. Br. ex Hook. et Grev.) T. Moore. *Indian Fern Journal* 28(1-2): 172-178.
75. Bell, F. W., M. Kershaw, I. Aubin, N. Thiffault, J. Dacosta & A. Wiensczyk. 2011. Ecology and traits of plant species that compete with boreal and temperate forest conifers: an overview of available information and its use in forest management in Canada. *Forestry Chronicle* 87(2): 161-174.
76. Belmonte, R., S. Pajarón & E. Pangua. 2011. Helechos de la provincia de Albacete. *Sabuco* 8: 9-68.
77. Benabdellah, K., Y. Abbas, M. Abourouh, R. Aroca & R. Azcon. 2011. Influence of two bacterial isolates from degraded and non-degraded soils and arbuscular mycorrhizae fungi isolated from semi-arid zone on the growth of *Trifolium repens* under drought conditions: Mechanisms related to bacterial effectiveness. *European Journal of Soil Biology* 47(5): 303-309. [*Asplenium onopteris*]
78. Bencivenga, S., L. Colombo & S. Masiero. 2011. Cross talk between the sporophyte and the megagametophyte during ovule development. *Sexual Plant Reproduction* 24(2): 113-121.
79. Bennert, H. W., K. Horn, M. Kauth, J. Fuchs, I. S. Bisgaard Jakobsen, B. Øllgaard, M. Schnittler, M. Steinberg & R. Viane. 2011. Flow cytometry confirms reticulate evolution and reveals triploidy in central European *Diphasiastrum* taxa (Lycopodiaceae, Lycopphyta). *Annals of Botany* 108: 867-876.
80. Benniamin, A. 2011. Medicinal ferns of north eastern India with special reference to Arunachal Pradesh. *Indian Journal of Traditional Knowledge* 10(3): 516-522.
81. Benniamin, A. 2011. Studies on the genus *Dryopteris* Adans. (Pteridophyta-Aspidiaceae *sensu lato*) from Mizoram (north east India). *Indian Journal of Forestry* 34: 345-352.
82. Berg, R. Y. 2011. The rare "lady-of-the-wood plant", *Cystopteris sudetica* (Woodsiaceae), in Norway. *Blyttia* 69(4): 221-243.
83. Beri, A., F. Cernuschi & X. Martinez-Blanco. 2011. Palynology of the San Gregorio and Melo Formations in borehole 254 (Dinamige), Late Paleozoic, Parana Basin, Uruguay. *Ameghiniana* 48(4): 480-495. [*Calamospora*, *Leiotriletes*, *Lundbladispota*, *Punctatisporites*]

84. Berk, S., B. Tepe, S. Arslan & C. Sarikurkcü. 2011. Screening of the antioxidant, antimicrobial and DNA damage protection potentials of the aqueous extract of *Asplenium ceterach* DC. *African Journal of Biotechnology* 10(44): 8902-8908.
85. Besson, S. & J. Dumais. 2011. Universal rule for the symmetric division of plant cells. *Proceedings of the National Academy of Sciences of the United States of America* 108(15): 6294-6299.
86. Beuning, K. R. M., K. A. Zimmerman, S. J. Ivory & A. S. Cohen. 2011. Vegetation response to glacial-interglacial climate variability near Lake Malawi in the southern African tropics. *Palaeogeography Palaeoclimatology Palaeoecology* 303(1-4): 81-92.
87. Bhattacharya, N. & S. Halder. 2011. Phytochemical analysis of fern plants of different ecosystems. *Indian Fern Journal* 28(1-2): 120-128.
88. Bhowmik, N. & N. Das. 2011. Further report on megaspores from the Triassic of Nidpur, Madhya Pradesh, India. *Acta Palaeobotanica* 51(2): 107-125.
89. Bian, Y., Z. Jian, C. Weng, W. Kuhnt, T. Bolliet & A. Holbourn. 2011. A palynological and palaeoclimatological record from the southern Philippines since the last glacial maximum. *Chinese Science Bulletin* 56(22): 2359-2365.
90. Bianchini Jr, I., M. B. Cunha-Santino & R. S. Panhota. 2011. Oxygen uptake from aquatic macrophyte decomposition from Piraju Reservoir (Piraju, SP, Brazil). *Brazilian Journal of Biology* 71(1): 27-35. [*Azolla caroliniana*, *Salvinia auriculata*]
91. Bickford, D. P., J. A. Sheridan & S. D. Howard. 2011. Climate change responses: forgetting frogs, ferns and flies? *Trends in Ecology and Evolution* 26(11): 553-554.
92. Binka, K. & J. Nitychoruk. 2011. Cyclicity in the Eemian climate? A case study of the Eemian site at Czapple, eastern Poland. *Review of Palaeobotany and Palynology* 164(1-2): 39-44. [*Lycopodium lucidulum*, *Osmunda cinnamomea*]
93. Binka, K., J. Nitychoruk & J. Dzierzek. 2011. Climate stability during the Eemian - new pollen evidence from the Nidzica site, northern Poland. *Boreas* 40(2): 342-350.
94. Bir, S. S., Y. S. Bedi, V. K. Singhal & B. S. Gill. 2011. Forest vegetation characteristics of Pachmarhi hills, Central India. *Proceedings of the Indian National Science Academy Part B Biological Sciences* 81(3): 317-340.
95. Bischoff, K. & M. C. Smith. 2011. Toxic plants of the northeastern United States. *Veterinary Clinics of North America-Food Animal Practice* 27(2): 459-480.
96. Block, T. A. & A. F. Rhoads. 2011. *Aquatic plants of Pennsylvania: a complete reference guide*. University of Pennsylvania Press, Philadelphia, PA, USA, 330 pp. [*Equisetum*, *Isoetes*]
97. Blum, C. T., C. V. Roderjan & F. Galvao. 2011. Floristic composition and altitudinal distribution of vascular epiphytes in the ombrophilous dense forest of the Prata Mountain Range, Morretes, Parana State, Brazil. *Biota Neotropica* 11(4): 141-159. [Portuguese]
98. Bobrov, A. A. & E. V. Chemeris. 2011. River vegetation of the Vetluga Basin (Kostroma Region). *Byulleten' Moskovskogo Obshchestva Ispytatelei Prirody Otdel Biologicheskii* 116(2): 44-62. [Russian]
99. Bogdanovic, M., M. Ilic, S. Zivkovic, A. Sabovljevic, D. Grubisic & M. Sabovljevic. 2011. Comparative study on the effects of NaCl on selected moss and fern representatives. *Australian Journal of Botany* 59(8): 734-740. [*Asplenium viride*, *Ceterach officinarum*, *Phyllitis scolopendrium*]
100. Bohn, K. K., P. J. Minogue & E. C. Pieterse. 2011. Control of invasive Japanese climbing fern (*Lygodium japonicum*) and response of native ground cover during restoration of a disturbed Longleaf Pine ecosystem. *Ecological Restoration* 29(4): 346-356.
101. Bolin, J. F., R. D. Bray & L. J. Musselman. 2011. A new species of diploid quillwort (*Isoetes*, Isoetaceae, Lycophyta) from Lebanon. *Novon* 21(3): 295-298.

102. Bomfleur, B., C. Pott & H. Kerp. 2011. Plant assemblages from the Shafer Peak Formation (Lower Jurassic), North Victoria Land, Transantarctic Mountains. *Antarctic Science* 23(2): 188-208. [*Mesentefiophyllum*]
103. Bomfleur, B., M. Krings, E. L. Taylor & T. N. Taylor. 2011. Macrofossil evidence for pleuromeialean lycophytes from the Triassic of Antarctica. *Acta Palaeontologica Polonica* 56(1): 195-203.
104. Bona, E., F. Marsano, N. Massa, C. Cattaneo, P. Cesaro, E. Argese, L. S. di Toppi, M. Cavaletto & G. Berta. 2011. Proteomic analysis as a tool for investigating arsenic stress in *Pteris vittata* roots colonized or not by arbuscular mycorrhizal symbiosis. *Journal of Proteomics* 74(8, Sp. Iss. SI): 1338-1350.
105. Bonadies, F., G. Berardi, R. Nicoletti, F. S. Romolo, F. de Giovanni, R. Marabelli, A. Santoro, C. Raso, A. Tagarelli, F. Roperto, V. Russo & S. Roperto. 2011. A new, very sensitive method of assessment of ptaquiloside, the major bracken carcinogen in the milk of farm animals. *Food Chemistry* 124(2): 660-665.
106. Bonadies, F., G. Berardi, R. Nicoletti, F. S. Romolo, F. de Giovanni, R. Marabelli, A. Santoro, C. Raso, A. Tagarelli, F. Roperto, V. Russo & S. Roperto. 2011. A new, very sensitive method of assessment of ptaquiloside, the major bracken carcinogen in the milk of farm animals. *Food Chemistry* 124(2): 660-665.
107. Boonkerd, T. & R. Pollawatn. 2011. *Adiantum capillus-junonis* Rupr.: an additional species of *Adiantum* L. (Pteridaceae) for Thailand. *ScienceAsia* 37(4): 370-372.
108. Boonsompat, J. & A. Padwa. 2011. An IMDAF cycloaddition approach toward the synthesis of the *Lycopodium* alkaloid (+/-)-fawcettidine. *Journal of Organic Chemistry* 76(8): 2753-2761.
109. Boothby, T. C. & S. M. Wolniak. 2011. Masked mRNA is stored with aggregated nuclear speckles and its asymmetric redistribution requires a homolog of mago nashi. *BMC Cell Biology* 12: 45. [*Marsilea vestita*]
110. Boothby, T. C. & S. M. Wolniak. 2011. Regulation of ciliary assembly through intron retention. *Molecular Biology of the Cell* 22: 260. [*Marsilea vestita*]
111. Borovecki-Voska, L., R. Cicmir & D. Sincek. 2011. A new finding of the species *Botrychium matricariifolium* (Retz.) A. Br. ex Koch (Ophioglossaceae) in Croatia. *Natura Croatica* 20(1): 229-232.
112. Boughton, A. & R. W. Pemberton. 2011. Limited field establishment of a weed biocontrol agent, *Floracarus perrepae* (Acariformes: Eriophyidae), against Old World climbing fern in Florida - a possible role of mite resistant plant genotypes. *Environmental Entomology* 40(6): 1448-1457.
113. Boughton, A. J., G. R. Buckingham, C. A. Bennett, R. Zonneveld, J. A. Goolsby, R. W. Pemberton & T. D. Center. 2011. Laboratory host range of *Austromusotima camptozonale* (Lepidoptera: Crambidae), a potential biological control agent of Old World climbing fern, *Lygodium microphyllum* (Lygodiaceae). *Biocontrol Science and Technology* 21(6): 643-676.
114. Braga, F. T., M. Pasqual, E. M. de Castro, G. C. Rafael, A. C. Favero & T. C. Teixeira Valente. 2011. Morphophysiological changes of pineapple plants influenced by different substrates during the process of acclimatization. *Ciencia E Agrotecnologia* 35(5): 863-868. [tree fern fiber]
115. Braghieri, A., C. Pacelli, A. Girolami & F. Napolitano. 2011. Time budget, social and ingestive behaviours expressed by native beef cows in Mediterranean conditions. *Livestock Science* 141(1): 47-52. [*Pteridium*, herbivory]
116. Brecknock, S., T. P. Dibbayawan, M. Vesk, P. A. Vesk, C. Faulkner, D. A. Barton & R. L. Overall. 2011. High resolution scanning electron microscopy of plasmodesmata. *Planta* 234(4): 749-758. [*Azolla pinnata*]
117. Bredebach, M., U. Matern & S. Martens. 2011. Three 2-oxoglutarate-dependent dioxygenase activities of *Equisetum arvense* L. forming flavone and flavonol from (2S)-naringenin. *Phytochemistry* 72(7): 557-563.

118. Břízová, E. 2011. Quillwort (*Isoëtes*), a mysterious plant from the Czech Republic. *Acta Musei Nationalis Pragae, Series B - Historia Naturalis* 67(1-2): 25-34.
119. Brockerhoff, E. G., D. M. Suckling, C. E. Ecroyd, S. J. Wagstaff, M. C. Raabe, R. V. Dowell & C. H. Wearing. 2011. Worldwide host plants of the highly polyphagous, invasive *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Journal of Economic Entomology* 104(5): 1514-1524. [herbivory]
120. Brodribb, T. J. & S. M. McAdam. 2011. Passive origins of stomatal control in vascular plants. *Science* 331(6017): 582-585.
121. Brownsey, P. J. & L. R. Perrie. 2011. A revised checklist of Fijian ferns and lycophytes. *Telopea* 13: 513-562.
122. Budziszewska, J., W. Szypula, M. Wilk & M. Wrzosek. 2011. *Paraconiothyrium babiogorensis* sp. nov., a new endophyte from fir club moss *Huperzia selago* (Huperziaceae). *Mycotaxon* 115: 457-468.
123. Buecker, A., P. Crespo, H. G. Frede & L. Breuer. 2011. Solute behaviour and export rates in neotropical montane catchments under different land-uses. *Journal of Tropical Ecology* 27(3): 305-317. [*Pteridium*]
124. Buhr, C., V. Kummer, K. Arlt, A. Basner, M. Burkart, W. Fischer, J. Fuerstenow, I. Geissler, H. Hammerschmidt, A. Herrmann, U. Herrmann, P. Hiepko, F. Hoehl, H. Illig, B. Juettersenke, B. Kehl, M. Neubauer, V. Otte, U. Raabe, S. Raetzl, M. Ristow, B. Schoepke & E. Weber. 2011. Contribution to the flora of the Potsdam City Area IV. *Verhandlungen des Botanischen Vereins von Berlin und Brandenburg* 144: 117-175. [*Asplenium trichomanes*]
125. Bui Thi Kim, A., K. Dang Dinh, T. Iran Van, K. Nguyen Trung & A. Do Tuan. 2011. Phytoremediation potential of indigenous plants from Thai Nguyen province, Vietnam. *Journal of Environmental Biology* 32(2): 257-262. [*Equisetum ramosissimum*, *Pityrogramma calomelanos*, *Pteris vittata*]
126. Burgess, K. S., A. J. Fazekas, P. R. Kesanakurti, S. W. Graham, B. C. Husband, S. G. Newmaster, D. M. Percy, M. Hajibabaei & S. C. H. Barrett. 2011. Discriminating plant species in a local temperate flora using the rbcL plus matK DNA barcode. *Methods in Ecology and Evolution* 2(4): 333-340.
127. Burns, B. R., C. G. Floyd, M. C. Smale & G. C. Arnold. 2011. Effects of forest fragment management on vegetation condition and maintenance of canopy composition in a New Zealand pastoral landscape. *Austral Ecology* 36(2): 153-166. [*Cyathea dealbata*]
128. Buzjak, N., S. Buzjak & D. Oresic. 2011. Floristic, microclimatic and geomorphological features of collapsed doline Japage on the Zumberak (Croatia). *Sumarski List* 135(3-4): 127-137. [Croatian, English abstract, *Asplenium*, *Athyrium*, *Dryopteris*, *Polypodium*, *Polystichum*, *Pteridium*]
129. Bystriakova, N., H. Schneider & D. A. Coomes. 2011. Evolution of the climatic niche in scaly tree ferns (Cyatheaceae, Polypodiopsida). *Botanical Journal of the Linnean Society* 165(1): 1-19.
130. Bystriakova, N., M. Bader, M. & D. A. Coomes. 2011. Long-term tree fern dynamics linked to disturbance and shade tolerance. *Journal of Vegetation Science* 22(1): 72-84.
131. Calderón Tobar, Á., E. Marrero Faz, V. Murillo & V. Vega. 2011. Reporte de casos de hematuria enzoótica bovina por ingestión de *Pteridium arachnoideum* en la región ganadera de San Miguel de Bolívar, Provincia Bolívar, Ecuador. *Revista de Salud Animal* 33(3): 197-202. [Spanish]
132. Calderon-Montano, J. M., E. Burgos-Moron, C. Pérez-Guerrero & M. Lopez-Lazaro. 2011. A review on the dietary flavonoid kaempferol. *Mini-Reviews in Medicinal Chemistry* 11(4): 298-344. [*Equisetum*]

133. Camacho, L. M., W. Gutierrez, M. T. Alarcón-Herrera, M. de Lourdes Villalba & S. Deng. 2011. Occurrence and treatment of arsenic in groundwater and soil in northern Mexico and southwestern USA. *Chemosphere* 83(3): 211-225. [*Pteris vittata*]
134. Champion, B. B. & J. F. Venzke. 2011. Spatial patterns and determinants of wetland vegetation distribution in the Kumasi Metropolis, Ghana. *Wetlands Ecology and Management* 19(5): 423-431. [*Thelypteris palustris*]
135. Cano, A., A. Delgado, W. Mendoza, H. Trinidad, P. Gonzales, M. I. La Torre, M. Chanco, H. Aponte, J. Roque, N. Valencia & E. Navarro. 2011. Flora and vegetation on cryoturbated and associates habitats around Abra Apacheta, Ayacucho - Huancavelica (Peru). *Revista Peruana de Biología* 18(2): 169-178.
136. Cantrill, D., A. M. Tosolini & J. Francis. 2011. Paleocene flora from Seymour Island, Antarctica: revision of Dusen's (1908) pteridophyte and conifer taxa. *Alcheringa* 35(2): 309-328. [*Cladophlebis aemulans*, *Cladophlebis seymourensis*, *Sphenopteris angustiloba*]
137. Cao, J. G., X. F. Dai & Q. X. Wang. 2011. Archegonial development and oogenesis of the fern *Plagiogyria euphlebia* and their phylogenetic significance. *American Fern Journal* 101: 231-240.
138. Cao, J. G., X. F. Dai, X. G. Li & Q. X. Wang. 2011. Gametophyte development and sporophyte formation of the fern *Osmunda japonica* in two culture media. *Botanica Boreali-Occidentalia Sinica*. 31(7): 1297-1302. [Chinese, English abstract].
139. Capuana, M. 2011. Heavy metals and woody plants - biotechnologies for phytoremediation. *Iforest-Biogeosciences and Forestry* 4: 7-15.
140. Carlquist, S. & E. L. Schneider. 2011. *Equisetum* xylem: SEM studies and their implications. *American Fern Journal* 101(3): 133-141.
141. Carpenter, R. J., M. P. Goodwin, R. S. Hill & K. Kanold. 2011. Silcrete plant fossils from Lightning Ridge, New South Wales: new evidence for climate change and monsoon elements in the Australian Cenozoic. *Australian Journal of Botany* 59(5): 399-425. [*Gleichenia*, *Lygodium*]
142. Carrapiço, F. 2011. Azolla in the Iberian Peninsula: causes, 3. Consequences and a management strategy for its control. 1ª Reunião Ibérica sobre Plantas Invasoras - Rumo a uma estratégia de investigação convergente. Livro de resúmenes, p. 4. Vigo, May 12, 13 e 14.
143. Carrapiço, F. 2011. Development and environmental impacts of *Azolla filiculoides* in the Iberian Peninsula under the climatic changes. 7th Symposium for European Fresh Water Sciences. Girona, June 27 – July 1. Abstract Book, p. 42. Editor: AIL, Asociación Iberica de Limnología. ISBN 978-84-937882-2-3.
144. Carrapiço, F., R. Santos & A. Serrano. 2011. First occurrence of *Stenopelmus rufinasus* Gyllenhal 1835 (Coleoptera: Eriirhinidae) in Portugal. *The Coleopterists Bulletin* 65(4): 436-437. (Azolla)
145. Carrier, M., A. Loppinet-Serani, C. Absalon, F. Marias, C. Aymonier & M. Mench. 2011. Conversion of fern (*Pteris vittata* L.) biomass from a phytoremediation trial in sub- and supercritical water conditions. *Biomass and Bioenergy* 35(2): 872-883.
146. Carrier, M., A. Loppinet-Serani, D. Denux, J. M. Lasnier, F. Ham-Pichavant, F. Cansell & C. Aymonier. 2011. Thermogravimetric analysis as a new method to determine the lignocellulosic composition of biomass. *Biomass and Bioenergy* 35(1): 298-307. [*Pteris vittata*]
147. Carrizo, M. A., G. M. Del Fueyo & S. Archangelsky. 2011. Morphology and anatomy of a fern growing under stress conditions from the Aptian of Santa Cruz, Argentina. *Ameghiniana* 48(4): 605-617.
148. Carro, F., R. C. Soriguer, J. F. Beltran & A. C. Andreu. 2011. Heavy flooding effects on home range and habitat selection of free-ranging Iberian hares (*Lepus granatensis*) in Donana National Park (SW Spain). *Acta Theriologica* 56(4): 375-382. [*Pteridium aquilinum*]

149. Casarin Rochelle, A. L., R. Cielo-Filho & F. R. Martins. 2011. Tree community structure in an Atlantic forest fragment at Serra do Mar State Park, southeastern Brazil. *Biota Neotropica* 11(2): 337-346. [tree ferns]
150. Cassinis, G. 2011. A Permian look of the "Three Brescian Valleys Massif" (northern Italy). *Atti Ticinensi di Scienze della Terra, Special issue*: 13-25. [*Schizopteris*, *Sphenopteris*]
151. Castandet, B. & A. Araya. 2011. RNA editing in plant organelles. Why make it easy? *Biochemistry (Moscow)* 76(8): 924-931.
152. Castaneda Sortibran, A. N., M. G. Ordaz Tellez, A. Andrade-Cetto, C. Segal Kischinevzky & R. Rodriguez-Arnaiz. 2011. Antimutagenic activity of two medicinal phytoextracts in somatic cells of *Drosophila melanogaster*. *Pharmaceutical Biology* 49(6): 640-647. [*Equisetum myriochaetum*]
153. Catorci, A., A. Vitanzi & F. M. Tardella. 2011. Variations in CSR strategies along stress gradients in the herb layer of submediterranean forests (central Italy). *Plant Ecology and Evolution* 144(3): 299-306. [*Pteridium aquilinum*]
154. Chakraborti, K. 2011. Rare and endangered ferns in mango agro-ecosystems of Gangetic West Bengal. Global Conference on Augmenting Production and Utilization of Mango: Biotic and Abiotic Stresses. June 21-24, 2011 at CISH, Lucknow. Abstract p. 15.
155. Chang, H.M., P. F. Lu, T. C. Hsu & W. L. Chiou. 2011. *Selaginella devolii* (Selaginellaceae), a new species from Taiwan. *Blumea* 56: 21-23.
156. Channing, A., A. Zamuner, D. Edwards & D. Guido. 2011. *Equisetum thermale* sp. nov. (Equisetales) from the Jurassic San Agustin hot spring deposit, Patagonia: anatomy, paleoecology, and inferred paleoecophysiology. *American Journal of Botany* 98(4): 680-697.
157. Chao, J. H. & C. Y. Chuang. 2011. Accumulation of radium in relation to some chemical analogues in *Dicranopteris linearis*. *Applied Radiation and Isotopes* 69(1): 261-267.
158. Chater, C., Y. Kamisugi, M. Movahedi, A. Fleming, A. C. Cuming, J. E. Gray & D. J. Beerling. 2011. Regulatory mechanism controlling stomatal behavior conserved across 400 million years of land plant evolution. *Current Biology* 21(12): 1025-1029.
159. Chauhan, D. K. & C. Kumar. 2011. Recording biodiversity wealth of a tropical sub-humid region of India. *Proceedings of the Indian National Science Academy Part B Biological Sciences* 81(3): 299-316.
160. Chen, F., D. Tholl, J. Bohlmann & E. Pichersky. 2011. The family of terpene synthases in plants: a mid-size family of genes for specialized metabolism that is highly diversified throughout the kingdom. *Plant Journal* 66(1): 212-229. [*Selaginella moellendorffii*]
161. Chen, H., J. Liu, K. Wang & W. Zhang. 2011. Spatial distribution of rock fragments on steep hillslopes in karst region of northwest Guangxi, China. *Catena* 84(1-2): 21-28. [*Pteridium aquilinum*]
162. Chen, H., N. Wu, Y. Wang, Y. Gao & C. Peng. 2011. Methane fluxes from alpine wetlands of Zoige plateau in relation to water regime and vegetation under two scales. *Water Air and Soil Pollution* 217(1-4): 173-183. [*Equisetum fluviatile*]
163. Chen, J., X. Chen, Y. Lei, H. Wei, C. Xiong, Y. Liu, W. Fu & J. Ruan. 2011. Vascular protective potential of the total flavanol glycosides from *Abacopteris penangiana* via modulating nuclear transcription factor- κ B signaling pathway and oxidative stress. *Journal of Ethnopharmacology* 136(1): 217-223.
164. Chen, J., Y. Lei, Y. Liu, C. Xiong, W. Fu & J. Ruan. 2011. Extract of *Cyclosorus acuminatus* attenuates diabetic nephropathy in mice via modifying peroxisome proliferators activated receptor signalling pathway. *Food Chemistry* 128(3): 659-666.
165. Chen, L. L., L. H. Lei, P. H. Ding, Q. Tang & Y. M. Wu. 2011. Osteogenic effect of *Drynariae* rhizoma extracts and Naringin on MC3T3-E1 cells and an induced rat alveolar bone resorption model. *Archives of Oral Biology* 56(12): 1655-1662.

166. Chen, S. B., G. M. Jiang, Z. Y. Ouyang, W. H. Xu & Y. Xiao. 2011. Relative importance of water, energy, and heterogeneity in determining regional pteridophyte and seed plant richness in China. *Journal of Systematics and Evolution* 49(2): 95-107.
167. Chen, X. Y., Y. D. Qi, J. H. Wei, Z. Zhang, D. L. Wang, J. D. Feng & B. C. Gan. 2011. Molecular identification of endophytic fungi from medicinal plant *Huperzia serrata* based on rDNA ITS analysis. *World Journal of Microbiology and Biotechnology* 27(3): 495-503.
168. Chen, X., Y. X. Zhang, Y. P. Zhang, J. Ji & J. Z. Lin. 2011. Influence of temperature on development of *Bdella tropica* Atyeo (Acari: Bdellidae) with *Tetranychus urticae* Koch (Acari: Tetranychidae) as its prey. *International Journal of Acarology* 37(1): S34-39. [*Dicranopteris pedata*]
169. Cheng, H. M. 2011. Geographical composition of vascular plants in Dashu Mountain in Hefei, Anhui Province. *Plant Science Journal* 29(3): 288-295.
170. Cheng, Y. M. 2011. A new species of *Ashicaulis* (Osmundaceae) from the Mesozoic of China: A close relative of living *Osmunda claytoniana* L. *Review of Palaeobotany and Palynology* 165(1-2): 96-102.
171. Cheshier, J. C., R. M. Wersal & J. D. Madsen. 2011. The susceptibility of duckweed (*Lemna minor* L.) to fluridone and penoxsulam. *Journal of Aquatic Plant Management* 49: 50-52. [*Salvinia molesta*]
172. Chiarucci, A., G. Bacaro, K. A. Triantis & J. M. Fernández-Palacios. 2011. Biogeographical determinants of pteridophytes and spermatophytes on oceanic archipelagos. *Systematics and Biodiversity* 9(3): 191-201.
173. Chmura, D., T. Molenda, A. Blonska & G. Wozniak. 2011. Sites of leachate inflows on coalmine heaps as refuges of rare mountainous species. *Polish Journal of Environmental Studies* 20(3): 551-557. [*Equisetum telmateia*]
174. Christenhusz, M. J. M. & H. Schneider. 2011. Corrections to *Phytotaxa* 19: Linear sequence of lycophytes and ferns. *Phytotaxa* 28: 50-52.
175. Christenhusz, M. J. M. 2011. Proposal to conserve *Blechnum hawaiianum* against *B. norfolkense* (Blechnaceae, Pteridophyta). *Taxon* 60: 1772.
176. Christenhusz, M. J. M. 2011. Validation of *Anemia lepigera* (Anemiaceae). *Phytotaxa* 31: 59.
177. Christenhusz, M. J. M., M. W. Chase & M. F. Fay. 2011. Preface to "Linear sequence, classification, synonymy, and bibliography of vascular plants: Lycophytes, ferns, gymnosperms and angiosperms". *Phytotaxa* 19: 4-6.
178. Christenhusz, M. J. M., X. C. Zhang & Schneider, H. 2011. A linear sequence of extant families and genera of lycophytes and ferns. *Phytotaxa* 19: 7-54.
179. Chung, C. H. 2011. Holocene vegetation dynamics and its climatic implications inferred from pollen record in Boseong area, South Korea. *Geosciences Journal* 15(3): 257-264.
180. Cicchetti, G. & H. Greening. 2011. Estuarine biotope mosaics and habitat management goals: an application in Tampa Bay, FL, USA. *Estuaries and Coasts* 34(6): 1278-1292. [*Acrostichum*]
181. Clarkson, B. R., M. C. Smale, P. A. Williams, S. K. Wiser & R. P. Buxton. 2011. Drainage, soil fertility and fire frequency determine composition and structure of gumland heaths in northern New Zealand. *New Zealand Journal of Ecology* 35(1): 96-113. [*Gleichenia dicarpa*]
182. Cleal, C. J., S. Oplustil, B. A. Thomas & Y. Tenchov. 2011. Pennsylvanian vegetation and climate in tropical Variscan Euramerica. *Episodes* 34(1): 3-12.
183. Cleavitt, N. L., T. J. Fahey & J. J. Battles. 2011. Regeneration ecology of sugar maple (*Acer saccharum*): seedling survival in relation to nutrition, site factors, and damage by insects and pathogens. *Canadian Journal of Forest Research* 41(2): 235-244. [*Dryopteris carthusiana*]
184. Coates, J. C., L. A. Moody & Y. Saidi. 2011. Plants and the Earth system - past events and future challenges. *New Phytologist* 189(2): 371-373. [*Selaginella moellendorffii*]
185. Coelho, C. B. & L. M. Esteves. 2011. Spore morphology of *Serpocaulon* A.R.Sm. and related taxa from Brazil (Polypodiaceae). *Grana* 50(3): 165-181.

186. Coetzee, J. A., M. P. Hill, M. J. Byrne & A. Bownes. 2011. A review of the biological control programmes on *Eichhornia crassipes* (C.Mart.) Solms (Pontederiaceae), *Salvinia molesta* D.S.Mitch. (Salviniaceae), *Pistia stratiotes* L. (Araceae), *Myriophyllum aquaticum* (Vell.) Verdc. (Haloragaceae) and *Azolla filiculoides* Lam. (Azollaceae) in South Africa. *African Entomology* 19(2): 451-468.
187. Collett, N. D. & R. G. Carter. 2011. Stereoselective synthesis of the eastern quinolizidine portion of himeradine A. *Organic Letters* 13(15): 4144-4147. [*Lycopodium chinense*]
188. Colombi, C. E., I. P. Montanez & J. T. Parrish. 2011. Floral carbon isotopic record, Ischigualasto Formation (Upper Triassic), northwest of Argentina: paleoatmospheric implications. *Revista Brasileira de Paleontologia* 14(1): 39-50. [*Xylopteris*]
189. Conti, F., F. Bartolucci, M. Iocchi & D. Tinti. 2011. Atlas of the pteridological knowledge of Abruzzo (Central Italy). *Webbia* 66(2): 251-305.
190. Cook, E. J., B. van Geel, S. van der Kaars & J. van Arkel. 2011. A review of the use of non-pollen palynomorphs in palaeoecology with examples from Australia. *Palynology* 35(2): 155-178.
191. Costa, J. T., D. A. Estevan, E. Bianchini & I. C. de Batista Fonseca. 2011. Floristic composition of the vascular species and tree flora successional character in a seasonal semideciduous forest remnant in Southern Brazil. *Revista Brasileira de Botanica* 34(3): 411-422.
192. Courtwright, J. & S. E. G. Findlay. 2011. Effects of microtopography on hydrology, physicochemistry, and vegetation in a tidal swamp of the Hudson River. *Wetlands* 31(2): 239-249. [*Osmunda regalis*]
193. Coutris, C., G. Merlina, J. Silvestre, E. Pinelli & A. Elger. 2011. Can we predict community-wide effects of herbicides from toxicity tests on macrophyte species? *Aquatic Toxicology* 101(1): 49-56. [*Azolla filiculoides*]
194. Coyne, J. A. 2011. Speciation in a small space. *Proceedings of the National Academy of Sciences of the United States of America* 108(32): 12975-12976. [*Asplenium*, *Grammitis*, *Polystichum*]
195. Crank, W. D. & J. H. Peck. 2011. Hardy ferns of Garvan Woodland Gardens, Hot Springs, AR. *Fiddlehead Forum* 38(4): 25-32.
196. Creese, C., A. Lee & L. Sack. 2011. Drivers of morphological diversity and distribution in the Hawaiian fern flora: trait associations with size, growth form, and environment. *American Journal of Botany* 98(6): 956-966.
197. Croel, R. C. & J. M. Kneitel. 2011. Cattle waste reduces plant diversity in vernal pool mesocosms. *Aquatic Botany* 95(2): 140-145. [*Marsilea vestita*]
198. Crotty, F. V., R. P. Blackshaw & P. J. Murray. 2011. Tracking the flow of bacterially derived C-13 and N-15 through soil faunal feeding channels. *Rapid Communications in Mass Spectrometry* 25(11): 1503-1513. [*Pteridium*]
199. Crouch, N. & Burrows, J. 2011. Pteridophyta new pteridophyte records for the flora of Swaziland. *Bothalia* 41(1): 181-183.
200. Crouch, N. R. & J. Wesley-Smith. 2011. Pteridophyta-Marsileaceae *Pilularia dracomontana*, a new species of pillwort from the Kwazulu-Natal Drakensberg, South Africa. *Bothalia* 41(1): 201-204.
201. Crouch, N. R. 2011. Pteridophyta-Thelypteridaceae *Metathelypteris burrowsiorum*, a new species from Swaziland and a first genus record for Southern Africa. *Bothalia* 41(1): 193-196.
202. Crow, W. E., M. R. Mack, H. L. Diamond & L. J. Swatzell. 2011. Narrow substrate niche of *Cheilanthes lanosa*, the hairy lip fern, is determined by carbohydrate and lipid contents in gametophytes. *American Fern Journal* 101(2): 57-69.
203. Cui, B. S., Q. He & Y. An. 2011. Community structure and abiotic determinants of salt marsh plant zonation vary across topographic gradients. *Estuaries and Coasts* 34(3): 459-469. [*Equisetum arvense*]

204. Cwalina-Ambroziak, B. & M. K. Nowak. 2011. Fungi colonizing the soil and roots of tomato (*Lycopersicon esculentum* Mill.) plants treated with biological control agents. *Acta Agrobotanica* 64(3): 87-92. [*Equisetum arvense*]
205. Cybulska, P., S. D. Thakur, B. C. Foster, I. M. Scott, R. I. Leduc, J. T. Arnason & J. A. R. Dillon. 2011. Extracts of Canadian first nations medicinal plants, used as natural products, inhibit *Neisseria gonorrhoeae* isolates with different antibiotic resistance profiles. *Sexually Transmitted Diseases* 38(7): 667-671. [*Equisetum arvense*]
206. da Costa, R. M. G., P. A. Oliveira, M. Vilanova, M. M. S. M. Bastos, C. C. Lopes & C. Lopes. 2011. Ptaquiloside-induced, B-cell lymphoproliferative and early-stage urothelial lesions in mice. *Toxicol* 58(6-7): 543-549. [*Pteridium aquilinum*]
207. da Luz, C. F. P., O. M. Barth, L. Martin, C. G. Silva & B. J. Turcq. 2011. Palynological evidence of the replacement of the hygrophilous forest by field vegetation during the last 7,000 years BP in the northern coast of Rio de Janeiro, Brazil. *Anais da Academia Brasileira de Ciencias* 83(3): 939-951.
208. da Rocha, M. D., F. P. Dias Viegas, H. C. Campos, P. C. Nicastro, P. C. Fossaluzza, C. A. Manssour Fraga, E. J. Barreiro & C. Viegas, Jr. 2011. The role of natural products in the discovery of new drug candidates for the treatment of neurodegenerative disorders II: Alzheimer's disease. *CNS & Neurological Disorders-Drug Targets* 10(2): 251-270. [*Huperzia serrata*]
209. da Silva, V. S., A. C. da Silva Candido, C. Muller, V. A. Laura, O. Faccende, E. Simionatto, S. C. Hess & M. T. Lopes Pereira Peres. 2011. Phytotoxic potential of *Dicranopteris flexuosa* (Schrad.) Underw. (Gleicheniaceae). *Acta Botanica Brasilica* 25(1): 95-104.
210. Dai, F. Z., D. Xu & H. B. Deng. 2011. Species composition and minimum sampling area of a riparian mixed broadleaved-Korean pine forest in Changbai Mountain Nature Reserve. *Journal of Forestry Research* 22(3): 471-474.
211. Dai, L. & C. Weng. 2011. A survey on pollen dispersal in the western Pacific Ocean and its paleoclimatological significance as a proxy for variation of the Asian winter monsoon. *Science China-Earth Sciences* 54(2): 249-258.
212. Dai, X. L., X. G. Li, Y. Zhang & Q. X. Wang. 2011. Chlorophyll fluorescence analysis of hermaphrodite and male gametophytes from *Ceratopteris thalictroides* (L.) Brongn. on different media. *Bulletin of Botanical Research* 31(3): 289-292.
213. Dai, X. L., S. S. Wang, J. G. Cao & Q. X. Wang. 2011. Morphogenesis and development of *Gonocormus minutus* (Blume) Bosch spore (Hymenophyllaceae). *Bulletin of Botanical Research*, 31(6): 659-663.
214. Daly, R. J., D. W. Jolley & R. A. Spicer. 2011. The role of angiosperms in Palaeocene arctic ecosystems: A palynological study from the Alaskan north slope. *Palaeogeography Palaeoclimatology Palaeoecology* 309(3-4): 374-382.
215. Daly, R. J., D. W. Jolley, R. A. Spicer & A. Ahlberg. 2011. A palynological study of an extinct arctic ecosystem from the Palaeocene of northern Alaska. *Review of Palaeobotany and Palynology* 166(1-2): 107-116.
216. Daskova, J., M. Konzalova & V. Cilek. 2011. Tracing of palynomorphs in the eastern Slovakian karst. *Sbornik Narodniho Muzea v Praze Rada B Prirodni Vedy* 67(1-2): 51-62.
217. Datta, S. N. 2011. Culture of *Azolla* and its efficacy in diet of *Labeo rohita*. *Aquaculture* 310(3-4): 376-379. [herbivory]
218. Datta, S., C. M. Kim, M. Pernas, N. D. Pires, H. Proust, T. Tam, P. Vijayakumar & L. Dolan. 2011. Root hairs: development, growth and evolution at the plant-soil interface. *Plant and Soil* 346(1-2): 1-14.
219. de Assis, A. M., L. K. Unemoto, L. Y. Yamamoto, A. B. Lone, G. R. Batista de Souza, R. T. de Faria, S. R. Roberto & L. S. Assari Takahashi. 2011. Orchid cultivation on substrates with coffee husk. *Bragantia* 70(3): 544-549. [tree fern fiber]

220. de Carvalho, M. C., W. S. Marcal, M. S. Balarin, M. S. Fortes, N. Parizotto Jr. & M. I. Camargo. 2011. Biochemical evaluation of the sialic acid as a tumoral marker in heifers raised in an endemic property for bovine enzootic hematuria. *Ciencia Animal Brasileira* 12(2): 306-310. [*Pteridium aquilinum*]
221. de Gasper, A. L., L. Sevegnani, A. C. Vibrans, A. Uhlmann, D. V. Lingner, M. Verdi, S. Dreveck, A. Stival-Santos, E. Brogni, R. Schmitt & G. Klemz. 2011. Inventory of *Dicksonia sellowiana* Hook. in Santa Catarina. *Acta Botanica Brasílica* 25(4): 776-784.
222. De Groot, G. A., H. J. During, J. W. Maas, H. Schneider, J. C. Vogel & R. J. Erkens. 2011. Use of rbcL and trnL-F as a two-Locus DNA barcode for identification of NW-European ferns: an ecological perspective. *Plos One* 6(1): e16371.
223. De Groot, G. A., H. Korpelainen, E. R. J. Wubs & R. Erkens. 2011. Isolation of polymorphic microsatellite markers and test of cross-amplification in four widespread European calcicole ferns. *American Journal of Botany* 98(11): e319-e322.
224. De Jussieu, B. 2011. History of a plant, known by botanists under the name of *Pilularia*. *Cahiers des Naturalistes* 57(3-4): 77,101.
225. De Ornellas, P., E. J. Milner-Gulland & E. Nicholson. 2011. The impact of data realities on conservation planning. *Biological Conservation* 144(7): 1980-1988. [*Blechnum occidentale*]
226. De Smet, I., U. Voss, S. Lau, M. Wilson, N. Shao, R. E. Timme, R. Swarup, I. Kerr, C. Hodgman, R. Bock, M. Bennett, G. Juergens & T. Beeckman. 2011. Unraveling the evolution of auxin signaling. *Plant Physiology* 155(1): 209-221. [*Selaginella moellendorffii*]
227. Decker, M. 2011. Hybrid molecules incorporating natural products: applications in cancer therapy, neurodegenerative disorders and beyond. *Current Medicinal Chemistry* 18(10): 1464-1475. [*Huperzia serrata*]
228. Deepa, J., T. R. Parashurama, M. Krishanappa & S. Nataraja. 2011. Enumeration of pteridophytes in Madhuguni Forest, Central Western Ghats, Karnataka, south India. *Indian Fern Journal* 28(1-2): 112-119.
229. DeLong, J., D. M. Hodges, R. Prange, C. Forney, P. Toivenon, M. C. Bishop, M. Elliott & M. Jordan. 2011. The unique fatty acid and antioxidant composition of ostrich fern (*Matteuccia struthiopteris*) fiddleheads. *Canadian Journal of Plant Science* 91(5): 919-930.
230. Der, J. P., M. S. Barker, N. J. Wickett, C. W. dePamphilis & P. G. Wolf. 2011. *De novo* characterization of the gametophyte transcriptome in bracken fern, *Pteridium aquilinum*. *BMC Genomics* 12(1): 99-112.
231. Derzhavina, N. M. & N. I. Shorina. 2011. On mode of rhythmological evolution of ferns. *Indian Fern Journal* 28(1-2): 7-24.
232. Derzhavina, N. M. & Z. M. Pokrovskaya. 2011. Biomorphology of sporophytes and ontogenesis of gametophytes of *Adiantum capillus-veneris* L. (Adiantaceae). *Turczaninowia* 14: 131-144. [Russian]
233. Dhir, B. & S. Srivastava. 2011. Heavy metal removal from a multi-metal solution and wastewater by *Salvinia natans*. *Ecological Engineering* 37(6): 893-896.
234. Dhir, B., P. Sharmila, P. Pardha Saradhi, S. Sharma, R. Kumar & D. Mehta. 2011. Heavy metal induced physiological alterations in *Salvinia natans*. *Ecotoxicology and Environmental Safety* 74(6): 1678-1684.
235. Diaz-Bone, R. A., M. Raabe, S. Awissus, B. Keuter, B. Menzel, K. Kueppers, R. Widmann & A. V. Hirner. 2011. Investigation of biomethylation of arsenic and tellurium during composting. *Journal of Hazardous Materials* 189(3): 653-659. [*Pteris cretica*, *Pteris vittata*]
236. Dickore, W. B. & S. Springer. 2011. New findings of Munich Flora. *Berichte der Bayerischen Botanischen Gesellschaft zur Erforschung der Heimischen Flora* 81(79-108). [*Equisetum x moorei*]

237. DiMichele, W. A., C. V. Looy & D. S. Chaney. 2011. A new genus of gigantopterid from the Middle Permian of the United States and China and its relevance to the gigantopterid concept. *International Journal of Plant Sciences* 172(1): 107-119.
238. Ding, W., R. Pang, Q. Xu, Y. Li & X. Cao. 2011. Surface pollen assemblages as indicators of human impact in the warm temperate hilly areas of eastern China. *Chinese Science Bulletin* 56(10): 996-1004. [*Selaginella sinensis*]
239. Dipu, S., A. A. Kumar & V. S. G. Thanga. 2011. Phytoremediation of dairy effluent by constructed wetland technology. *Environmentalist* 31(3): 263-278. [*Azolla*, *Salvinia*]
240. Dixit, S. & S. K. Bera. 2011. Mid-Holocene vegetation and climatic variability in tropical deciduous sal (*Shorea robusta*) forest of Lower Brahmaputra valley, Assam. *Journal of the Geological Society of India* 77(5): 419-432.
241. Dolakova, N., M. Kovacova & P. Basistova. 2011. Badenian (Langhian - Early Serravallian) palynoflora from the Carpathian Foredeep and Vienna basin (Czech and Slovak Republics). *Sbornik Narodniho Muzea v Praze Rada B Prirodni Vedy* 67(1-2): 63-71.
242. Dolby, G., H. J. Falcon-Lang & M. R. Gibling. 2011. A conifer-dominated palynological assemblage from Pennsylvanian (late Moscovian) alluvial drylands in Atlantic Canada: implications for the vegetation of tropical lowlands during glacial phases. *Journal of the Geological Society* 168(2): 571-584.
243. Dominguez, E., A. Suarez, N. Bahamonde & S. Opazo. 2011. *Botrychium dusenii* (H.Christ) Alston (Ophioglossaceae) additions to the flora of Pali Aike National Park, Region of Magallanes, southern Chile. *Gayana Botanica* 68(2): 345-349.
244. Dong, F. Y. & R. W. Jiang. 2011. Research progress of the natural products against prostate cancer. *Chinese Journal of Natural Medicines* 9(2): 81-89. [*Macrothelypteris torresiana*]
245. Dong, S. Y. 2011. Taxonomic studies on *Asplenium* sect. *Thamnopteris* (Aspleniaceae) I: cytological observations. *American Fern Journal* 101(3): 156-171.
246. Dorrrough, J., S. McIntyre & M. P. Scroggie. 2011. Individual plant species responses to phosphorus and livestock grazing. *Australian Journal of Botany* 59(7): 669-680.
247. Dotzler, N., T. N. Taylor, J. Galtier & M. Krings. 2011. *Sphenophyllum* (Sphenophyllales) leaves colonized by fungi from the Upper Pennsylvanian Grand-Croix cherts of central France. *Zitteliana Reihe A* 51(3-8).
248. Dover, J. W., A. Rescia, S. Fungarino, J. Fairburn, P. Carey, P. Lunt, C. Arnot, R. L. H. Dennis & C. J. Dover. 2011. Land-use, environment, and their impact on butterfly populations in a mountainous pastoral landscape: species richness and family-level abundance. *Journal of Insect Conservation* 15(4): 523-538. [*Pteridium aquilinum*]
249. D'Rozario, A., B. Sun, J. Galtier, S. Wang, W. Y. Guo, Y. F. Yao & C. S. Li. 2011. Studies on the Late Permian permineralized tree fern *Psaronius housuoensis* sp. nov. from Yunnan Province, southwest China. *Review of Palaeobotany and Palynology* 163(3-4): 247-263.
250. D'Rozario, A., C. Labandeira, W. Y. Guo, Y. F. Yao & C. S. Li. 2011. Spatiotemporal extension of the Euramerican *Psaronius* component community to the Late Permian of Cathaysia: *in situ* coprolites in a *P. housuoensis* stem from Yunnan Province, southwest China. *Palaeogeography Palaeoclimatology Palaeoecology* 306(3-4): 127-133.
251. Duarte, L. D. S. 2011. Phylogenetic habitat filtering influences forest nucleation in grasslands. *Oikos* 120(2): 208-215. [*Dicksonia sellowiana*]
252. Dubuisson, J. Y., S. Hennequin, S. Bary & A. Ebihara. 2011. Anatomical diversity and regressive evolution in trichomanoid filmy ferns (Hymenophyllaceae): A phylogenetic approach. *Comptes Rendus Biologies* 334(12): 880-895.
253. Dyer, A. 2011. Book review: *Fern Ecology*. *Systematic Botany* 36(2): 521-522.
254. Dzhalalova, M. I. & A. I. Kuzmichev. 2011. Structure of hydrophilic vegetation from the littoral zone of the Middle Caspian Sea. *Inland Water Biology* 4(1): 34-38. [*Salvinia natans*]

255. Ebihara, A. 2011. RbcL phylogeny of Japanese pteridophyte flora and implications on infrafamilial systematics. *Bulletin of the National Museum of Nature and Science, Series B (Botany)* 37: 63-74.
256. Ebinger, J. E., L. R. Phillippe & P. B. Marcum. 2011. Vegetation of Wilmington Shrub Prairie Nature Preserve, Will County, Illinois. *Transactions of the Illinois State Academy of Science* 104(1-2): 1-16. [*Onoclea sensibilis*]
257. Eckardt, N. A. 2011. LQY1 functions in maintenance of photosystem II. *Plant Cell* 23(5): 1684. [*Selaginella*]
258. Eiserhardt, W. L., J. G. Rohwer, S. J. Russell, J. C. Yesilyurt & H. Schneider. 2011. Evidence for radiations of cheilanthoid ferns in the Greater Cape Floristic Region. *Taxon* 60(5): 1269-1283.
259. Elena Gonzalez-Benito, M. & C. Martin. 2011. *In vitro* preservation of Spanish biodiversity. *In Vitro Cellular and Developmental Biology Plant* 47(1): 46-54.
260. Elmachliy, S., B. Chefetz, E. Tel-Or, L. Vidal, A. Canals & A. Gedanken. 2011. Removal of silver and lead ions from water wastes using *Azolla filiculoides*, an aquatic plant, which adsorbs and reduces the ions into the corresponding metallic nanoparticles under microwave radiation in 5 min. *Water Air and Soil Pollution* 218(1-4): 365-370.
261. Engler, R., C. F. Randin, W. Thuiller, S. Dullinger, N. E. Zimmermann, M. B. Araujo, P. B. Pearman, G. Le Lay, C. Piedallu, C. H. Albert, P. Choler, G. Coldea, X. de Lamo, T. Dirnbock, J. C. Gegout, D. Gomez-Garcia, J. A. Grytnes, E. Heegaard, F. Hoistad, D. Nogues-Bravo, S. Normand, M. Puscas, M. T. Sebastia, A. Stanisci, J. P. Theurillat, M. R. Trivedi, P. Vittoz & A. Guisan. 2011. 21st century climate change threatens mountain flora unequally across Europe. *Global Change Biology* 17(7): 2330-2341.
262. Ernandes, P., L. Beccarisi & V. Zuccarello. 2011. A new species of *Isoetes*. *Informatore Botanico Italiano* 43(1): S155-156. [*Isoetes iapygia*]
263. Escapa, I. H., E. L. Taylor, R. Cuneo, B. Bomfleur, J. Bergene, R. Serbet & T. N. Taylor. 2011. Triassic floras of Antarctica: plant diversity and distribution in high paleolatitude communities. *Palaios* 26(9-10): 522-544.
264. Esmailzadeh, O., S. M. Hosseini & M. Tabari. 2011. Relationship between soil seed bank and above-ground vegetation of a mixed-deciduous temperate forest in northern Iran. *Journal of Agricultural Science and Technology* 13(3): 411-424. [*Athyrium filix-femina*, *Pteris cretica*]
265. Espiñeira, J. M., E. N. Novo Uzal, L. V. G. Ros, J. S. Carrión, F. Merino, A. R. Barceló & F. Pomar. 2011. Distribution of lignin monomers and the evolution of lignification among lower plants. *Plant Biology* 13(1): 59-68.
266. Falcon-Lang, H. J., J. L. Pendleton & C. H. Wellman. 2011. Dryland plant communities in the Pennsylvanian (mid- to late Bolsovian) Winterbourne Formation of Bristol, southern Britain. Further evidence for taphonomic megabias. *Review of Palaeobotany and Palynology* 166(3-4): 268-285.
267. Fang, S., B. Xie, D. Liu & J. Liu. 2011. Effects of mulching materials on nitrogen mineralization, nitrogen availability and poplar growth on degraded agricultural soil. *New Forests* 41(2): 147-162. [*Pteridium aquilinum*]
268. Farajzadeh, H., A. Tehrani, Y. Amirarfaei, A. Pourata, N. Mansoub, Y. Khalili & M. Mohammadi. 2011. Pathological studies on the incidence of bracken-fern induced encephalomalacia in rat. *Annals of Biological Research* 2(4): 386-392. [*Pteridium*]
269. Farooq, M., K. H. M. Siddique, H. Rehman, T. Aziz, D. J. Lee & A. Wahid. 2011. Rice direct seeding: experiences, challenges and opportunities. *Soil and Tillage Research* 111(2): 87-98. [*Marsilea minuta*]
270. Farrant, J. M. & J. P. Moore. 2011. Programming desiccation-tolerance: from plants to seeds to resurrection plants. *Current Opinion in Plant Biology* 14(3): 340-345. [*Mohria caffrorum*, *Selaginella lepidophylla*]

271. Fasciano, C., G. Bruno, L. D'Aquino & F. Tommasi. 2011. Histological and biochemical characterization of tubers in *Nephrolepis cordifolia* (L.) Presl. *Informatore Botanico Italiano* 43(1): S13-14.
272. Fasciano, C., M. P. Ippolito, L. D'Aquino & F. Tommasi. 2011. Effect of some rare earths on *Nephrolepis cordifolia* its possible use in decontamination of soils polluted by lanthanides. *Informatore Botanico Italiano* 43(1): S144-145.
273. Fasciano, C., M. P. Ippolito, L. D'Aquino & F. Tommasi. 2011. The Lantanidi effect on anti-oxidant systems in *Nephrolepis cordifolia* (L.) C. Presl. *Informatore Botanico Italiano* 43(1): S28-29.
274. Fayle, T. M., A. J. Dumbrell, E. C. Turner & W. A. Foster. 2011. Distributional patterns of epiphytic ferns are explained by the presence of cryptic species. *Biotropica* 43(1): 6-7.
275. Feild, T. S., G. R. Upchurch, Jr., D. S. Chatelet, T. J. Brodribb, K. C. Grubbs, M. S. Samain & S. Wanke. 2011. Fossil evidence for low gas exchange capacities for early Cretaceous angiosperm leaves. *Paleobiology* 37(2): 195-213.
276. Feild, T. S., T. J. Brodribb, A. Iglesias, D. S. Chatelet, A. Baresch, G. R. Upchurch, Jr., B. Gomez, B. A. R. Mohr, C. Coiffard, J. Kvacek & C. Jaramillo. 2011. Fossil evidence for Cretaceous escalation in angiosperm leaf vein evolution. *Proceedings of the National Academy of Sciences of the United States of America* 108(20): 8363-8366.
277. Feng, R., C. Wei, S. Tu, S. Tang & F. Wu. 2011. Simultaneous hyperaccumulation of arsenic and antimony in Cretan brake fern: Evidence of plant uptake and subcellular distributions. *Microchemical Journal* 97(1): 38-43.
278. Feng, W. S., B. Zhu, X. K. Zheng, Y. L. Zhang, L. G. Yang & Y. J. Li. 2011. Chemical constituents of *Selaginella stautoniana*. *Chinese Journal of Natural Medicines* 9(2): 108-111.
279. Fernandez-Marin, B., F. Miguez, J. M. Becerril & J. I. Garcia-Plazaola. 2011. Dehydration-mediated activation of the xanthophyll cycle in darkness: is it related to desiccation tolerance? *Planta* 234(3): 579-588. [*Asplenium scolopendrium*, *Ceterach officinarum*]
280. Ferrandis, P., M. Bonilla & L. del Carmen Osorio. 2011. Germination and soil seed bank traits of *Podocarpus angustifolius* (Podocarpaceae): an endemic tree species from Cuban rain forests. *Revista de Biologia Tropical* 59(3): 1061-1069. [*Cyathea arborea*]
281. Feroo, E., V. Vajda, C. B. Koch, B. Peucker-Ehrenbrink & P. S. Willumsen. 2011. Multiproxy analysis of a new terrestrial and a marine Cretaceous-Paleogene (K-Pg) boundary site from New Zealand. *Geochimica Et Cosmochimica Acta* 75(2): 657-672.
282. Fiala, K., I. Tuma, P. Holub & J. Zahora. 2011. Ecological analysis of herbage layer of disturbed spruce stands in the National Nature Reserve Knehyne-Certuv Mlyn in the Beskydy Mts. *Ekologia* 30(3): 381-395. [*Athyrium distentifolium*]
283. Fiz-Palacios, O., H. Schneider, J. Heinrichs & V. Savolainen. 2011. Diversification of land plants: insights from a family-level phylogenetic analysis. *BMC Evolutionary Biology* 11: 341.
284. Fletcher, M. T., I. J. Brock, K. G. Reichmann, R. A. McKenzie & B. J. Blaney. 2011. Norsesquiterpene glycosides in bracken ferns (*Pteridium esculentum* and *Pteridium aquilinum* subsp. *wightianum*) from eastern Australia: reassessed poisoning risk to animals. *Journal of Agricultural and Food Chemistry* 59(9): 5133-5138.
285. Fletcher, M. T., K. G. Reichmann, I. J. Brock, R. A. McKenzie & B. J. Blaney. 2011. Residue potential of norsesquiterpene glycosides in tissues of cattle fed austral bracken (*Pteridium esculentum*). *Journal of Agricultural and Food Chemistry* 59(15): 8518-8523.
286. Fonseca, B. M. & C. E. de Mattos Bicudo. 2011. Phytoplankton seasonal and vertical variations in a tropical shallow reservoir with abundant macrophytes (Ninfias Pond, Brazil). *Hydrobiologia* 665(1): 229-245. [*Salvinia herzogii*]
287. Forsyth, D. M. & N. E. Davis. 2011. Diets of non-native deer in Australia estimated by macroscopic versus microhistological rumen analysis. *Journal of Wildlife Management* 75(6): 1488-1497.

288. Francescato, L. N., D. A. Quinteros, S. Bordignon, V. L. Bassani & A. T. Henriques. 2011. Physicochemical characterization for quality control of *Equisetum giganteum* L. Latin American Journal of Pharmacy 30(6): 1196-1201.
289. Franková, L. & S. C. Fry. 2011. Phylogenetic variation in glycosidases and glycanases acting on plant cell wall polysaccharides, and the detection of transglycosidase and trans- β -xylanase activities. Plant Journal 67(4): 662-681. [*Equisetum*, *Selaginella*]
290. Fraser, W. T., M. A. Sephton, J. S. Watson, S. Self, B. H. Lomax, D. I. James, C. H. Wellman, T. V. Callaghan & D. J. Beerling. 2011. UV-B absorbing pigments in spores: biochemical responses to shade in a high-latitude birch forest and implications for sporopollenin-based proxies of past environmental change. Polar Research 30:8312. [*Lycopodium annotinum*]
291. Fraser-Jenkins, C. R. 2011. A short fern-foray in Nepal. The Hardy Fern Foundation Quarterly 20(1): 25-28.
292. Fraser-Jenkins, C. R. 2011. Book review: Ferns and fern-allies of Taiwan. Indian Fern Journal 28(1-2): 215-217.
293. Fraser-Jenkins, C. R. 2011. Nepal's unknown pteridophytes, the Central Himalayan gap, and the lost work of David Don, In R. D. Singh, B. Lal, S. K. Uniyal, M. Singh, A. Kumari, S. Kumar & R. Singh (Eds.). Abstracts, International Symposium on Ferns and Fern Allies: Diversity, Bioprospection and Conservation, 10-12 November 2010: 3-4. Institute of Himalayan Bioresource Technology, Palampur & The Indian Fern Society, Chandigarh.
294. Froissard, D., F. Fons, J. M. Bessiere, B. Buatois & S. Rapior. 2011. Volatiles of French ferns and "fougere" scent in perfumery. Natural Product Communications 6(11): 1723-1726.
295. Froissard, D., F. Fons, M. Boudrie, L. Chabrol & S. Rapior. 2011. Caractères morphologiques des différents taxons de Polypodes de France métropolitaine. Poster présenté lors des 21èmes rencontres scientifiques de l'association STOLON (Association des Enseignant-chercheurs de Sciences végétales des Facultés de Pharmacie de France), 1er et 2 septembre 2011, Faculté de Pharmacie de Clermont-Ferrand.
296. Fu, S. B., J. S. Yang, J. L. Cui, Q. F. Meng, X. Feng & D. A. Sun. 2011. Multihydroxylation of ursolic acid by *Pestalotiopsis microspora* isolated from the medicinal plant *Huperzia serrata*. Fitoterapia 82(7): 1057-1061.
297. Fuentes-Ramirez, A., A. Pauchard & E. Hauenstein. 2011. Floristic composition of Andean grassland in Alto Bio-Bio National Reserve (Lonquimay-Chile) and its relationship with the grazing regimen. Gayana Botanica 68(1): 28-39.
298. Gabancho, L. R. & C. Prada. 2011. The genus *Hymenasplenium* (Aspleniaceae) in Cuba, including new combinations for the Neotropical species. American Fern Journal 101(4): 265-281.
299. Gabancho, L. R. 2011. The identity of *Asplenium macilentum* Kunze ex Klotzsch. American Fern Journal 101(3): 206-207.
300. Gabarayeva, N. I., V. V. Grigorjeva & G. Marquez. 2011. Ultrastructure and development during meiosis and the tetrad period of sporogenesis in the leptosporangiate fern *Alsophila setosa* (Cyatheaceae) compared with corresponding stages in *Psilotum nudum* (Psilotaceae). Grana 50(4): 235-261.
301. Gabriel y Galán, J. M. & G. Migliaro. 2011. Comparative study on the gametophyte morphology and development of three paramo species of *Jamesonia* (Pteridaceae, Polypodiopsida). Nordic Journal of Botany 29(2): 249-256.
302. Gabriel y Galán, J. M. 2011. Gametophyte development and reproduction of *Argyrochosma nivea* (Pteridaceae). Biologia 66(1): 50-54.
303. Gabriel y Galán, J. M., C. Prada, C. H. Roller, R. Lahoz-Beltrá & C. Martínez-Calvo. 2011. Biometry of stomata in *Blechnum* species (Blechnaceae) with some taxonomic and ecological implications for the ferns. Revista de Biología Tropical 59(1): 403-415.

304. Galic, Z., S. Orlovic, V. Vasic, V. Galovic, B. Klasnja, D. Stojanovic & V. Babic. 2011. Phytocoenological characteristics in poplar plantations in the protected region of the Central Danube Basin. *Archives of Biological Sciences* 63(3): 811-817. [*Equisetum arvense*]
305. Galtier, J., A. Ronchi & J. Broutin. 2011. Early Permian silicified floras from the Perdasdefogu Basin (SE Sardinia): comparison and bio-chronostratigraphic correlation with the floras of the Autun Basin (Massif central, France). *Geodiversitas* 33(1): 43-69. [*Psaronius*]
306. Gao, L., Y. Zhou, Z. W. Wang, Y. J. Su & T. Wang. 2011. Evolution of the rpoB-psbZ region in fern plastid genomes: notable structural rearrangements and highly variable intergenic spacers. *BMC Plant Biology* 11(1): 64-76.
307. Garcia Massini, J. L. & B. F. Jacobs. 2011. The effects of volcanism on Oligocene-age plant communities from the Ethiopian Plateau, and implications for vegetational resilience in a heterogeneous landscape. *Review of Palaeobotany and Palynology* 164(3-4): 211-222.
308. Garcia-Barriuso, M., S. Bernardos, C. Nabais, D. Pereira & F. Amich. 2011. Phytogeochemical, geographical and vulnerability study of the paleosubtropical element *Notholaena marantae* subsp. *marantae* (Sinopteridaceae) at the western edge of its range. *Biologia* 66(2): 258-265.
309. Garibotti, I. A., C. I. Pissolito & R. Villalba. 2011. Vegetation development on deglaciated rock outcrops from Glaciar Frias, Argentina. *Arctic Antarctic and Alpine Research* 43(1): 35-45.
310. Gaudio, N., P. Balandier, Y. Dumas & C. Ginisty. 2011. Growth and morphology of three forest understorey species (*Calluna vulgaris*, *Molinia caerulea* and *Pteridium aquilinum*) according to light availability. *Forest Ecology and Management* 261(3): 489-498.
311. Gaumat, S., K. Gupta, U. Bajpai & K. Mishra. 2011. Ameliorating effect of iron on lead induced phytotoxicity in *Azolla pinnata*. *Journal of Applied Bioscience* 37(2): 169-174.
312. Gautam, G., K. Sarkar, S. Mukherjee, A. Bhattacharjee & R. Mukhopadhyay. 2011. Phytochemistry and antimicrobial activity of crude extract and extracted phenols from an epiphytic fern *Arthromeris himalayensis* (Hook.) Ching. *Bioresearch Bulletin* 5: 311-315.
313. Gayathri, V., V. V. Asha, J. A. John & A. Subramoniam. 2011. Protection of immunocompromised mice from fungal infection with a thymus growth-stimulatory component from *Selaginella involvens*, a fern. *Immunopharmacology and Immunotoxicology* 33(2): 351-359.
314. Gazulha, V., M. Montu, D. D. M. Marques & C. C. Bonecker. 2011. Effects of natural banks of free-floating plants on zooplankton community in a shallow subtropical lake in southern Brazil. *Brazilian Archives of Biology and Technology* 54(4): 745-754. [*Salvinia herzogii*]
315. Gelorini, V., A. Verbeken, B. van Geel, C. Cocquyt & D. Verschuren. 2011. Modern non-pollen palynomorphs from East African lake sediments. *Review of Palaeobotany and Palynology* 164(3-4): 143-173.
316. Gerrienne, P., P. G. Gensel, C. Strullu-Derrien, H. Lardeux, P. Steemans & C. Prestianni. 2011. A simple type of wood in two early Devonian plants. *Science* 333(6044): 837.
317. Gerzon, M., B. Seely & A. MacKinnon. 2011. The temporal development of old-growth structural attributes in second-growth stands: a chronosequence study in the coastal western hemlock zone in British Columbia. *Canadian Journal of Forest Research* 41(7): 1534-1546. [*Blechnum spicant*, *Polystichum munitum*]
318. Gessert, S., J. Iriarte, R. C. Rios & H. Behling. 2011. Late Holocene vegetation and environmental dynamics of the Araucaria forest region in Misiones Province, NE Argentina. *Review of Palaeobotany and Palynology* 166(1-2): 29-37. [*Osmunda*]
319. Ghanta, R., S. Dutta & R. Mukhopadhyay. 2011. Arbuscular mycorrhizal and dark septate endophytic colonization status in a medicinally important xerophytic pteridophyte, *Selaginella bryopteris* (Linn.) Baker. *Journal of the Botanical Society of Bengal* 65(1): 79-86.
320. Ghosh, P., B. Rathinasabapathi & L. Ma. 2011. Arsenic-resistant bacteria solubilized arsenic in the growth media and increased growth of arsenic hyperaccumulator *Pteris vittata* L. *Bioresource Technology* 102(19): 8756-8761.

321. Giacosa, J. P. R., M. A. Morbelli & G. E. Giudice. 2011. Spore morphology and wall ultrastructure of *Trachypteris* species (Pteridaceae). *Plant Systematics and Evolution* 294(3-4): 227-237.
322. Giudice, G. E., J. P. R. Giacosa, M. L. Luna, A. Yañez & E. R. de la Sota. 2011. Diversidad de helechos y licófitas de la Reserva Natural Punta Lara, Buenos Aires, Argentina. *Revista de Biología Tropical* 59(3): 1037-1046. [Spanish]
323. Giudice, G. E., J. P. R. Giacosa, M. L. Luna, M., C. Macluf, M. Ponce, G. Marquez & E. R. de La Sota. 2011. Preliminary appraisal of threat degree of ferns and Lycophyta from Argentina. *Boletín de la Sociedad Argentina de Botánica* 46(1-2): 151-161.
324. Gladys Martinez, O. 2011. Morphology and distribution of the complex *Pteris cretica* L. (Pteridaceae) for the American continent. *Candollea* 66(1): 159-180.
325. Godefroid, S. 2011. Brussels, In J. G. Kelcey & N. Müller (Eds.). *Plants and habitats of European cities*. Springer, New York, NY. pp. 131-170. [*Equisetum telmateia*]
326. Godefroid, S., S. Riviere, S. Waldren, N. Boretos, R. Eastwood & T. Vanderborght. 2011. To what extent are threatened European plant species conserved in seed banks? *Biological Conservation* 144(5): 1494-1498.
327. Goetsch, C., J. Wigg, A. A. Royo, T. Ristau & W. P. Carson. 2011. Chronic over browsing and biodiversity collapse in a forest understory in Pennsylvania: results from a 60 year-old deer exclusion plot. *Journal of the Torrey Botanical Society* 138(2): 220-224.
328. Goh, K. K. T., L. Matia-Merino, D. N. Pinder, C. Saavedra & H. Singh. 2011. Molecular characteristics of a novel water-soluble polysaccharide from the New Zealand black tree fern (*Cyathea medullaris*). *Food Hydrocolloids* 25(3): 286-292.
329. Gola, E. M. & J. A. Jernstedt. 2011. Impermanency of initial cells in *Huperzia lucidula* (Huperziaceae) shoot apices. *International Journal of Plant Sciences* 172(7): 847-855.
330. Golan, K. & A. Najda. 2011. Differences in the sugar composition of the honeydew of polyphagous brown soft scale *Coccus hesperidum* (Hemiptera: Sternorrhyncha: Coccoidea) feeding on various host plants. *European Journal of Entomology* 108(4): 705-709. [*Nephrolepis biserrata*]
331. Goldsmith, G. R., L. S. Comita & S. C. Chua. 2011. Evidence for arrested succession within a tropical forest fragment in Singapore. *Journal of Tropical Ecology* 27(3): 323-326. [*Dicranopteris*]
332. Gong, H., Y. Zhang, Y. Lei, Y. Liu, G. Yang & Z. Lu. 2011. Evergreen broad-leaved forest improves soil water status compared with tea tree plantation in Ailao Mountains, southwest China. *Acta Agriculturae Scandinavica Section B Soil and Plant Science* 61(4): 384-388. [*Plagiogyria communis*]
333. Gonzales, J. & M. Kessler. 2011. A synopsis of the neotropical species of *Sticherus* (Gleicheniaceae), with descriptions of nine new species. *Phytotaxa* 31: 1-54.
334. Gonzalez, S., Y. Gilaberte, N. Philips & A. Juarranz. 2011. Fernblock, a nutraceutical with photoprotective properties and potential preventive agent for skin photoaging and photoinduced skin cancers. *International Journal of Molecular Sciences* 12(12): 8466-8475. [*Polypodium leucotomos*]
335. Gonzalez-Jurado, J. A., F. Pradas, E. S. Molina & C. de Teresa. 2011. Effect of *Phlebodium decumanum* on the immune response induced by training in sedentary university students. *Journal of Sports Science and Medicine* 10(2): 315-321.
336. Gorman, C. E., M. S. Bruton & L. D. Estes. 2011. *Macrothelypteris torresiana* (Thelypteridaceae) new to Kentucky. *Journal of the Botanical Research Institute of Texas* 5(1): 343-344.
337. Goswami, H. K. 2011. Population cytogenetic studies confirm X-Y mechanism in *Isoetes pantii* (Isoetaceae: Pteridophyta). *Bionature* 31: 13-22

338. Gressler, D. T. & M. A. Marini. 2011. Breeding biology of the stripe-tailed yellow-finch (*Sicalis Citrina*) in Central Brazilian Cerrado. *Ornitologia Neotropical* 22(3): 319-327. [*Dicranopteris flexuosa*]
339. Grewe, F., S. Herres, P. Viehoveer, M. Polsakiewicz, B. Weisshaar & V. Knoop. 2011. A unique transcriptome: 1782 positions of RNA editing alter 1406 codon identities in mitochondrial mRNAs of the lycophyte *Isoetes engelmannii*. *Nucleic Acids Research* 39(7): 2890-2902.
340. Grimsson, F., R. Zetter & C. Baal. 2011. Combined LM and SEM study of the Middle Miocene (Sarmatian) palynoflora from the Lavanttal Basin, Austria: Part I. Bryophyta, Lycopodiophyta, Pteridophyta, Ginkgophyta, and Gnetophyta. *Grana* 50(2): 102-128.
341. Griscom, B., H. Griscom & S. Deacon. 2011. Species-specific barriers to tree regeneration in high elevation habitats of West Virginia. *Restoration Ecology* 19(5): 660-670. [*Dennstaedtia punctilobula*]
342. Gubbuk, I. H. 2011. Isotherms and thermodynamics for the sorption of heavy metal ions onto functionalized sporopollenin. *Journal of Hazardous Materials* 186(1): 416-422. [*Lycopodium clavatum*]
343. Guo, W., Y. B. Song & F. H. Yu. 2011. Heterogeneous light supply affects growth and biomass allocation of the understory fern *Diplazium glaucum* at high patch contrast. *Plos One* 6(11): e27998.
344. Guo, X. S. & J. P. Chen. 2011. Structural characters of leaf epidermis in *Neolepisorus* (Polypodiaceae). *African Journal of Biotechnology* 10(83): 19415-19418.
345. Guo, Y. & D. M. Wang. 2011. Anatomical reinvestigation of *Archaeopteris macilenta* from the Upper Devonian (Frasnian) of south China. *Journal of Systematics and Evolution* 49(6): 590-597.
346. Gupta, C. S. & N. Bhardwaj. 2011. Unusual reproductive behaviour in laboratory grown gametophytes of *Actiniopteris radiata* (Sw.) Link, a medicinally important fern. *Indian Fern Journal* 28(1-2): 148-154.
347. Gutak, J. M., V. A. Antonova & D. A. Ruban. 2011. Diversity and richness of the Devonian terrestrial plants in the southeastern mountainous Altay (southern Siberia): regional versus global patterns. *Palaeogeography Palaeoclimatology Palaeoecology* 299(1-2): 240-249.
348. Haider, S., S. Nazreen, M. M. Alam, A. Gupta, H. Hamid & M. S. Alam. 2011. Anti-inflammatory and anti-nociceptive activities of ethanolic extract and its various fractions from *Adiantum capillus veneris* Linn. *Journal of Ethnopharmacology* 138(3): 741-747.
349. Halarewicz, A. 2011. Fulgoromorpha and Cicadomorpha (Hemiptera) infesting bracken (*Pteridium aquilinum*). *Polish Journal of Entomology* 80(3): 451-456.
350. Hanada, K., T. Hase, T. Toyoda, K. Shinozaki & M. Okamoto. 2011. Origin and evolution of genes related to ABA metabolism and its signaling pathways. *Journal of Plant Research* 124(4): 455-465. [*Selaginella moellendorffii*]
351. Hand, R. 2011. Supplementary notes to the flora of Cyprus VII. *Willdenowia* 41(2): 341-355. [*Marsilea aegyptiaca*]
352. Handfield, L. & D. Handfield. 2011. A new species of *Herpetogramma* (Lepidoptera, Crambidae, Spilomelinae) from eastern North America. *Zookeys* 149: 5-15. [*Polystichum acrostichoides*]
353. Handley, L., E. M. Crouch & R. D. Pancost. 2011. A New Zealand record of sea level rise and environmental change during the Paleocene-Eocene Thermal Maximum. *Palaeogeography Palaeoclimatology Palaeoecology* 305(1-4): 185-200.
354. Hanselman, J. A., M. B. Bush, W. D. Gosling, A. Collins, C. Knox, P. A. Baker & S. C. Fritz. 2011. A 370,000-year record of vegetation and fire history around Lake Titicaca (Bolivia/Peru). *Palaeogeography Palaeoclimatology Palaeoecology* 305(1-4): 201-214. [*Isoetes, Lycopodium*]

355. Hardiman, B. S., G. Bohrer, C. M. Gough, C. S. Vogel & P. S. Curtis. 2011. The role of canopy structural complexity in wood net primary production of a maturing northern deciduous forest. *Ecology* 92(9): 1818-1827. [*Pteridium aquilinum*]
356. Harmaja, H. 2011. *Printzina lagenifera* Coll. (Trentepohliales, Chlorophyta) epiphyllous in a boreal forest. *Annales Botanici Fennici* 48(2): 129-132. [*Polypodium vulgare*]
357. Harris, C. S., L. P. Beaulieu, M. H. Fraser, K. L. McIntyre, P. L. Owen, L. C. Martineau, A. Cuerrier, T. Johns, P. S. Haddad, S. A. L. Bennett & J. T. Arnason. 2011. Inhibition of advanced glycation end product formation by medicinal plant extracts correlates with phenolic metabolites and antioxidant activity. *Planta Medica* 77(2): 196-204. [*Lycopodium clavatum*]
358. Hashemi, H. 2011. Vascular cryptogam plants of the Khoshyeilagh Formation, Northern Shahrud, Eastern Alborz Ranges. *Journal of Sciences-Islamic Republic of Iran* 22(4): 335-343.
359. Hatayama, M., T. Sato, K. Shinoda & C. Inoue. 2011. Effects of cultivation conditions on the uptake of arsenite and arsenic chemical species accumulated by *Pteris vittata* in hydroponics. *Journal of Bioscience and Bioengineering* 111(3): 326-332.
360. Hatcher, P. & N. Battey. 2011. Bracken, **In** Hatcher, P. & N. Battey (Eds.). *Biological diversity: exploiters and exploited*. John Wiley, Oxford, pp. 285-300. [*Pteridium*]
361. Haugwitz, M. S. & A. Michelsen. 2011. Long-term addition of fertilizer, labile carbon, and fungicide alters the biomass of plant functional groups in a subarctic-alpine community. *Plant Ecology* 212(4): 715-726. [*Huperzia selago*]
362. Haworth, M., C. Elliott-Kingston & J. C. McElwain. 2011. Stomatal control as a driver of plant evolution. *Journal of Experimental Botany* 62(8): 2419-2423.
363. He, H. & L. Zhang. 2011. *Polystichum cavernicola*, *sp. nov.* (sect. Haplopolystichum, Dryopteridaceae) from a karst cave in Guizhou, China and its phylogenetic affinities. *Botanical Studies* 52(1): 121-127.
364. He, J., C. Huang, F. Wan & J. Guo. 2011. Invasion and distribution of *Cabomba caroliniana* in wetlands of Jiangsu, China. *Chinese Journal of Applied and Environmental Biology* 17(2): 186-190. [*Salvinia natans*, *Azolla imbricata*]
365. He, L., Z. X. Liu, J. Zhu, X. T. Li, Q. H. Chen & L. Z. Xiong. 2011. Isolation and molecular identification of endophytic fungi JSM 10 from *Huperzia crispate*. *Journal of Jishou University, Natural Sciences Edition* 32(3): 78-81.
366. He, M., Q. Hu, A. Luo, C. Mao, Q. Zhu, K. Pan & Q. Li. 2011. Assessment of constructed wetland plant biomass for energy utilization. *Chinese Journal of Applied and Environmental Biology* 17(4): 527-531. [*Nephrolepis auriculata*]
367. He, R. R., B. Tsoi, Y. F. Li, X. S. Yao & H. Kurihara. 2011. The anti-stress effects of Guangdong herbal tea on immunocompromise in mice loaded with restraint stress. *Journal of Health Science* 57(3): 255-263. [*Lygodium japonicum*]
368. He, X., N. Ji, X. Xiang, P. Luo & J. Bao. 2011. Purification, characterization, and molecular cloning of a novel antifungal lectin from the roots of *Ophioglossum pedunculosum*. *Applied Biochemistry and Biotechnology* 165(7-8): 1458-1472.
369. Hearn, S. M., J. R. Healey, M. A. McDonald, A. J. Turner, J. L. G. Wong & G. B. Stewart. 2011. The repeatability of vegetation classification and mapping. *Journal of Environmental Management* 92(4): 1174-1184. [*Pteridium aquilinum*]
370. Hecht, J., F. Grewe & V. Knoop. 2011. Extreme RNA editing in coding islands and abundant microsatellites in repeat sequences of *Selaginella moellendorffii* mitochondria: The root of frequent plant mtDNA recombination in early tracheophytes. *Genome Biology and Evolution* 3:344-358.
371. Herloff, B. 2011. Additions to the flora of Vastergotland, SW Sweden. *Svensk Botanisk Tidskrift* 105(1): 31-47. [*Polystichum aculeatum*, *Polystichum lonchitis*]

372. Herman, A. B. 2011. Arman' Flora of the Magadan region and development of floras in the North Pacific during the Albian-Paleocene. *Stratigraphy and Geological Correlation* 19(1): 71-86.
373. Higgins, M. A., K. Ruokolainen, H. Tuomisto, N. Llerena, G. Cardenas, O. L. Phillips, R. Vasquez & M. Rasanen. 2011. Geological control of floristic composition in Amazonian forests. *Journal of Biogeography* 38(11): 2136-2149.
374. Hill, J. P., M. J. Germino & D. A. Alongi. 2011. Carbon-use efficiency in green sinks is increased when a blend of apoplastic fructose and glucose is available for uptake. *Journal of Experimental Botany* 62(6): 2013-2022. [*Ceratopteris richardii*]
375. Hincapié, C. A., Z. Monsalve, K. Parada, C. Lamilla, J. Alarcón & C. L. Céspedes. 2011. Mite growth regulatory activity of *Blechnum chilense* (Kaulf.) Mett. *Planta Medica* 77(12): 1257.
376. Hincapie, C. A., Z. Monsalve, D. S. Seigler, J. Alarcón & C. L. Céspedes. 2011. Antioxidant activity of *Blechnum chilense* (Kaulf.) Mett., *Curcuma domestica* Valetton and *Tagetes verticillata* Lag. & Rodriguez. *Boletín Latinoamericano y del Caribe de Plantas Medicinales y Aromaticas* 10(4): 315-324.
377. Hincapié, C. A., Z. Monsalve, D. S. Seigler, J. Alarcón & C. L. Céspedes. 2011. Antioxidant activity of *Blechnum chilense* (Kaulf.) Mett., *Curcuma domestica* Valetton and *Tagetes verticillata* Lag. & Rodriguez. *Boletín Latinoamericano y del Caribe de Plantas Medicinales y Aromaticas* 10(4): 315-324.
378. Hincapié, C. A., Z. Monsalve, K. Parada, C. Lamilla, J. Alarcón, C. L. Céspedes & D. S. Seigler. 2011. Insect growth regulatory activity of *Blechnum chilense*. *Natural Product Communications* 6(8): 1085-1088.
379. Hirai, R. Y., G. Rouhan, P. H. Labiak, T. A. Ranker & J. Prado. 2011. *Moranopteris*, a new neotropical genus of grammitid ferns (Polypodiaceae) segregated from Asian *Micropolypodium*. *Taxon* 60: 1123-1137.
380. Hirasawa, Y., A. Astulla, M. Shiro & H. Morita. 2011. Lycotetrastine A, a novel hexacyclic alkaloid from *Huperzia tetrasticha*. *Tetrahedron Letters* 52(32): 4126-4128.
381. Holdaway, R. J., S. J. Richardson, I. A. Dickie, D. A. Peltzer & D. A. Coomes. 2011. Species- and community-level patterns in fine root traits along a 120 000-year soil chronosequence in temperate rain forest. *Journal of Ecology* 99(4): 954-963.
382. Holl, K. D., R. A. Zahawi, R. J. Cole, R. Ostertag & S. Cordell. 2011. Planting seedlings in tree islands versus plantations as a large-scale tropical forest restoration strategy. *Restoration Ecology* 19(4): 470-479. [*Pteridium arachnoideum*]
383. Hooper, E. A., G. Yatskievych, L. Huiet, M. D. Windham & K. M. Pryer. 2011. Into or out of Africa? What do molecular data reveal about the identity and biogeographical origin of *Aleuritopteris farinosa* (Forssk.) Fee (Pteridaceae)? BSA meeting, St. Louis, MO.
384. Horrocks, J. R. 2011. Comparison of the genus *Dryopteris* of northern India and the Himalaya with native and cultivated species in North America. *Indian Fern Journal* 28(1-2): 206-213.
385. Hoscilo, A., S. E. Page, K. J. Tansey & J. O. Rieley. 2011. Effect of repeated fires on land-cover change on peatland in southern Central Kalimantan, Indonesia, from 1973 to 2005. *International Journal of Wildland Fire* 20(4): 578-588.
386. Houdeshell, H., R. L. Friedrich & S. M. Philpott. 2011. Effects of prescribed burning on ant nesting ecology in oak savannas. *American Midland Naturalist* 166(1): 98-111. [*Pteridium aquilinum*]
387. Hovenkamp, P. 2011. A new name for *Selliguea cruciformis* (Ching) Fraser Jenkins from Thailand. *Edinburg Journal of Botany* 68(2): 1-3.
388. Hovenkamp, P. 2011. A new species of *Selliguea* (Polypodiaceae) from Thailand. *Edinburgh Journal of Botany* 68(2): 265-267.

389. Hovenkamp, P. H., C. R. Fraser-Jenkins, H. Schneider & X. C. Zhang. 2011. Proposal to conserve *Lepisorus* against *Belvisia*, *Lemmaphyllum*, *Paragramma*, *Drymotaenium* & *Neocheiropteris* (Pteridophyta, Polypodiaceae). *Taxon* 60(2): 591-592.
390. Hsu, C. K., M. H. Liao, Y. T. Tai, S. H. Liu, K. L. Ou, H. W. Fang, I. J. Lee & R. M. Chen. 2011. Nanoparticles prepared from the water extract of Gusuibu (*Drynaria fortunei* J. Sm.) protects osteoblasts against insults and promotes cell maturation. *International Journal of Nanomedicine* 6: 1405-1413.
391. Hua, Z., C. Zou, S. H. Shiu & R. D. Vierstra. 2011. Phylogenetic comparison of F-Box (FBX) gene superfamily within the plant kingdom reveals divergent evolutionary histories indicative of genomic drift. *PLoS One* 6(1): e16219. [*Selaginella moellendorffii*]
392. Huang, A. K., N. Li, A. Guenther, J. Greenberg, B. Baker, M. Graessli & J. H. Bai. 2011. Investigation on emission properties of biogenic VOCs of landscape plants in Shenzhen. *Chinese Journal of Environmental Science* 32(12): 3555-3559. [tree ferns]
393. Huang, D., L. Wu, J. R. Chen & L. Dong. 2011. Morphological plasticity, photosynthesis and chlorophyll fluorescence of *Athyrium pachyphlebium* at different shade levels. *Photosynthetica* 49(4): 611-618.
394. Huang, W. J., J. G. Cao & Q. X. Wang. 2011. Microstructural observations on the development of gametophytes and oogenesis in the fern *Pteridium aquilinum* var. *latiusculum*. *Bulletin of Botanical Research* 31: 159-163. [Chinese, English abstract].
395. Huang, Y., M. Hatayama & C. Inoue. 2011. Characterization of As efflux from the roots of As hyperaccumulator *Pteris vittata* L. *Planta* 234(6): 1275-1284.
396. Huang, Y.M., Y. C. Liu, P. F. Lu & W. L. Chiou. 2011. Gametophytes and young sporophytes of *Pentarhizidium orientalis* (Hook.) Hayata (Onocleaceae), a rare fern in Taiwan. *International Journal of Plant Reproductive Biology* 3: 7-14.
397. Huang, Y.M., Y. D. Hsu, T. H. Hsieh, H. M. Chou & W. L. Chiou. 2011. Three *Pteris* species (Pteridaceae: Pteridophyta) reproduce by apogamy. *Botanical Studies* 52: 79-87.
398. Huebers, M. & H. Kerp. 2011. The genus *Fryopsis* Wolfe (al. *Cardiopteris* Schimper): a taxonomic revision. *Review of Palaeobotany and Palynology* 167(3-4): 230-241.
399. Huebers, M., B. Bomfleur & H. Kerp. 2011. Dispersed lycopsid cuticles from the Mississippian of Chemnitz (Saxony, Germany), and their implications for the affinity of the putative earliest conifer and for lycopsid palaeoecology. *Review of Palaeobotany and Palynology* 167(1-2): 10-15.
400. Hulsey, T. & A. J. Meier. 2011. A record of *Cyrtomium fortunei* J. Sm. in Kentucky with comments on the spread of this exotic species in the southeastern United States. *Castanea* 76(4): 427-428.
401. Hunt, H. V., S. W. Ansell, S. J. Russell, H. Schneider & J. C. Vogel. 2011. Dynamics of polyploid formation and establishment in the allotetraploid rock fern *Asplenium majoricum*. *Annals of Botany* 108(1): 143-157.
402. Hunt, J. & B. Bhushan. 2011. Nanoscale biomimetics studies of *Salvinia molesta* for micropattern fabrication. *Journal of Colloid and Interface Science* 363(1): 187-192.
403. Hunyadi, A., D. W. Chuang, B. Danko, M. Y. Chiang, C. L. Lee, H. C. Wang, C. C. Wu, F. R. Chang & Y. C. Wu. 2011. Direct semi-synthesis of the anticancer lead-drug protoapigenone from apigenin, and synthesis of further new cytotoxic protoflavone derivatives. *PLoS One* 6(8): e23922. [*Macrothelypteris torresiana*]
404. Huotari, N., E. Tillman-Sutela & E. Kubin. 2011. Ground vegetation has a major role in element dynamics in an ash-fertilized cut-away peatland. *Forest Ecology and Management* 261(11): 2081-2088. [*Equisetum arvense*]
405. Hussain, I., A. Bano & F. Ullah. 2011. Traditional drug therapies from various medicinal plants of Central Karakoram National Park, Gilgit-Baltistan, Pakistan. *Pakistan Journal of Botany* 43: 79-84.

406. Hutchinson, J. T. & K. A. Langeland. 2011. Tolerance of Old World climbing fern (*Lygodium microphyllum*) spores to herbicides. *Invasive Plant Science and Management* 4(4): 411-418.
407. Ibars, A. M., M. A. Gómez-Serrano, O. Mayoral & E. Estrelles. 2011. Prioridades para la conservación en el ámbito de los helechos en Castilla-La Mancha, **In** J. E. Hernández Bermejo & J. M. Herranz Sanz (Eds.). *Protección de la diversidad vegetal y de los recursos fitogenéticos de Castilla-La Mancha*. Instituto de Estudios Albacetenses- Botánico de Castilla-La Mancha. Serie I Estudios 197: 191-213, Albacete, Spain.
408. Ibraheim, Z. Z., A. S. Ahmed & Y. G. Gouda. 2011. Phytochemical and biological studies of *Adiantum capillus-veneris* L. *Saudi Pharmaceutical Journal* 19(2): 65-74.
409. Irfanullah, H. M. 2011. Conserving threatened plants of Bangladesh: miles to go before we start? *Bangladesh Journal of Plant Taxonomy* 18(1): 81-91.
410. Irudayaraj, V., M. Johnson, A. S. Priyakumari & A. Janani Prabha. 2011. Effect of heavy metal stress on spore germination of *Pteris confusa* T. G. Walker and *Pteris argyraea* T. Moore. *Journal of Stress Physiology and Biochemistry* 7(4): 207-216.
411. Ishiuchi, K. I., T. Kubota, H. Ishiyama, S. Hayashi, T. Shibata & J. I. Kobayashi. 2011. Lyconadins C and F, new *Lycopodium* alkaloids from *Lycopodium complanatum*. *Tetrahedron Letters* 52(2): 289-292.
412. Ishiuchi, K. I., T. Kubota, H. Ishiyama, S. Hayashi, T. Shibata, K. Mori, Y. Obara, N. Nakahata & J. I. Kobayashi. 2011. Lyconadins D and E, and complanadine E, new *Lycopodium* alkaloids from *Lycopodium complanatum*. *Bioorganic & Medicinal Chemistry* 19(2): 749-753.
413. Izuno, A., M. Takamiya, S. Kaneko & Y. Isagi. 2011. Microsatellite loci in an endangered fern species, *Athyrium viridescens* (Woodsiaceae), and cross-species amplification. *American Journal of Botany* 98(11): e339-e341.
414. Jadhav, B., S. D. Shaikh & M. Dongare. 2011. Phytochemical studies in eleven species of ferns from Satara District of Maharashtra (India). *Recent Research in Science and Technology* 3(9): 20-21.
415. Jansa, J., R. Finlay, H. Wallander, F. A. Smith & S. E. Smith. 2011. Role of mycorrhizal symbioses in phosphorus cycling, **In** E. K. Bünemann, A. Oberson, E. Frossard (Eds.). *Phosphorus in action: biological processes in soil phosphorus cycling*. Springer, Berlin. pp. 137-168.
416. Jesky, R. & H. Chen. 2011. Are herbal compounds the next frontier for alleviating learning and memory impairments? An integrative look at memory, dementia and the promising therapeutics of traditional Chinese medicines. *Phytotherapy Research* 25(8): 1105-1118. [*Huperzia serrata*]
417. Jiang, H., X. Mao, H. Xu, J. Thompson, P. Wang & X. Ma. 2011. Last glacial pollen record from Lanzhou (northwestern China) and possible forcing mechanisms for the MIS 3 climate change in Middle to East Asia. *Quaternary Science Reviews* 30(5-6): 769-781.
418. Jiang, R. H., X. C. Zhang & Y. Liu. 2011. *Asplenium cornutissimum* (Aspleniaceae), a new species from karst caves in Guangxi, China. *Brittonia* 63: 83-86.
419. Jiang, R. H., X. C. Zhang, L. Wu & Y. H. Yan. 2011. *Ctenitis mannii* (Hope) Ching, a newly recorded species of *Ctenitis* (Aspidiaceae) from China. *Acta Botanica Boreali-Occidentalia Sinica* 31(2): 413-416.
420. Jiang, Y., H. Wang, P. Ning & H. Wang. 2011. Efficiency and effects of chemical chelants leaching on arsenical gold mine pretreatment by *Pteris vittata* L. in arsenical gold ore, **In** Y. Shi & J. Zuo (Eds.). *Environmental biotechnology and materials engineering*, Harbin, China. pp. 2303-2307.
421. Johnny, L., U. K. Yusuf & R. Nulit. 2011. Antifungal activity of selected plant leaves crude extracts against a pepper anthracnose fungus, *Colletotrichum capsici* (Sydow) Butler and Bisby (Ascomycota: Phyllachorales). *African Journal of Biotechnology* 10(20): 4157-4165. [*Blechnum orientale*, *Dicranopteris linearis*, *Nephrolepis biserrata*]

422. Johnson, A. K., C. J. Rothfels, A. L. Grusz, E. M. Sigel, M. D. Windham & K. M. Pryer. 2011. Sporophytes and gametophytes of notholaenid ferns (Pteridaceae) show correlated presence/absence of farina. Poster presented at annual BSA meetings, St. Louis, MO.
423. Jones, M. E., M. E. Fenn & T. D. Paine. 2011. The effect of nitrogen additions on bracken fern and its insect herbivores at sites with high and low atmospheric pollution. *Arthropod-Plant Interactions* 5(3): 163-173. [*Pteridium*]
424. Jones, M. M., B. Szyska & M. Kessler. 2011. Microhabitat partitioning promotes plant diversity in a tropical montane forest. *Global Ecology and Biogeography* 20: 558-569.
425. Jones, M. T. & W. A. Patterson, III. 2011. Environmental factors influencing the local abundance of *Equisetum scirpoides* near the southern extent of its range. *Rhodora* 113(954): 187-200.
426. Jose, S. 2011. Managing native and non-native plants in agroforestry systems. *Agroforestry Systems* 83(2): 101-105.
427. Joshi, P., B. Kumar, R. Kumar & H. C. Pande. 2011. Pteridophytes of Budha Kedar and surrounding areas in Tehri District of Uttarakhand. *Indian Journal of Forestry* 34: 479-482.
428. Joshi, V. & S. P. Joshi. 2011. Wild vegetable species commonly consumed by tribes of Chakrata. *Indian Forester* 137(11): 1338-1341.
429. Jurka, J., W. Bao & K. K. Kojima. 2011. Families of transposable elements, population structure and the origin of species. *Biology Direct* 6: 44. [*Selaginella moellendorffii*]
430. Juslén, A., H. Väre & N. Wikström. 2011. Relationships and evolutionary origins of polyploid *Dryopteris* (Dryopteridaceae) from Europe inferred using nuclear *pgiC* and plastid *trnL-F* sequence data. *Taxon* 60(5): 1284-1294.
431. Kalve, S., B. K. Sarangi, R. A. Pandey & T. Chakrabarti. 2011. Arsenic and chromium hyperaccumulation by an ecotype of *Pteris vittata* - prospective for phytoextraction from contaminated water and soil. *Current Science* 100(6): 888-894.
432. Kamari, G., C. Blanche & S. Siljak-Yakovlev. 2011. Mediterranean chromosome number reports. *Flora Mediterranea* 21: 355-372. [*Isoetes*]
433. Kang, S. W., J. L. Kim, G. T. Kwon, Y. J. Lee, J. H. Park, S. S. Lim & Y. H. Kang. 2011. Sensitive fern (*Onoclea sensibilis*) extract suppresses proliferation and migration of vascular smooth muscle cells inflamed by neighboring macrophages. *Biological and Pharmaceutical Bulletin* 34(11): 1717-1723.
434. Karger, D. N., J. Kluge, T. Krömer, A. Hemp, M. Lehnert & M. Kessler. 2011. The effect of area on local and regional elevational patterns of species richness. *Journal of Biogeography* 38(6): 1177-1185.
435. Karim, A., M. Nouman, S. Munir & S. Sattar. 2011. Pharmacology and phytochemistry of Pakistani herbs and herbal drugs used for treatment of diabetes. *International Journal of Pharmacology* 7(4): 419-439. [*Equisetum arvense*]
436. Karmakar, J. & S. K. Mukhopadhyay. 2011. Study of antimicrobial activity and root symbionts of *Hemionitis arifolia*. *Physiology and Molecular Biology of Plants* 17(2): 199-202.
437. Karpati, A. S., S. N. Handel, J. Dighton & T. R. Horton. 2011. *Quercus rubra*-associated ectomycorrhizal fungal communities of disturbed urban sites and mature forests. *Mycorrhiza* 21(6): 537-547.
438. Karpowicz, S. J., S. E. Prochnik, A. R. Grossman & S. S. Merchant. 2011. The GreenCut2 resource, a phylogenomically derived inventory of proteins specific to the plant lineage. *Journal of Biological Chemistry* 286(24): 21427-21439. [*Selaginella*]
439. Katawaka, K., H. Mito, N. Kogure, M. Kitajima, S. Wongseripipatana, M. Arisawa & H. Takayama. 2011. Ten new fawcettimine-related alkaloids from three species of *Lycopodium*. *Tetrahedron* 67(35): 6561-6567.
440. Kato, M. 2011. Classification, molecular phylogeny, and heterospory of pteridophytes. *Ecobios* 4(1-2): 5-9.

441. Kawahara, A. Y., N. B. Tangalin & D. Rubinoff. 2011. Life-history notes on the fern-mining endemic *Hyposmocoma (Euperissus) trivitella* Swezey 1913 (Lepidoptera: Cosmopterigidae) from Kauai and a report of associated parasitoids (Hymenoptera: Bethyilidae). *Proceedings of the Hawaiian Entomological Society* 43: 9-12.
442. Kawakami, S. M., S. Kawakami, K. Kondo & A. Shmakov. 2011. Cytological studies of Russian Altai ferns and the haploid sporophyte formation. *Chromosome Botany* 6(2): 21-23. [*Asplenium ruta-muraria*, *Cheilanthes argentea*, *Woodsia asiatica*]
443. Kedzierski, M., F. J. Rodriguez-Tovar & A. Uchman. 2011. Vertical displacement and taphonomic filtering of nanofossils by bioturbation in the Cretaceous-Palaeogene boundary section at Caravaca, SE Spain. *Lethaia* 44(3): 321-328.
444. Keller, H. A., E. I. M. Torres & G. T. Prance. 2011. Ethnopteridology of the Guaranis of Misiones Province, Argentina. *American Fern Journal* 101(3): 193-204.
445. Keller, R. P. & C. Perrings. 2011. International policy options for reducing the environmental impacts of invasive species. *Bioscience* 61(12): 1005-1012. [*Pteridium aquilinum*]
446. Kerr, J. G., M. Burford, J. Olley & J. Udy. 2011. Nitrogen and phosphorus storage in contrasting reaches of a sub-tropical river system. *Water Air and Soil Pollution* 217(1-4): 523-534. [*Azolla*]
447. Kessler, M., A. L. Moguel Velásquez, M. A. Sundue & P. H. Labiak. 2011. *Alansmia*, a new genus of grammitid ferns (Polypodiaceae) segregated from *Terpsichore*. *Brittonia* 63: 233-244.
448. Kessler, M., J. Kluge, A. Hemp & R. Ohlemüller. 2011. A global comparative analysis of elevational species richness patterns of ferns. *Global Ecology and Biogeography* 20: 868-880.
449. Kessler, M., S. Hofmann, T. Krömer, D. Cicuzza & J. Kluge. 2011. The impact of sterile populations on the perception of elevational richness patterns in ferns. *Ecography* 34: 123-131.
450. Kettenring, K. M. & C. R. Adams. 2011. Lessons learned from invasive plant control experiments: a systematic review and meta-analysis. *Journal of Applied Ecology* 48(4): 970-979. [*Pteridium aquilinum*]
451. Kholia, B. S. & Fraser-Jenkins, C. R.. 2011. Misidentification makes scientific publications worthless - Save our taxonomy and taxonomists, *Current Science* 100(4): 458-461.
452. Kholia, B. S. & Punetha, N. 2011. Book review: *Biology and evolution of ferns and lycophytes*. *Current Science* 101(7): 963.
453. Kholia, B. S. & Punetha, N. 2011. Book review: *Fern ecology*. *Current Science* 100(12): 1885-1887.
454. Kholia, B. S. 2011. Pteridophytic wealth of Sikkim Himalaya, **In** M. L. Arrawatia & S. Tambe (Eds.). *Biodiversity of Sikkim, 3. Ferns*. Government of Sikkim. Information and Public Relations Department. Pp. 43-64.
455. Khullar, S. P. & S. C. Verma. 2011. *Onychium fragile* versus *Onychium tenuifrons* revisited: upholding the identity of *Onychium fragile*. *Indian Fern Journal* 28(1-2): 179-205.
456. Kim, T. H., S. J. Yoon, W. C. Lee, J. K. Kim, J. Shin, S. Lee & S. M. Lee. 2011. Protective effect of GCSB-5, an herbal preparation, against peripheral nerve injury in rats. *Journal of Ethnopharmacology* 136(2): 297-304. [*Cibotium barometz*]
457. Klavsen, S. K., T. V. Madsen & S. C. Maberly. 2011. Crassulacean acid metabolism in the context of other carbon-concentrating mechanisms in freshwater plants: a review. *Photosynthesis Research* 109(1-3): 269-279. [*Isoetes*]
458. Klopper, A. W. & R. R. Klopper. 2011. Lycopodiophyta: Selaginellaceae *Selaginella nivea*, a new lycophyte record for South Africa, with notes on its habitat. *Bothalia* 41(2): 321-323.
459. Klopper, R. R. & A. E. Van Wyk. 2011. Pteridophyta-Sinopteridaceae a new subspecies of *Cheilanthes deltoidea* from Gauteng and Limpopo, South Africa. *Bothalia* 41(1): 204-207.
460. Kluge, J. & M. Kessler. 2011. Influence of niche characteristics and forest type on fern species richness, abundance and plant size along an elevational gradient in Costa Rica. *Plant Ecology* 212: 1109-1121.

461. Kluge, J. & M. Kessler. 2011. Phylogenetic diversity, trait diversity and niches: species assembly of ferns along a tropical elevational gradient. *Journal of Biogeography* 38: 394-405.
462. Knapp, R. 2011. Ferns and fern allies of Taiwan. KBCC Press and Yuan-Liou Publishing, Taipei. Pp. 1052. [English, with Latin and Chinese species index]
463. Knapp, S., J. McNeill & N. J. Turland. 2011. Translation into Portuguese of: "Changes to publication requirements made at the XVIII International Botanical Congress in Melbourne - what does e-publication mean for you?". Translated by Jefferson Prado, Regina Y. Hirai, and Cíntia Kameyama. *PhytoKeys* 6: 21-28 [Portuguese].
464. Kobayashi, Y., H. Motose, K. Iwamoto & H. Fukuda. 2011. Expression and genome-wide analysis of the xylogen-type gene family. *Plant and Cell Physiology* 52(6): 1095-1106. [*Selaginella moellendorffii*]
465. Koehler, J. W., L. C. Dupuy, A. R. Garrison, B. F. Beitzel, M. J. Richards, D. R. Ripoll, A. Wallqvist, S. Y. Teh, A. A. Vaewhongs, F. S. Vojdani, H. S. Padgett & C. S. Schmaljohn. 2011. Novel plant-derived recombinant human interferons with broad spectrum antiviral activity. *Antiviral Research* 92(3): 461-469. [*Selaginella lepidophylla*]
466. Koenemann, D. M., J. A. Maisonnier & D. S. Barrington. 2011. Broad-scale integrity and local divergence in the fiddlehead fern *Matteuccia struthiopteris* (L.) Todaro (Onocleaceae). *American Fern Journal* 101(4): 213-230.
467. Kolomiyets, N. E., V. V. Sheikin, A. V. Ratkin & R. A. Bondarchuk. 2011. Hepatoprotective properties of horsetails (*Equisetum*). *Farmatsiya* 7: 46-48.
468. Korn, R. W. 2011. Mericlinal chimeras in the gametophyte of *Dryopteris thelypteris* (L.) Gray. *American Fern Journal* 101(3): 208-212.
469. Krassilov, V. & E. Schrank. 2011. New Albian macro- and palynoflora from the Negev (Israel) with description of a new gymnosperm morphotaxon. *Cretaceous Research* 32(1): 13-29.
470. Kreshchenok, I. A. 2011. Synopsis of ferns of Amur Province. *Turczaninowia* 14: 23-44. [Russian]
471. Kribek, B., M. Mihaljevic, O. Sracek, I. Knesl, V. Ettler & I. Nyambe. 2011. The extent of arsenic and of metal uptake by aboveground tissues of *Pteris vittata* and *Cyperus involucreatus* growing in copper- and cobalt-rich tailings of the Zambian Copperbelt. *Archives of Environmental Contamination and Toxicology* 61(2): 228-242.
472. Krings, M., N. Dotzler, J. Galtier & T. N. Taylor. 2011. Oldest fossil basidiomycete clamp connections. *Mycoscience* 52(1): 18-23. [*Botryopteris antiqua*]
473. Krings, M., T. N. Taylor & N. Dotzler. 2011. The fossil record of the Peronosporomycetes (Oomycota). *Mycologia* 103(3): 445-457.
474. Krings, M., T. N. Taylor, E. L. Taylor, N. Dotzler & C. Walker. 2011. Arbuscular mycorrhizal-like fungi in Carboniferous arborescent lycopsids. *New Phytologist* 191(2): 311-314.
475. Krippel, Y. & Bujnoch, W. 2011. First record of *Dryopteris ×complexa* Fraser-Jenk. (*Dryopteris affinis* × *Dryopteris filix-mas*) (Dryopteridaceae, Pteridophyta) for Luxembourg. *Bulletin de la Société des Naturalistes Luxembourgeois* 112: 3-8. [German]
476. Krízsik, V. & Kérsesz, M. 2011. Spatial pattern of multilocus phenotypes within a population of a tetraploid fern, *Asplenium ceterach* ssp. *ceterach*. *Community Ecology* 12(1): 99-107.
477. Kumar, A. & P. Kaushik. 2011. Antibacterial effect of *Adiantum incisum* Forssk. *Indian Fern Journal* 28(1-2): 155-161.
478. Kumar, A. & P. Kaushik. 2011. Antibacterial effect of *Selaginella bryopteris*. *Indian Fern Journal* 28(1-2): 162-168.
479. Kumar, M. 2011. Effects of hyperthermia on photosynthetic pigments of *Adiantum incisum* occurring in Rajasthan. *Indian Fern Journal* 28(1-2): 1-6.
480. Kumari, A., B. Lal, Y. B. Pakade & P. Chand. 2011. Assessment of bioaccumulation of heavy metal by *Pteris vittata* L. growing in the vicinity of fly ash. *International Journal of Phytoremediation* 13(8): 779-787.

481. Kuo, L. Y., F. W. Li, W. L. Chiou & C. N. Wang. 2011. First insights into fern matK phylogeny. *Molecular Phylogenetics and Evolution* 59: 556-566.
482. Kuriyama, A., M. Yamaguchi, H. Tsuda & M. Kasuya. 2011. Methods of propagating and storing plants of *Ceratopteris thalictroides* through encapsulation of callus in gel beads. *Horticultural Research (Japan)* 10(1): 15-19.
483. Kuroda, A., H. Tsubota, S. Mukai, G. Toyohara & T. Itani. 2011. A preliminary study of allelopathic activity of evergreen perennial ferns, *Dicranopteris linearis* and *Gleichenia japonica* (Gleicheniaceae), based on laboratory bioassays using lettuce seeds. *Hikobia* 16(1): 1-7.
484. Kustatscher, E. & J. H. A. van Konijnenburg-van Cittert. 2011. The ferns of the Middle Triassic flora from Thale (Germany). *Neues Lehrbuch für Geologie und Palaeontologie, Abhandlungen* 261(2): 209-248.
485. Kustatscher, E., C. Pott & J. H. A. van Konijnenburg-van Cittert. 2011. A contribution to the knowledge of the Triassic fern genus *Symopteris*. *Review of Palaeobotany and Palynology* 165: 41-60.
486. Kustatscher, E., Pott, C. & J. H. A. van Konijnenburg-van Cittert. 2011. *Scytophyllum waehneri* (Stur) nov. comb., the correct name for *Scytophyllum persicum* (Schenk) Kilpper, 1975. *Zitteliana A* 51: 9-18.
487. Kutluk, H., J. D. Speelman & L. V. Hills. 2011. The fossil spore genus *Ghoshispora*. *Palaeontographica Abteilung B Palaeophytologie* 284(4-6): 81-123. [water ferns]
488. Kvacek, Z. & V. Teodoridis. 2011. The Late Eocene Flora of Kuclin near Bilina in north Bohemia Revisited. *Acta Musei Nationalis Pragae, Series B Historia Naturalis* 67(3-4): 83-144.
489. Kvacek, Z., V. Teodoridis & P. Roiron. 2011. A forgotten Miocene mastixioid flora of Arjuzanx (Landes, SW France). *Palaeontographica Abteilung B Palaeophytologie* 285(1-3): 3-111.
490. Labiak, P. H. 2011. *Stenogrammitis*, a new genus of grammitid ferns segregated from *Lellingeria* (Polypodiaceae). *Brittonia* 63(1): 139-149.
491. Laghari, S. M., S. Soomro & F. A. Dal. 2011. Trilete spores isolated from Sonda Coal Field District Thatta Sindh, Pakistan. *Sindh University Research Journal -Science Series* 43(2): 173-178. [*Todisporites punctata*]
492. Lai, H. Y., Y. Y. Lim & K. H. Kim. 2011. Potential dermal wound healing agent in *Blechnum orientale* Linn. *BMC Complementary and Alternative Medicine* 11: 62.
493. Lai, K. W., P. C. F. Tam & W. K. Yip. 2011. The occurrence of ACC-dependent ethylene biosynthesis might have played important role in the speciation of beta-cyanoalanine synthase (CAS) from the O-acetylserine sulfhydrylase (OASS) family proteins during land plant evolution. *FEBS Journal* 278(1): S315-316.
494. Laiho, R., P. Ojanen, M. Ilomets, T. Hajek & E. S. Tuittila. 2011. Moss production in a boreal, forestry-drained peatland. *Boreal Environment Research* 16(5): 441-449. [*Dryopteris carthusiana*]
495. Lammertsma, E. I., H. J. de Boer, S. C. Dekker, D. L. Dilcher, A. F. Lotter & F. Wagner-Cremer. 2011. Global CO₂ rise leads to reduced maximum stomatal conductance in Florida vegetation. *Proceedings of the National Academy of Sciences of the United States of America* 108(10): 4035-4040.
496. Landi, A. & C. Angiolini. 2011. Population structure of *Osmunda regalis* in relation to environment and vegetation: an example in the Mediterranean area. *Folia Geobotanica*, 46: 49-68.
497. Langhammer, A. J. & O. G. Nilsen. 2011. CYP3A4 inhibition by six herbs commonly used in pregnancy. *Toxicology Letters* 205(1): S165. [*Equisetum*]
498. Latorre, A. O., B. D. Caniceiro, H. L. Wysocki, M. Haraguchi, D. R. Gardner & S. L. Górniak. 2011. Selenium reverses *Pteridium aquilinum*-induced immunotoxic effects. *Food and Chemical Toxicology* 49(2): 464-470.

499. Laurance, W. F., D. C. Useche, L. P. Shoo, S. K. Herzog, M. Kessler, F. Escobar, G. Brehm, J. C. Axmacher, I. C. Chen, L. Arellano Gámez, P. Hietz, K. Fiedler, T. Pyrcz, J. Wolf, C. L. Merkord, C. Cardelus, A. R. Marshall, C. Ah-Peng, G. H. Aplet, M. del Coro Arizmendi, W. J. Baker, J. Barone, C. A. Brühl, R. W. Bussmann, D. Cicuzza, G. Eilu, M. E. Favila, A. Hemp, C. Hemp, J. Homeier, J. Hurtado, J. Jankowski, G. Kattán, J. Kluge, T. Krömer, D. C. Lees, M. Lehnert, J. T. Longino, J. Lovett, P. H. Martin, B. D. Patterson, R. G. Pearson, K. S. H. Peh, B. Richardson, M. Richardson, M. J. Samways, F. Senbeta, T. B. Smith, T. M. A. Utteridge, J. E. Watkins, R. Wilson, S. E. Williams, C. D. Thomas 2011. Global warming, elevational ranges and the vulnerability of tropical biota. *Biological Conservation* 144(1): 548-557.
500. Lavalle, M. D., A. Mengascini & M. Rodríguez. 2011. Spores morphology and synangia in neotropical fern species of *Marattia* (Marattiaceae). *Revista de Biología Tropical* 59(4): 1833-1844. [Spanish]
501. Law, C. & C. Exley. 2011. New insight into silica deposition in horsetail (*Equisetum arvense*). *BMC Plant Biology* 11: 112.
502. Leboulanger, C., M. Bouvy, C. Carre, P. Cecchi, L. Amalric, A. Bouchez, M. Pagano & G. Sarazin. 2011. Comparison of the effects of two herbicides and an insecticide on tropical freshwater plankton in microcosms. *Archives of Environmental Contamination and Toxicology* 61(4): 599-613. [*Salvinia molesta*]
503. Lee, C. H., Y. L. Huang, J. F. Liao & W. F. Chiou. 2011. Ugonin K promotes osteoblastic differentiation and mineralization by activation of p38 MAPK- and ERK-mediated expression of Runx2 and osterix. *European Journal of Pharmacology* 668(3): 383-389. [*Helminthostachys zeylanica*]
504. Lee, E. H., S. H. Lee & K. S. Cho. 2011. Bacterial diversity dynamics in a long-term petroleum-contaminated soil. *Journal of Environmental Science and Health Part A Toxic-Hazardous Substances & Environmental Engineering* 46(3): 281-290. [*Equisetum arvense*]
505. Lee, S. J. & J. P. Lee. 2011. Effect of arsenic absorption on the water-refilling speed of *Pteris cretica*. *Microscopy Research and Technique* 74(6): 517-522.
506. Lee, S. Y., H. K. Kwon & S. M. Lee. 2011. SHINBARO, a new herbal medicine with multifunctional mechanism for joint disease: first therapeutic application for the treatment of osteoarthritis. *Archives of Pharmacal Research* 34(11): 1773-1777. [*Cibotium*]
507. Lee, S., H. Kim, J. W. Kang, J. H. Kim, D. H. Lee, M. S. Kim, Y. Yang, E. R. Woo, Y. M. Kim, J. Hong & D. Y. Yoon. 2011. The biflavonoid amentoflavone induces apoptosis via suppressing E7 expression, cell cycle arrest at Sub-G(1) phase, and mitochondria-emanated intrinsic pathways in human cervical cancer cells. *Journal of Medicinal Food* 14(7-8): 808-816. [*Selaginella tamariscina*]
508. Lehnert, M. 2011. Species of *Cyathea* in America related to the western Pacific species *C. decurrens*. *Phytotaxa* 26: 39-59.
509. Lehnert, M. 2011. The Cyatheaceae (Polypodiopsida) of Peru. *Brittonia* 63(1): 11-45.
510. Lehtonen, S. 2011. A new species of *Odontosoria* (Lindsaeaceae) from New Guinea. *Blumea* 56(3): 216-217.
511. Lehtonen, S. 2011. Towards resolving the complete fern tree of life. *Plos One* 6(10): e24851.
512. Lei, Y. F., J. L. Chen, H. Wei, C. M. Xiong, Y. H. Zhang & J. Ruan. 2011. Hypolipidemic and anti-inflammatory properties of Abacopterin A from *Abacopteris penangiana* in high-fat diet-induced hyperlipidemia mice. *Food and Chemical Toxicology* 49(12): 3206-3210.
513. Lei, Y., W. Fu, J. Chen, C. Xiong, G. Wu, H. Wei & J. Ruan. 2011. Neuroprotective effects of Abacopterin E from *Abacopteris penangiana* against oxidative stress-induced neurotoxicity. *Journal of Ethnopharmacology* 134(2): 275-280.
514. Leichty, E. R., B. J. Carmichael & W. J. Platt. 2011. Invasion of a southeastern pine savanna by Japanese climbing fern. *Castanea* 76(3): 293-299.

515. León, B., K. R. Young, J. Roque & A. Cano. 2011. Nuevos registros de plantas de la zona alta del Parque Nacional Río Abiseo, Perú. *Arnaldoa* 17(1): 51-83.
516. Leroux, O., A. Bagniewska-Zadworna, S. Rambe, J. P. Knox, S. E. Marcus, E. Bellefroid, D. Stubbe, B. Chabbert, A. Habrant, M. Claeys & R. L. L. Viane. 2011. Non-lignified helical cell wall thickenings in root cortical cells of *Aspleniaceae* (Polypodiales): histology and taxonomical significance. *Annals of Botany* 107(2): 195-207.
517. Leroux, O., F. Leroux, A. Bagniewska-Zadworna, J. P. Knox, M. Claeys, S. Bals & R. L. L. Viane. 2011. Ultrastructure and composition of cell wall appositions in the roots of *Asplenium* (Polypodiales). *Micron* 42(8): 863-870.
518. Leroux, O., J. P. Knox, B. Masschaele, A. Bagniewska-Zadworna, S. E. Marcus, M. Claeys, L. van Hoorebeke & R. L. L. Viane. 2011. An extensin-rich matrix lines the carinal canals in *Equisetum ramosissimum*, which may function as water-conducting channels. *Annals of Botany* 108(2): 307-319.
519. Leven, E. J., S. V. Naugolnykh & M. N. Gorgij. 2011. New findings of Permian marine and terrestrial fossils in Central Iran (the Kalmard Block) and their significance for correlation of the Tethyan, Uralian, and West European Scales. *Rivista Italiana di Paleontologia e Stratigrafia* 117(3): 355-374. [*Taeniopteris crassicaulis*]
520. Li, C., S. Lu, X. Sun & Q. Yang. 2011. Phylogenetic positions of the enigmatic Asiatic fern genera *Diplaziopsis* and *Rhachidosorus* from analyses of four plastid genes. *American Fern Journal* 101(3): 142-155.
521. Li, F. W., L. Y. Kuo, C. J. Rothfels, A. Ebihara, W. L. Chiou, M. D. Windham & K. M. Pryer, 2011. rbcL and matK earn two thumbs up as the core DNA barcode for ferns. *PLoS ONE* 6(10): e26597.
522. Li, G. Y., N. Hu, D. X. Ding, J. F. Zheng, Y. L. Liu, Y. D. Wang & X. Q. Nie. 2011. Screening of plant species for phytoremediation of uranium, thorium, barium, nickel, strontium and lead contaminated soils from a uranium mill tailings repository in south China. *Bulletin of Environmental Contamination and Toxicology* 86(6): 646-652. [*Cibotium barometz*]
523. Li, J., Z. Jin & Q. Gu. 2011. Effect of plant species on the function and structure of the bacterial community in the rhizosphere of lead-zinc mine tailings in Zhejiang, China. *Canadian Journal of Microbiology* 57(7): 569-577. [*Equisetum ramosissimum*]
524. Li, L., Z. Zeng & G. Cai. 2011. Comparison of neoeriocitrin and naringin on proliferation and osteogenic differentiation in MC3T3-E1. *Phytomedicine* 18(11): 985-989. [*Drynaria*]
525. Li, S. F., J. R. Su, W. D. Liu, Z. J. Zhang, Q. Y. Liu & Z. W. Li. 2011. Diversity and distribution of vascular epiphytes in different restoration stages of monsoonal broad-leaved evergreen forest communities. *Forest Research* 24(2): 151-158.
526. Li, Y. & Y. B. Wang. 2011. Effects of growth of *Pteris vittata* on enzyme activities in rhizosphere soil of copper mining tailing. *Journal of Ecology and Rural Environment* 27(2): 75-80.
527. Li, Y., Q. Xu, H. Duan & B. M. Jane. 2011. Environmental context of a Neolithic site at Beifudi, north-west Hebei Province, China. *Journal of Archaeological Science* 38(10): 2502-2508. [*Lycopodium*]
528. Liang, Y. H., M. Ye, W. Z. Yang, X. Qiao, Q. Wang, H. J. Yang, X. L. Wang & D. A. Guo. 2011. Flavan-3-ols from the rhizomes of *Drynaria fortunei*. *Phytochemistry* 72(14-15): 1876-1882.
529. Liao, Y. K. & Y. H. Wu. 2011. *In vitro* propagation of *Platyserium bifurcatum* (Cav.) C. Chr. via green globular body initiation. *Botanical Studies* 52(4): 455-463.
530. Liao, Y. Y., X. Y. Yang, T. J. Motley, J. M. Chen & Q. F. Wang. 2011. Phylogeographic analysis reveals two cryptic species of the endangered fern *Ceratopteris thalictroides* (L.) Brongn. (Parkeriaceae) in China. *Conservation Genetics* 12(5): 1357-1365.

531. Liebel, H. T. & A. Krill. 2011. Lille Raipas - a geological-botanical treasure-chest in Alta, Finnmark county. *Blyttia* 69(2): 74-86. [*Woodsia glabella*]
532. Lin, H. Y. & B. B. Snider. 2011. Synthesis of (+/-)-7-Hydroxylycopodine. *Organic Letters* 13(5): 1234-1237. [*Huperzia saururus*]
533. Lin, S. J., A. Ebihara, D. Wang & K. Iwatsuki. 2011. Systematic studies of *Polystichum* (Dryopteridaceae) in Japan (I): *P. fibrillosopaleaceum* var. *marginale* is a diploid hybrid between *P. fibrillosopaleaceum* and *P. igaense*. *American Fern Journal* 101(4): 295-306.
534. Link-Pérez, M. A. & R. J. Hickey. 2011. Revision of *Adiantopsis radiata* (Pteridaceae) with descriptions of new taxa with palmately compound laminae. *Systematic Botany* 36(3): 565-582.
535. Link-Pérez, M. A., L. E. Watson & R. J. Hickey. 2011. Redefinition of *Adiantopsis* Fee (Pteridaceae): systematics, diversification, and biogeography. *Taxon* 60(5): 1255-1268.
536. Liu, F., H. Zhu & S. Ouyang. 2011. Taxonomy and biostratigraphy of Pennsylvanian to Late Permian megaspores from Shanxi, north China. *Review of Palaeobotany and Palynology* 165(3-4): 135-153. [*Selaginella*]
537. Liu, H., H. Peng, Z. Ji, S. Zhao, Y. Zhang, J. Wu, J. Fan & J. Liao. 2011. Reactive oxygen species-mediated mitochondrial dysfunction is involved in apoptosis in human nasopharyngeal carcinoma CNE cells induced by *Selaginella doederleinii* extract. *Journal of Ethnopharmacology* 138(1): 184-191.
538. Liu, H., Y. Xiao, C. Xiong, A. Wei & J. Ruan. 2011. Apoptosis induced by a new flavonoid in human hepatoma HepG2 cells involves reactive oxygen species-mediated mitochondrial dysfunction and MAPK activation. *European Journal of Pharmacology* 654(3): 209-216. [*Macrothelypteris torresiana*]
539. Liu, J., J. Shu, R. Zhang & W. Zhang. 2011. Two new pterisin dimers from *Pteris mutifida* Poir. *Fitoterapia* 82(8): 1181-1184.
540. Liu, W. & W. Cao. 2011. Niche characteristics of main plant species in spruce-fir forests in Changbai Mountains. *Chinese Journal of Ecology (Shengtaixue Zazhi)* 30(8): 1766-1774. [*Dryopteris crassirhizoma*]
541. Liu, Y. C., W. L. Chiou & M. Kato. 2011. Molecular phylogeny and taxonomy of the fern genus *Anisocampium* (Athyriaceae). *Taxon*: 60: 824-830.
542. Liu, Y. G., C. C. Liu, Y. F. Wei, Y. G. Liu & K. Guo. 2011. Species composition and community structure at different vegetation successional stages in Puding, Guizhou Province, China. *Chinese Journal of Plant Ecology* 35(10): 1009-1018.
543. Liu, Y., Y. Zhou, L. Liu, L. Sun & D. Li. 2011. *In silico* identification and evolutionary analysis of plant MAPKK6s. *Plant Molecular Biology Reporter* 29(4): 859-865. [*Selaginella moellendorffii*]
544. Ljungstrand, E. 2011. Glansbraeken in Sweden. *Svensk Botanisk Tidskrift* 105(4-5): 195-272. [*Acrostichum pulchrum*, *Asplenium adiantum-nigrum*, *Asplenium marinum*]
545. Lollen, M. & B. A. Laskar. 2011. Soil fertility management by Memba tribe of Mechuka Valley, Arunachal Pradesh. *Current Science* 101(11): 1399.
546. Long, F. J., D. G. Zhang, A. N. Singh, X. J. Su, S. K. Yan & S. L. Wang. 2011. Relationship between understory vegetation and canopy stratum trees in Huitong forest region. *Journal of Jishou University, Natural Sciences Edition* 32(1): 79-84. [*Anisocampium sheareri*]
547. Lopez Tirado, J. & E. Ruiz De Clavijo. 2011. Contribution to knowledge on pteridophytes of Cordoba province (Spain). *Acta Botanica Malacitana* 36: 211-212. [*Asplenium billotii*, *Isoetes durieui*, *Polypodium interjectum*]
548. Lorence, D. H. & W. L. Wagner. 2011. Introduction to botany of the Marquesas Islands: new taxa, combinations, and revisions. *PhytoKeys* 4: 1-4. [*Elaphoglossum*]
549. Lorence, D. H., W. L. Wagner, K. R. Wood & A. R. Smith. 2011. New pteridophyte species and combinations from the Marquesas Islands, French Polynesia. *PhytoKeys* 4: 5-51.

550. Loschi, R. A., J. A. Alves Pereira, E. L. Mendonca Machado, L. Carlos & J. J. G. de Sa e Melo Marques. 2011. Species-environment interactions in the colonization of a gully in Itumirim, Minas Gerais. *Cerne* 17(2): 161-180.
551. Losi, A. & W. Gaertner. 2011. Old chromophores, new photoactivation paradigms, trendy applications: flavins in blue light-sensing photoreceptors. *Photochemistry and Photobiology* 87(3): 491-510. [*Adiantum capillus-veneris*]
552. Lu, J. M., D. Z. Li, S. Lutz, A. Soejima, T. S. Yi & J. Wen. 2011. Biogeographic disjunction between Eastern Asia and North America in the *Adiantum pedatum* complex (Pteridaceae). *American Journal of Botany* 98(10): 1680-1693.
553. Lu, S. G. & Z. J. Tian. 2011. A taxonomic revision of the Dipteridaceae from Yunnan, China. *Plant Science Journal* 29(4): 432-434. [*Dipteris*]
554. Lu, X., Z. Xiong, J. Li, S. Zheng, T. Huo & F. Li. 2011. Metabonomic study on 'Kidney-Yang deficiency syndrome' and intervention effects of *Rhizoma Drynariae* extracts in rats using ultra performance liquid chromatography coupled with mass spectrometry. *Talanta* 83(3): 700-708. [*Drynaria fortunei*]
555. Ludwig-Müller, J. 2011. Auxin conjugates: their role for plant development and in the evolution of land plants. *Journal of Experimental Botany* 62(6): 1757-1773. [*Ceratopteris*, *Selaginella*]
556. Lue, X. T., J. X. Yin & J. W. Tang. 2011. Diversity and composition of understory vegetation in the tropical seasonal rain forest of Xishuangbanna, SW China. *Revista de Biologia Tropical* 59(1): 455-463. [*Selaginella delicatula*]
557. Lupia, R. 2011. Late Santonian mega spore floras from the gulf coastal plain (Georgia, USA). *Journal of Paleontology* 85(1): 1-21.
558. Lutz, A., S. Gnaedinger, A. Mancuso & A. Crisafulli. 2011. Paleoflora from the Los Rastros formation (Middle Triassic), San Juan Province, Argentina. *Taxonomic and Taphonomic Considerations. Ameghiniana* 48(4): 568-588.
559. Lyson, T. R., A. Bercovici, S. G. B. Chester, E. J. Sargis, D. Pearson & W. G. Joyce. 2011. Dinosaur extinction: closing the '3 m gap'. *Biology Letters* 7(6): 925-928.
560. Macedo, T. S., A. G. Neto & F. R. Nonato. 2011. First Record of *Thelypteris villosa* (Link) C. F. Reed (Thelypteridaceae) from northeast Brazil. *Acta Botanica Brasilica* 25(3): 727-728.
561. Macnish, A. J., R. T. Leonard & T. A. Nell. 2011. Sensitivity of potted foliage plant genotypes to ethylene and 1-methylcyclopropene. *Hortscience* 46(8): 1127-1131. [*Asplenium nidus*]
562. Mafu, S., M. L. Hillwig & R. J. Peters. 2011. A novel labda-7,13E-dien-15-ol-producing bifunctional diterpene synthase from *Selaginella moellendorffii*. *ChemBioChem* 12(13): 1984-1987.
563. Magrini, S. S. 2011. Herbaria as useful spore banks for integrated conservation strategies of pteridophytic diversity. *Plant Biosystems* 145(3): 635-637. [*Dryopteris tyrrenensis*]
564. Mahmood, M. S. & M. Strack. 2011. Methane dynamics of recolonized cutover minerotrophic peatland: implications for restoration. *Ecological Engineering* 37(11): 1859-1868. [*Equisetum arvense*]
565. Maia, V. C. & M. G. Santos. 2011. A new genus and species of gall midge (Diptera, Cecidomyiidae) associated with *Microgramma vacciniifolia* (Langsd. & Fisch.) Copel. (Polypodiaceae) from Brazil. *Revista Brasileira de Entomologia* 55(1): 40-44.
566. Maideen, H., Z. C. Desa, A. Damanhuri, A. Latiff & G. Rusea. 2011. Diversity of pteridophytes in Angsi Forest Reserve, Negeri Sembilan. *Sains Malaysiana* 40(12): 1341-1344. [Malay, English abstract]
567. Maliya, S. D. 2011. New or less-known uses of some ethnomedicinal plants of wildlife sanctuary Katarniyaghat of Bahraich Uttar Pradesh. *Journal of Economic and Taxonomic Botany* 35(1): 35-38. [*Lygodium flexuosum*]

568. Mallika, V., K. C. Sivakumar & E. V. Soniya. 2011. Evolutionary implications and physicochemical analyses of selected proteins of type III polyketide synthase family. *Evolutionary Bioinformatics* 7: 41-53. [*Psilotum nudum*]
569. Mandaluniz, N., A. Aldezabal & L. M. Oregui. 2011. Diet selection of beef cattle on Atlantic grassland-heathland mosaic: Are heathers more preferred than expected? *Livestock Science* 138(1-3): 49-55. [*Pteridium aquilinum*]
570. Marchi, S. R., D. Martins, N. V. Costa, C. A. Carbonari & J. R. V. Silva. 2011. Spray deposition on water fern plants in function of nozzle tips and population arrangements with water hyacinth and water lettuce plants. *Planta Daninha* 29(1): 77-84. [*Salvinia auriculata*]
571. Marcucci, R. & C. de Cesare. 2011. The Paduan botanical collections of Wilhelm Pfaff (1859-1933). *Gredleriana* 11: 5-17.
572. Marimuthu, J. & V. S. Manickam. 2011. *Ex situ* conservation of two threatened ferns of the Western Ghats through *in vitro* spore culture. *Journal of Threatened Taxa* 3(7): 1919-1928.
573. Marini, L., E. Bona, W. E. Kunin & K. J. Gaston. 2011. Exploring anthropogenic and natural processes shaping fern species richness along elevational gradients. *Journal of Biogeography* 38(1): 78-88.
574. Marques, L. A., M. Giera, H. Lingeman & W. M. A. Niessen. 2011. Analysis of acetylcholinesterase inhibitors: bioanalysis, degradation and metabolism. *Biomedical Chromatography* 25(1-2): 278-299. [*Huperzia serrata*]
575. Marquez, G. J. & C. A. Brusso. 2011. First record of Cyatheaceae in Uruguay. *American Fern Journal* 101(3): 205.
576. Marquez, G. J. & M. Ponce. 2011. Distributional update of *Alsophila cuspidata* (Kunze) Conant from Paraguay, and new synonymy. *American Fern Journal* 101(2): 127-128.
577. Martin, T. 2011. Rarotonga's threatened flora: an expedition to survey cloud forest endemics on the highest peaks. *Auckland Botanical Society Journal* 66: 51-58.
578. Martínez, O. G. & J. Prado. 2011. *Pteris exigua* (Pteridaceae), a new endemic species from Tucumano-Boliviano forests in northwestern Argentina. *Brittonia* 63: 295-299.
579. Marwat, S. K., M. A. Khan, F. Rehman, M. Ahmad & M. Zafar. 2011. Biodiversity and importance of floating weeds of Dara Ismail, Khan District of Kpk, Pakistan. *African Journal of Traditional Complementary and Alternative Medicines* 8(5): 97-107. [*Azolla pinnata*, *Marsilea quadrifolia*]
580. Maryam, A., A. Elias & H. B. Mohammad. 2011. Introduction and comparison of some Iranian herbal plants with antioxidant activity. *Clinical Biochemistry* 44(13): S333.
581. Masuda, E. K., G. D. Kommers, F. B. Rosa, C. S. L. Barros, R. A. Figuera & J. V. M. Piazer. 2011. Relationship between lymphopenia and the persistence of alimentary papillomatosis in cattle chronically and spontaneously poisoned by bracken fern (*Pteridium aquilinum*). *Pesquisa Veterinária Brasileira* 31(5): 383-388. [Portuguese, English abstract]
582. Masuda, E. K., G. D. Kommers, T. B. Martins, C. S. Barros & J. V. Piazer. 2011. Morphological factors as indicators of malignancy of squamous cell carcinomas in cattle exposed naturally to bracken fern (*Pteridium aquilinum*). *Journal of Comparative Pathology* 144(1): 48-54.
583. Masuyama, S. & Y. Watano. 2011. Cryptic species in the fern *Ceratopteris thalictroides* (L.) Brongn. (Parkeriaceae). IV. Taxonomic revision. *Bunrui* 11: 70-71. [Japanese]
584. Matei, E., J. M. Louis, J. Jee & A. M. Gronenborn. 2011. NMR solution structure of a cyanovirin homolog from wheat head blight fungus. *Proteins Structure Function and Bioinformatics* 79(5): 1538-1549. [*Ceratopteris richardii*]
585. Mathews, S., B. Rathinasabapathi & L. Q. Ma. 2011. Uptake and translocation of arsenite by *Pteris vittata* L.: effects of glycerol, antimonite and silver. *Environmental Pollution* 159(12): 3490-3495.

586. Mayrose, I., S. H. Zhan, C. J. Rothfels, K. Magnuson-Ford, M. S. Barker, L. H. Rieseberg & S. P. Otto. 2011. Recently formed polyploid plants diversify at lower rates. *Science* 333(6047): 1257.
587. Mazooji, A., F. Salimpour & R. Elmi. 2011. A new species of *Polypodium* (Polypodiaceae, Pteridophyta) from Iran. *Australian Journal of Basic and Applied Sciences* 5(8): 637-639.
588. Mazumdar, J. & R. Mukhopadhyay. 2011. Morphological variations in starch grains in two thelypteridoid ferns. *Indian Fern Journal* 28(1-2): 169-171.
589. Mazumdar, J. & R. Mukhopadhyay. 2011. Phytoliths in ferns. IV: In some aquatic ferns and Chinese brake fern. *Bioresearch Bulletin* 6: 385-388.
590. Mazumdar, J. 2011. Phytoliths of pteridophytes. *South African Journal of Botany* 77(1): 10-19.
591. Mazumder, P. B., A. Sen, B. D. Mazumder & M. D. Choudhoury. 2011. *In vitro* propagation of *Pronephrium lakhimpureense* (Rosenst.) Holttum, a rare fern of N. E. India. *Indian Fern Journal* 28(1-2): 105-111.
592. Mazumder, P. B., A. Sen, B. D. Mazumder & M. D. Choudhoury. 2011. *In vitro* propagation of *Cyathea gigantea*, a rare and endangered tree fern and the study of the effects of growth regulators on its development. *Indian Fern Journal* 28(1-2): 48-56.
593. McAvoy, W. 2011. A new combination in the fern genus *Osmundastrum* (Osmundaceae). *Novon* 21(3): 354-356.
594. McCarthy, M. R. & R. J. Hickey. 2011. *Adiantum mariposatum* (Pteridaceae), a new species from Ecuador. *American Fern Journal* 101(1): 1-5.
595. McElwain, J. C. 2011. Ferns: a xylem success story. *New Phytologist* 192(2): 307-310.
596. McHaffie, H. S. 2011. Book review: Fern ecology. *Annals of Botany* 108(1): x.
597. McLaughlin, J. W., E. B. W. Calhoun, M. R. Gale, M. F. Jurgensen & C. C. Trettin. 2011. Biogeochemical cycling and chemical fluxes in a managed northern forested wetland, Michigan, USA. *Forest Ecology and Management* 261(3): 649-661. [*Dryopteris*]
598. Melamed, Y., M. Kislev, E. Weiss & O. Simchoni. 2011. Extinction of water plants in the Hula Valley: Evidence for climate change. *Journal of Human Evolution* 60(4): 320-327. [*Azolla filiculoides*, *Salvinia natans*]
599. Melinda Paz-Alberto, A. M., M. J. J. de Dios, R. T. Alberto & G. C. Sigua. 2011. Assessing phytoremediation potentials of selected tropical plants for acrylamide. *Journal of Soils and Sediments* 11(7): 1190-1198. [*Nephrolepis cordifolia*]
600. Melo, G. L., J. Sponchiado, A. F. Machado & N. C. Caceres. 2011. Small-mammal community structure in a South American deciduous Atlantic Forest. *Community Ecology* 12(1): 58-66.
601. Melo, L. C. N. & A. Salino. 2011. New species of *Elaphoglossum* Schott ex J. Sm. (Dryopteridaceae) from Brazil. *American Fern Journal* 101(4): 261-264.
602. Mendes, M. M., J. Dinis, J. Pais & E. M. Friis. 2011. Early cretaceous flora from Vale Painho (Lusitanian basin, western Portugal): An integrated palynological and mesofossil study. *Review of Palaeobotany and Palynology* 166(3-4): 152-162.
603. Menendez, V., Y. Abul, B. Bohanec, F. Lafont & H. Fernandez. 2011. The effect of exogenous and endogenous phytohormones on the *in vitro* development of gametophyte and sporophyte in *Asplenium nidus* L. *Acta Physiologiae Plantarum* 33(6): 2493-2500.
604. Meng, W., Y. C. F. Su, R. M. K. Saunders & M. L. Chye. 2011. The rice acyl-CoA-binding protein gene family: phylogeny, expression and functional analysis. *New Phytologist* 189(4): 1170-1184. [*Selaginella moellendorffii*]
605. Meng, Y. F., F. G. Wang, F. W. Xing & J. Y. Dai. 2011. Wild plant resources in Ung Kong Islands, Hong Kong. *Bulletin of Botanical Research* 31(5): 610-617.
606. Meng, Y. F., F. G. Wang, F. W. Xing & L. Fu. 2011. Study on plant species diversity and vegetation of Ung Kong Islands. *Plant Science Journal* 29(5): 561-569.

607. Mewari, N. & P. Kumar. 2011. Evaluation of antifungal potential of *Marchantia polymorpha* L., *Dryopteris filix-mas* (L.) Schott and *Ephedra foliata* Boiss. against phyto fungal pathogens. Archives of Phytopathology and Plant Protection 44(8): 804-812.
608. Meyer, W. M., III & N. W. Yeung. 2011. Trophic relationships among terrestrial molluscs in a Hawaiian rain forest: analysis of carbon and nitrogen isotopes. Journal of Tropical Ecology 27(4): 441-445. [*Cibotium*]
609. Meyer, W. M., III & R. H. Cowie. 2011. Distribution, movement, and microhabitat use of the introduced predatory snail *Euglandina rosea* in Hawaii: implications for management. Invertebrate Biology 130(4): 325-333.
610. Meyer, W. M., III, R. Ostertag & R. H. Cowie. 2011. Macro-invertebrates accelerate litter decomposition and nutrient release in a Hawaiian rainforest. Soil Biology and Biochemistry 43(1): 206-211. [*Cibotium*]
611. Miao, L., Y. Ma, R. Xu & W. Yan. 2011. Environmental biogeochemical characteristics of rare earth elements in soil and soil-grown plants of the Hetai goldfield, Guangdong Province, China. Environmental Earth Sciences 63(3): 501-511. [*Dicranopteris dichotoma*]
612. Miatto, R. C., I. A. Silva, D. M. Silva-Matos & R. H. Marrs. 2011. Woody vegetation structure of Brazilian Cerrado invaded by *Pteridium arachnoideum* (Kaulf.) Maxon (Dennstaedtiaceae). Flora 206(8): 757-762.
613. Michel, P., J. M. Overton, N. W. H. Mason, J. M. Hurst & W. G. Lee. 2011. Species-environment relationships of mosses in New Zealand indigenous forest and shrubland ecosystems. Plant Ecology 212(3): 353-367. [*Cyathea*, *Dicksonia*]
614. Milla, R. & P. B. Reich. 2011. Multi-trait interactions, not phylogeny, fine-tune leaf size reduction with increasing altitude. Annals of Botany 107(3): 455-465. [*Polystichum*]
615. Mishra, P. K., G. V. Raghuram, A. Bhargava, A. Ahirwar, R. Samarth, R. Upadhyaya, S. K. Jain & N. Pathak. 2011. *In vitro* and *in vivo* evaluation of the anticarcinogenic and cancer chemopreventive potential of a flavonoid-rich fraction from a traditional Indian herb *Selaginella bryopteris*. British Journal of Nutrition 106(8): 1154-1168.
616. Misra, R. C., H. K. Sahoo, A. K. Mahapatra & R. N. Reddy. 2011. Additions to the flora of Similipal Biosphere Reserve, Orissa, India. Journal of the Bombay Natural History Society 108(1): 69-76.
617. Miyabuchi, Y. & S. Sugiyama. 2011. 90,000-year phytolith record from tephra section at the northeastern rim of Aso caldera, Japan. Quaternary International 246: 239-246.
618. Moar, N. T., J. M. Wilmshurst & M. S. McGlone. 2011. Standardizing names applied to pollen and spores in New Zealand Quaternary palynology. New Zealand Journal of Botany 49(2): 201-229. [tree ferns]
619. Mohamad, S., N. M. Zin, H. A. Wahab, P. Ibrahim, S. F. Sulaiman, A. S. M. Zahariluddin & S. S. M. Noor. 2011. Antituberculosis potential of some ethnobotanically selected Malaysian plants. Journal of Ethnopharmacology 133(3): 1021-1026. [*Angiopteris evecta*]
620. Moisan, P., H. Niemeyer & H. Kerp. 2011. Lycopsids from the Upper Devonian of northern Chile with remarks on the geographical distribution of the morphogenus *Haplostigma* Seward. Palaeontologische Zeitschrift 85(3): 231-240.
621. Molgaard, P., J. G. Holler, B. Asar, I. Liberna, L. B. Rosenbaek, C. P. Jebjerg, L. Jorgensen, J. Lauritzen, A. Guzman, A. Adersen & H. T. Simonsen. 2011. Antimicrobial evaluation of Huilliche plant medicine used to treat wounds. Journal of Ethnopharmacology 138(1): 219-227. [*Blechnum chilense*]
622. Montesinos-Tubee, D. B. 2011. Floristic diversity of the upper river basin Tambo-Ichuna (Moquegua, Peru). Revista Peruana de Biología 18(1): 119-132.
623. Montoya, E., V. Rull & S. Nogue. 2011. Early human occupation and land use changes near the boundary of the Orinoco and the Amazon basins (SE Venezuela): Palynological evidence from El Pauji record. Palaeogeography Palaeoclimatology Palaeoecology 310(3-4): 413-426.

624. Montti, L., P. I. Campanello, M. Genoveva Gatti, C. Blundo, A. T. Austin, O. E. Sala & G. Goldstein. 2011. Understory bamboo flowering provides a very narrow light window of opportunity for canopy-tree recruitment in a neotropical forest of Misiones, Argentina. *Forest Ecology and Management* 262(8): 1360-1369.
625. Moore, S. J. & J. C. Wang. 2011. *Microlepia ravenii* (Dennstaedtiaceae, Pteridophyta) a new species from Vietnam. *Annales Botanici Fennici* 48(3): 284-287.
626. Morand, P., P. Robin, A. M. Pourcher, D. Oudart, S. Fievet, D. Luth, D. Cluzeau, B. Picot & B. Landrain. 2011. Design of an integrated piggery system with recycled water, biomass production and water purification by vermiculture, macrophyte ponds and constructed wetlands. *Water Science and Technology* 63(6): 1314-1320. [*Azolla caroliniana*]
627. Moreira, H., A. P. G. C. Marques, A. O. S. S. Rangel & P. M. L. Castro. 2011. Heavy metal accumulation in plant species indigenous to a contaminated portuguese site: prospects for phytoremediation. *Water Air and Soil Pollution* 221(1-4): 377-389. [*Pteridium aquilinum*]
628. Moreno, Z., D. Diaz, E. Reyes, S. Gonzalez & M. Alvarez-Mon. 2011. Photoprotective effect of a *Polypodium leucotomos* extract against ultraviolet radiation on human peripheral blood monocytes. *Journal of Investigative Dermatology* 131: S111.
629. Morimoto, J., M. Morimoto & F. Nakamura. 2011. Initial vegetation recovery following a blowdown of a conifer plantation in monsoonal East Asia: impacts of legacy retention, salvaging, site preparation, and weeding. *Forest Ecology and Management* 261(8): 1353-1361.
630. Morimoto, Y. 2011. Biodiversity and ecosystem services in urban areas for smart adaptation to climate change: "Do you Kyoto"? *Landscape and Ecological Engineering* 7(1): 9-16.
631. Morse, D. H. 2011. Size and development times of herbivorous host and parasitoid on distantly related foodplants. *American Midland Naturalist* 166(2): 252-265. [*Onoclea sensibilis*, *Thelypteris palustris*]
632. Morton, C. M. & L. Speedy. 2011. Checklist of the vascular plants of Indiana County, Pennsylvania. *Journal of the Botanical Research Institute of Texas* 5(2): 871-888.
633. Moser, J. & M. J. Broecker. 2011. Methods for nitrogenase-like dark operative protochlorophyllide oxidoreductase, **In** M. W. Ribbe (Eds.). *Nitrogen fixation: methods and protocols*. Humana Press, Totowa, NJ, pp. 129-143.
634. Moteetee, A. & B. E. Van Wyk. 2011. The medical ethnobotany of Lesotho: a review. *Bothalia* 41(1): 209-228.
635. Muccifora, S. & L. L. Bellani. 2011. Antheridial dehiscence in ferns. *Plant Systematics and Evolution* 297(1-2): 51-56.
636. Mukherjee, P. K., N. Satheeshkumar, P. Venkatesh & M. Venkatesh. 2011. Lead finding for acetyl cholinesterase inhibitors from natural origin: structure activity relationship and scope. *Mini-Reviews in Medicinal Chemistry* 11(3): 247-262. [*Lycopodium casuarinoides*]
637. Muthuraj, B. B. & R. W. A. Jesudasan. 2011. Impact of climatic factors on leaf roll-inducing mite, *Floracarus perrepae* (Acari: Eriophyidae) feeding on the Old World climbing fern, *Lygodium microphyllum* (Pteridophyta: Lygodiaceae). *International Journal of Acarology* 37(4): 325-330.
638. Mynssen, C. M. 2011. Woodsiaceae Herter (Polypodiopsida) no Estado do Rio Grande do Sul, Brasil. *Pesquisas. Botânica* 62: 273-297. [Portuguese, English abstract]
639. Nagy-Deri, H., E. R. Peli, K. Georgieva & Z. Tuba. 2011. Changes in chloroplast morphology of different parenchyma cells in leaves of *Haberlea rhodopensis* Friv. during desiccation and following rehydration. *Photosynthetica* 49(1): 119-126. [*Selaginella lepidophylla*]
640. Nahar, L., F. A. Ripa, R. Zahan, I. J. Bulbul & I. Parvej. 2011. Evaluation of analgesic and antidiarrhoeal effects of methanolic extract of *Marsilea quadrifolia* in rat. *Journal of Pharmacy Research* 4(12): 4374-4376.
641. Nakahara, K., K. Hirano, R. Maehata, Y. Kita & H. Fujioka. 2011. Asymmetric total synthesis of clavolonine. *Organic Letters* 13(8): 2015-2017. [*Lycopodium*]

642. Nakato, N. & A. Ebihara. 2011. Chromosome number of *Microlepia hookeriana* (Dennstaedtiaceae) and chromosome number evolution in the genus *Microlepia*. Bulletin of the National Museum of Nature and Science, Series B (Botany) 37: 75-78.
643. Nakato, N. & S. Hyodo. 2011. The origin of triploid *Pteris x sefurikola* (Pteridaceae) from Ehime Prefecture, Japan. Journal of Phytogeography and Taxonomy 58: 115-121. [Japanese]
644. Nardini, A., S. Salleo & S. Jansen. 2011. More than just a vulnerable pipeline: xylem physiology in the light of ion-mediated regulation of plant water transport. Journal of Experimental Botany 62(14): 4701-4718.
645. Nasen, L. C., B. F. Noble & J. F. Johnstone. 2011. Environmental effects of oil and gas lease sites in a grassland ecosystem. Journal of Environmental Management 92(1): 195-204. [*Lycopodium*]
646. Natarajan, S., R. H. Stamps, L. Q. Ma, U. K. Saha, D. Hernandez, Y. Cai & E. J. Zillioux. 2011. Phytoremediation of arsenic-contaminated groundwater using arsenic hyperaccumulator *Pteris vittata* L.: effects of frond harvesting regimes and arsenic levels in refill water. Journal of Hazardous Materials 185(2-3): 983-989.
647. Neff, J. L., J. W. Hagadorn, D. Sunderlin & C. J. Williams. 2011. Sedimentology, facies architecture and chemostratigraphy of a continental high-latitude Paleocene-Eocene succession-The Chickaloon Formation, Alaska. Sedimentary Geology 240(1-2): 14-29.
648. Nelson, M. L., C. C. Rhoades & K. A. Dwire. 2011. Influence of bedrock geology on water chemistry of slope wetlands and headwater streams in the southern Rocky Mountains. Wetlands 31(2): 251-261. [*Equisetum arvense*]
649. Nervo, M. H., P. G. Windisch & S. Seibert. 2011. Herbivory on *Pecluma pectinatiformis* (L.) Price (Polypodiopsida) by caterpillars of *Argyrostickta* Hubner (Lepidoptera) - a possible case of mimicry? American Fern Journal 101(4): 317-318.
650. Neyland, R. 2011. A field guide to the ferns and lycophytes of Louisiana: including east Texas, southern Arkansas, and Mississippi. Louisiana State University Press, Baton Rouge. Pp. 89.
651. Nguyen Thi Hoang, H., M. Sakakibara, S. Sano & N. Mai Trong. 2011. Uptake of metals and metalloids by plants growing in a lead-zinc mine area, Northern Vietnam. Journal of Hazardous Materials 186(2-3): 1384-1391. [*Pteris vittata*]
652. Niazi, N. K., B. Singh, L. Van Zwieten & A. G. Kachenko. 2011. Phytoremediation potential of *Pityrogramma calomelanos* var. *austroamericana* and *Pteris vittata* L. grown at a highly variable arsenic contaminated site. International Journal of Phytoremediation 13(9): 912-932.
653. Nierop, K. G. J., E. N. Speelman, J. W. de Leeuw & G. J. Reichart. 2011. The omnipresent water fern *Azolla caroliniana* does not contain lignin. Organic Geochemistry 42(7): 846-850.
654. Nishimura, T., A. K. Unni, S. Yokoshima & T. Fukuyama. 2011. Concise total synthesis of (+)-Lycanadin A. Journal of the American Chemical Society 133(3): 418-419. [*Lycopodium complanatum*]
655. Nitta, J. H., A. Ebihara & M. Ito. 2011. Reticulate evolution in the *Crepidomanes minutum* species complex. American Journal of Botany 98: 1782-1800.
656. Nitta, J. H., J. Y. Meyer & A. R. Smith. 2011. Pteridophytes of Mo'orea, French Polynesia: additional new records. American Fern Journal 101(1): 36-49.
657. Nobis, M. & A. Nowak. 2011. New data on the vascular flora of the central Pamir Alai Mountains (Tajikistan, Central Asia). Polish Botanical Journal 56(2): 195-201. [*Azolla filiculoides*]
658. Nóbrega, G. A., P. V. Eisenlohr, M. L. B. Paciência, J. Prado & M. P. M. Aidar. 2011. Ferns composition and diversity differ between Restinga and Lowland Rainforest areas in the Serra do Mar? Biota Neotropica 11: 133-144 [Portuguese, English abstract].
659. Nonato, F. R., T. M. Nogueira, T. A. Barros, A. M. Lucchese, C. E. Oliveira, R. R. Santos, M. B. Soares & C. F. Villarreal. 2011. Antinociceptive and antiinflammatory activities of *Adiantum*

- latifolium* Lam.: evidence for a role of IL-1 beta inhibition. *Journal of Ethnopharmacology* 136(3): 518-524.
660. Nor-Ezzawanis, A. T. 2011. Comparative anatomy of Grammitidaceae genera in Peninsular Malaysia. *Gardens' Bulletin* 63(1-2): 507-517.
661. Normand, S., R. E. Ricklefs, F. Skov, J. Bladt, O. Tackenberg & J. C. Svenning. 2011. Postglacial migration supplements climate in determining plant species ranges in Europe. *Proceedings of the Royal Society Biological Sciences Series B* 278(1725): 3644-3653.
662. Novgorodova, T. A. & O. B. Biryukova. 2011. Some ethological aspects of the trophobiotic interrelations between ants (Hymenoptera: Formicidae) and larvae of the sawfly *Blasticotoma filiceti* (Hymenoptera: Blasticotomidae). *European Journal of Entomology* 108(1): 47-52.
663. Nybakken, L., S. M. Sandvik & K. Klanderud. 2011. Experimental warming had little effect on carbon-based secondary compounds, carbon and nitrogen in selected alpine plants and lichens. *Environmental and Experimental Botany* 72(3): 368-376. [*Selaginella selaginoides*]
664. Ociepa, A. M. & M. Barbacka. 2011. *Spesia antarctica* gen. et sp. . nov. - a new fertile fern spike from the Jurassic of Antarctica. *Polish Polar Research* 32(1): 59-66.
665. Ohashi, K. & J. Okazaki. 2011. The seed plants and ferns in Takaida Yokoana Park, Kashiwara, Osaka, Japan. *Memoirs of Osaka Kyoiku University Series III Natural Science and Applied Science* 59(2): A5-A18.
666. Ohtaka, A., T. Narita, T. Kamiya, H. Katakura, Y. Araki, S. Im, R. Chhay & S. Tsukawaki. 2011. Composition of aquatic invertebrates associated with macrophytes in Lake Tonle Sap, Cambodia. *Limnology* 12(2): 137-144. [*Salvinia cucullata*]
667. O'Kennon, R. J. & G. M. Diggs, Jr. 2011. *Llavea cordifolia* (Pteridaceae), new for Texas and the United States. *Journal of the Botanical Research Institute of Texas* 5(1): 351-355.
668. Okoniewska, A., W. Donderski, M. Malecka-Adamowicz & L. Kubera. 2011. The distribution of psychrophilic and mesophilic bacteria in lobelia lakes Nawionek and Piecki located in the Zaborski Landscape Park. *Polish Journal of Natural Sciences* 26(3): 217-233. [*Isoetes lacustris*]
669. Oldekop, J. A., A. J. Bebbington, F. Berdel, N. K. Truelove, T. Wiersberg & R. F. Preziosi. 2011. Testing the accuracy of non-experts in biodiversity monitoring exercises using fern species richness in the Ecuadorian Amazon. *Biodiversity and Conservation* 20(12): 2615-2626.
670. Oldenkamp, R. E. & M. M. Douglas. 2011. Measuring the effects of "opportunistic defense" of the bracken fern, (*Pteridium aquilinum*) by patrolling ants (Hymenoptera: Formicidae) at Pierce Cedar Creek Institute in south central Michigan. *Great Lakes Entomologist* 44(1-2): 34-41.
671. Ootsuki, R. 2011. *Cyrtomium fortunei* (Dryopteridaceae) and its acquisition mechanisms. *Bunrui* 11: 161-164. [Japanese]
672. Ootsuki, R., W. Shinohara, T. Suzuki & N. Murakami. 2011. Genetic variation in the apogamous fern *Cyrtomium fortunei* (Dryopteridaceae). *APG Acta Phytotaxonomica et Geobotanica* 62(1): 1-14.
673. Orhan, I. E., G. Orhan & E. Gurkas. 2011. An overview on natural cholinesterase inhibitors - a multi-targeted drug class - and their mass production. *Mini-Reviews in Medicinal Chemistry* 11(10): 836-842. [*Huperzia serrata*]
674. Ortiz, J. E., A. Diaz-Bautista, J. Jose Aldasoro, T. Torres, J. L. R. Gallego, L. Moreno & B. Estebanez. 2011. n-Alkan-2-ones in peat-forming plants from the Ronanzas ombrotrophic bog (Asturias, northern Spain). *Organic Geochemistry* 42(6): 586-592.
675. Oswald, W. W. & D. R. Foster. 2011. A record of late-Holocene environmental change from southern New England, USA. *Quaternary Research* 76(3): 314-318. [*Isoetes*]
676. Otreba, P. & E. M. Gola. 2011. Specific intercalary growth of rhizophores and roots in *Selaginella kraussiana* (Selaginellaceae) is related to unique dichotomous branching. *Flora* 206(3): 227-232.

677. Ottone, E. G., D. Avellaneda & M. Koukharsky. 2011. Triassic plants and their relationships with the volcanism in the Agua de la Zorra Formation, Mendoza Province, Argentina. *Ameghiniana* 48(2): 177-188.
678. Ou, Y. D., Z. Y. Su, Z. K. Li & Y. H. Len. 2011. Effects of topographic factors on the distribution patterns of ground plants with different growth forms in montane forests in North Guangdong, China. *Chinese Journal of Applied Ecology* 22(5): 1107-1113.
679. Ouaja, M., G. Barale, M. Philippe & S. Ferry. 2011. Occurrence of an *in situ* fern grove in the Aptian Douiret formation, Tataouine area, South-Tunisia. *Geobios* 44(5): 473-479.
680. Padgurschi, M. D. G., L. D. Pereira, J. Y. Tamashiro & C. A. Joly. 2011. Floristic composition and similarities between areas of Montane Atlantic Rainforest, Sao Paulo, Brazil. *Biota Neotropica* 11(2): 139-152. [tree ferns]
681. Pajchel, L., P. Nykiel & W. Kolodziejski. 2011. Elemental and structural analysis of silicon forms in herbal drugs using silicon-29 MAS NMR and WD-XRF spectroscopic methods. *Journal of Pharmaceutical and Biomedical Analysis* 56(4): 846-850. [*Equisetum arvense*]
682. Pan, C., Y. G. Chen, X. Y. Ma, J. H. Jiang, F. He & Y. Zhang. 2011. Phytochemical constituents and pharmacological activities of plants from the genus *Adiantum*: a review. *Tropical Journal of Pharmaceutical Research* 10(5): 681-692.
683. Pan, L. T., J. H. Zhao & P. S. Wang. 2011. New fern materials from Guizhou. *Acta Botanica Boreali-Occidentalia Sinica* 31(6): 1264-1265. [*Pteris deltodon*, *Tectaria yunnanensis*]
684. Panda, A., D. Sahu & M. K. Misra. 2011. Plant biodiversity and ecology of selected aquatic vegetation of Odisha, India. *Proceedings of the Indian National Science Academy Part B Biological Sciences* 81(1): 134-147. [*Azolla pinnata*]
685. Pande, H. C. 2011. Ecological observations on the fern flora of Uttarakhand. *Phytotaxonomy* 11: 86-102.
686. Pande, H. C., C. Singh, P. Joshi & A. Kaur. 2011. Taxonomic observations on the genus *Pyrrosia* Mirbel from District Chamoli of Uttarakhand State (India). *Indian Forester* 137(9): 1082-1088.
687. Pande, H. C., P. Joshi, B. Kumar & H. Dwivedi. 2011. Studies on spore morphology of *Adiantum* L. from Tehri District of Uttarakhand. *Indian Forester* 137(8): 1040-1042.
688. Pang, R., Q. Xu, W. Ding & S. Zhang. 2011. Pollen assemblages of cultivated vegetation in central and southern Hebei Province. *Journal of Geographical Sciences* 21(3): 549-560. [*Selaginella sinensis*]
689. Pangtey, Y. P. S., G. S. Martolia & L. M. Tewari. 2011. Recollection of two rare ferns from Nainital District. *Indian Forester* 137(8): 1034-1036. [*Microlepia speluncae*, *Ophioglossum petiolatum*]
690. Pangtey, Y. P. S., G. S. Martolia & L. M. Tewari. 2011. *Lycopodiella cernua* (L.) Pic. Serm. (Family: Lycopodiaceae): an addition to the pteridophytic flora of Nainital Hills. *Indian Forester* 137(5): 657-659.
691. Pangtey, Y. P. S., G. S. Martolia & L. M. Tewari. 2011. On the recollection and distribution of *Thelypteris tenera* (Roxb. in Griff.) c.v. Morton ex Fraser-Jenk. (Family: Thelypteridaceae) in the west Himalaya. *Indian Journal of Forestry* 34: 217-220.
692. Pangty, K., N. Punetha, D. R. Lauren, D. J. Jensen & R. Somvanshi. 2011. Detection of ptaquiloside in certain ferns from the districts of Champawat and Pithoragarh, Uttarakhand (India). *Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences* 81(3) 341-347.
693. Pangua, E., I. Pérez-Ruzafa & S. Pajarón. 2011. Gametophyte features in a peculiar annual fern, *Anogramma leptophylla*. *Annales Botanici Fennici* 48: 465-472.
694. Park, N. H., C. W. Lee, J. H. Bae & Y. J. Na. 2011. Protective effects of amentoflavone on Lamin A-dependent UVB-induced nuclear aberration in normal human fibroblasts. *Bioorganic & Medicinal Chemistry Letters* 21(21): 6482-6484. [*Selaginella tamariscina*]

695. Park, S., D. Kang, Y. Kim, S. M. Lee, Y. Chung & K. Sung. 2011. Biosorption and growth inhibition of wetland plants in water contaminated with a mixture of arsenic and heavy metals. *Engineering in Life Sciences* 11(1): 84-93. [*Salvinia natans*]
696. Parra, G., K. Bradnam, A. B. Rose & I. Korf. 2011. Comparative and functional analysis of intron-mediated enhancement signals reveals conserved features among plants. *Nucleic Acids Research* 39(13): 5328-5337. [*Selaginella moellendorffii*]
697. Partomihardjo, T., J. Yukawa, N. Uechi & J. Abe. 2011. Arthropod galls found on the Krakatau Islands and in adjacent areas of Indonesia, with reference to faunistic disharmony between the islands and the whole of Indonesia. *Esakia* 50: 9-21. [*Nephrolepis biserrata*, *Nephrolepis hirsutula*]
698. Paul, R., T. Sen, U. Sen & R. Punetha. 2011. Toxic effect of heavy metal pollution on spore germination and gametophyte development in some ferns. *Indian Fern Journal* 28(1-2): 25-40.
699. Pavon, D. & E. Vela. 2011. Species new to Tunisia observed on small islands of the northern coast (the Galite and Zembra archipelagos, islets of Bizerte). *Flora Mediterranea* 21: 273-286. [*Asplenium marinum*, *Asplenium obovatum*]
700. Pawlikowski, P. 2011. *Botrychium virginianum* (Ophioglossaceae) rediscovered in Poland. *Polish Botanical Journal* 56(1): 81-84.
701. Peck, J. H. 2011. History of Arkansas pteridophyte studies with a new annotated checklist and floristic analysis. *Phytoneuron* 2011-38: 1-39.
702. Peck, J. H. 2011. New and noteworthy additions to the Arkansas fern flora. *Phytoneuron* 2011-30: 1-33.
703. Pedersen, O., C. Pulido, S. M. Rich & T. D. Colmer. 2011. *In situ* O-2 dynamics in submerged *Isoetes australis*: varied leaf gas permeability influences underwater photosynthesis and internal O-2. *Journal of Experimental Botany* 62(13): 4691-4700.
704. Pedersen, O., S. M. Rich, C. Pulido, G. R. Cawthray & T. D. Colmer. 2011. Crassulacean acid metabolism enhances underwater photosynthesis and diminishes photorespiration in the aquatic plant *Isoetes australis*. *New Phytologist* 190(2): 332-339.
705. Perata, P., W. Armstrong & L. A. C. J. Voesenek. 2011. Plants and flooding stress. *New Phytologist* 190(2): 269-273. [*Equisetum*]
706. Pereira, A. L., M. Martins, M. M. Oliveira & F. Carrapiço. 2011. Family Azollaceae: an integrative approach with vegetative and RAPD markers. 7th International Congress of Systematic and Evolutionary Biology (ICSEB VII), Berlin 21- 27 February 2011. Abstracts, p. 286 (Poster).
707. Pereira, A. L., M. Martins, M. M. Oliveira & F. Carrapiço. 2011. Morphological and genetic diversity of the family Azollaceae inferred from vegetative characters and RAPD markers. *Plant Systematics and Evolution* 297: 213-226.
708. Perrin, P. M., F. J. G. Mitchell & D. L. Kelly. 2011. Long-term deer exclusion in yew-wood and oakwood habitats in southwest Ireland: Changes in ground flora and species diversity. *Forest Ecology and Management* 262(12): 2328-2337.
709. Peterson, R. L., D. P. Whittier & L. H. Melville. 2011. Images of the morphology and anatomy of seedless vascular plants and gymnosperms. DVD. Canadian Science Publishing, Ottawa, Canada.
710. Phillips, T. L. & J. Galtier. 2011. Evolutionary and ecological perspectives of late Paleozoic ferns Part II. The genus *Ankyropteris* and the Tedeleaceae. *Review of Palaeobotany and Palynology* 164(1-2): 1-29.
711. Pilipavicius, V., R. Romaneckiene & K. Romaneckas. 2011. Crop stand density enhances competitive ability of spring barley (*Hordeum vulgare* L.). *Acta Agriculturae Scandinavica Section B Soil and Plant Science* 61(7): 648-660. [*Equisetum arvense*]
712. Pincheira-Ulbrich, J. 2011. Diversity patterns of climbing plants and vascular epiphytes in the Valdivian rain forest of South America: a synthesis between 2000 and 2010. *Phyton* 80: 9-18.

713. Pitt, D. G., A. Morneault, W. C. Parker, L. Lanteigne, M. K. Hoepting & A. Stinson. 2011. Influence of herbaceous and woody competition on white pine regeneration in a uniform shelterwood. *Forestry Chronicle* 87(5): 653-668.
714. Pittermann, J., E. Limm, C. Rico & M. Christman. 2011. Structure-function constraints of tracheid-based xylem: a comparison of conifers and ferns. *New Phytologist* 192(2): 449-461.
715. Ponce, M. & B. Zimmer. 2011. Nomenclature and revised typification of *Cheilanthes bonariensis* (Cheilantheae, Pteridaceae). *Taxon* 60(3): 866-867.
716. Porceddu, A. & S. Camiolo. 2011. Spatial analyses of mono, di and trinucleotide trends in plant genes. *PLoS One* 6(8): e22855. [*Selaginella*]
717. Pott, C. & S. McLoughlin. 2011. The Rhaetian flora of Rogla, Northern Scania, Sweden. *Palaeontology* 54(5): 1025-1051.
718. Pouny, I., C. Etievant, L. Marcourt, I. Huc-Dumas, M. Batut, F. Girard, M. Wright & G. Massiot. 2011. Protoflavonoids from ferns impair centrosomal integrity of tumor cells. *Planta Medica* 77(5): 461-466. [*Equisetum fluviatile*, *Phegopteris decursive-pinnata*]
719. Pouska, V., J. Leps, M. Svoboda & A. Lepsova. 2011. How do log characteristics influence the occurrence of wood fungi in a mountain spruce forest? *Fungal Ecology* 4(3): 201-209. [*Athyrium distentifolium*]
720. Povilauskas, L. 2011. Palynology of the Monte Chico Formation (Late Cretaceous) of Santa Cruz Province, Argentina: spores. *Revista Brasileira de Paleontologia* 14(3): 255-268.
721. Prado, J. & A. R. Smith. 2011. (2003) Proposal to conserve the name *Acrostichum ebeneum* (Pteridaceae) with a conserved type. *Taxon* 60: 593-594.
722. Prado, J. & R. Y. Hirai. 2011. *Pellaea flavescens* Fée in Rio de Janeiro, its lectotypification, and its new record for São Paulo State, Brazil. *American Fern Journal* 101(1): 50-52.
723. Prado, J., R. Y. Hirai & A. M. Giuletta. 2011. Mudanças no novo Código de Nomenclatura para algas, fungos e plantas (Código de Melbourne). *Acta Botanica Brasilica* 25: 729-731 [Portuguese].
724. Prasad, S. M. & A. Singh. 2011. Metabolic responses of *Azolla pinnata* to cadmium stress: photosynthesis, antioxidative system and phytoremediation. *Chemistry and Ecology* 27(6): 543-555.
725. Pratt, T. C. & L. M. O'Connor. 2011. An assessment of the health and historical changes of the nearshore fish community of the St. Marys River. *Journal of Great Lakes Research* 37(2): 61-69. [*Isoetes riparia*]
726. Pressell, S., K. M. Y. P'ng & J. G. Duckett. 2011. An ultrastructural study of the liverwort *Mizutania riccardioides* Furuki et Iwatsuki: new insights into its systematic affinities and unique surface ornamentation. *Bryologist* 114(1): 38-51.
727. Prusinkiewicz, P. 2011. Inherent randomness of cell division patterns. *Proceedings of the National Academy of Sciences of the United States of America* 108(15): 5933-5934.
728. Punetha, N., K. Bhakuni & R. Punetha. 2011. Habitat conservation: an underexplored aspect of Himalayan forests, **In** S. Kulshrestha (Ed.) *Proceedings of National Conference on Environmental Conservation*, Dehra Dun, India. pp. 9-19.
729. Punetha, N., K. Bhakuni & R. Punetha. 2011. Phenology of the 'royal fern' from Kumaon Himalaya and its bearing on the identity and taxonomy of the species. *Indian Fern Journal* 28(1-2): 41-47.
730. Pynee, K., E. Grangaud & G. Rouhan. 2011. *Actinostachys confusa*: an additional native fern species for the Mascarenes (Schizaeales: Schizaeaceae), *Cahiers Scientifiques de l'océan Indien occidental* 2: 29-33.
731. Qi, C., F. Wu, Q. Deng, G. Liu, C. Mo, B. Liu & J. Zhu. 2011. Distribution and accumulation of antimony in plants in the super-large Sb deposit areas, China. *Microchemical Journal* 97(1): 44-51. [*Equisetum ramosissimum*]

732. Qin, F., D. K. Ferguson, R. Zetter, Y. Wang, S. Syabryaj, J. Li, J. Yang & C. Li. 2011. Late Pliocene vegetation and climate of Zhangcun region, Shanxi, north China. *Global Change Biology* 17(5): 1850-1870.
733. Qin, S., K. Xing, J. H. Jiang, L. H. Xu & W. J. Li. 2011. Biodiversity, bioactive natural products and biotechnological potential of plant-associated endophytic actinobacteria. *Applied Microbiology and Biotechnology* 89(3): 457-473.
734. Quamar, M. F. & M. S. Chauhan. 2011. Pollen analysis of spider webs from Khedla village, Betul District, Madhya Pradesh. *Current Science* 101(12): 1586-1592.
735. Quan, C., Y. S. Liu & T. Utescher. 2011. Paleogene evolution of precipitation in northeastern China supporting the Middle Eocene intensification of the East Asian monsoon. *Palaios* 26(11-12): 743-753. [*Cyathea*, *Lygodium*]
736. Rabbani, N., R. Bajwa & A. Javaid. 2011. Influence of culturing conditions on growth and sporulation of *Drechslera hawaiiensis*, the foliar blight pathogen of *Marsilea minuta* L. *African Journal of Biotechnology* 10(10): 1863-1872.
737. Rabbani, N., R. Bajwa & A. Javaid. 2011. Interference of five problematic weed species with rice growth and yield. *African Journal of Biotechnology* 10(10): 1854-1862. [*Marsilea minuta*]
738. Radomski, P., K. Woizeschke, K. Carlson & D. Perleberg. 2011. Reproducibility of emergent plant mapping on lakes. *North American Journal of Fisheries Management* 31(1): 144-150. [*Equisetum fluviatile*]
739. Radulovic, S., D. Laketic & I. Teodorovic. 2011. A botanical classification of standing waters in Serbia and its application to conservation. *Aquatic Conservation* 21(6): 510-527. [*Salvinia natans*]
740. Rafii, M. S., S. Walsh, J. T. Little, K. Behan, B. Reynolds, C. Ward, S. Jin, R. Thomas & P. S. Aisen. 2011. A phase II trial of huperzine A in mild to moderate Alzheimer disease. *Neurology* 76(16): 1389-1394. [*Huperzia serrata*]
741. Rahman, M. A. & H. Hasegawa. 2011. Aquatic arsenic: phytoremediation using floating macrophytes. *Chemosphere* 83(5): 633-646. [*Azolla*]
742. Raj, A., A. K. Pandey, Y. K. Sharma, P. B. Khare, P. K. Srivastava & N. Singh. 2011. Metabolic adaptation of *Pteris vittata* L. gametophyte to arsenic induced oxidative stress. *Bioresource Technology* 102(20): 9827-9832.
743. Raj, P. K., V. Irudayaraj, M. Johnson & P. D. Raja. 2011. Phytochemical and anti-bacterial activity of epidermal glands extract of *Christella parasitica* (L.) H. Lev. *Asian Pacific Journal of Tropical Biomedicine* 1(1): 8-11.
744. Rajkumar, S. D., R. P. Gautum, S. K. Singh, S. K. Srivastava & D. K. Gond. 2011. *Ampelopteris prolifera* (Retz.) Copel. and *Sphaerostephanos unitus* (L.) Holttum: two new records of thelypteroid ferns from Uttar Pradesh. *Indian Journal of Forestry* 34: 225-228.
745. Raju, V. S., A. Ragan, S. Suthari & M. V. Ramana. 2011. On the identity and occurrence of *Ophioglossum costatum* (Pteridophyta: Ophioglossaceae) in Andhra Pradesh, India. *Journal of Threatened Taxa* 3(1): 1462-1464.
746. Rakotondrainibe, F. 2011. Synonymous between *Rumohra humbertii* Tardieu and *Arachniodes webbiana* (A. Braun) Schelpe subsp. *foliosa* (C. Chr.) Gibby, Rasbach, Reichst, Widen & Viane (vol 32, pg 227, 2010). *Adansonia* 33(1): 69.
747. Raman, A. 2011. Morphogenesis of insect-induced plant galls: facts and questions. *Flora* 206(6): 517-533.
748. Ramirez-Barahona, S., I. Luna-Vega & D. Tejero-Diez. 2011. Species richness, endemism, and conservation of American tree ferns (Cyatheales). *Biodiversity and Conservation* 20(1): 59-72.
749. Ramos Giacosa, J. P., M. A. Morbelli & G. E. Giudice. 2011. Spore morphology and wall ultrastructure of *Trachypteris* species (Pteridaceae). *Plant Systematics and Evolution* 294(3-4): 227-237.

750. Ramos, E., R. B. Torres, R. F. de Arruda Veiga & C. A. Joly. 2011. Study of the arboreal component in two areas of the Submontane Rainforest in Ubatuba, Sao Paulo State. *Biota Neotropica* 11(2): 313-335. [tree ferns]
751. Randall, J. A. & M. B. Walters. 2011. Deer density effects on vegetation in Aspen forest understories over site productivity and stand age gradients. *Forest Ecology and Management* 261(3): 408-415. [*Pteridium aquilinum*]
752. Ranil, R. H. G., D. K. N. G. Pushpakumara, T. Janssen, C. R. Fraser-Jenkins & D. S. A. Wijesundara. 2011. Conservation priorities for tree ferns (Cyatheaceae) in Sri Lanka. *Taiwania* 56(3): 201-209.
753. Rascio, N. & F. Navari-Izzo. 2011. Heavy metal hyperaccumulating plants: How and why do they do it? And what makes them so interesting? *Plant Science* 180(2): 169-181.
754. Rattmann, Y. D., S. C. Mendez-Sanchez, A. F. Furian, K. S. Paludo, L. M. de Souza, N. Dartora, M. S. Oliveira, E. M. D. S. Costa, O. G. Miguel, G. L. Sasaki, M. Iacomini, C. F. Mello, C. R. C. Franco, J. E. da Silva-Santos, S. M. S. C. Cadena, M. C. A. Marques & A. R. S. Santos. 2011. Standardized extract of *Dicksonia sellowiana* (Presl.) Hook (Dicksoniaceae) decreases oxidative damage in cultured endothelial cells and in rats. *Journal of Ethnopharmacology* 133(3): 999-1007.
755. Raul Gutierrez, P., A. Maria Zavattieri, M. Ezpeleta & R. A. Astini. 2011. Palynology of the La Veteada formation (Permian) in the Sierra de Narvaez, Catamarca Province, Argentina. *Ameghiniana* 48(2): 154-176.
756. Raulings, E. J., K. Morris, M. C. Roache & P. I. Boon. 2011. Is hydrological manipulation an effective management tool for rehabilitating chronically flooded, brackish-water wetlands? *Freshwater Biology* 56(11): 2347-2369. [*Azolla pinnata*]
757. Ravolainen, V. T., K. A. Brathen, R. A. Ims, N. G. Yoccoz, J. A. Henden & S. T. Killengreen. 2011. Rapid, landscape scale responses in riparian tundra vegetation to exclusion of small and large mammalian herbivores. *Basic and Applied Ecology* 12(8): 643-653. [*Equisetum*]
758. Ren, G. X., J. F. Liu, D. W. Xu, W. Hong, S. Q. Zheng & Z. S. Huang. 2011. Analysis on classification and species diversity of *Pinus taiwanensis* community in Daiyun Mountain National Nature Reserve. *Journal of Plant Resources and Environment* 20(3): 82-88. [*Dicranopteris linearis*, *Diplazium glaucum*, *Woodwardia japonica*]
759. Ren, S. J. & G. R. Yu. 2011. Carbon isotope composition ($\delta^{13}C$) of C-3 plants and water use efficiency in China. *Chinese Journal of Plant Ecology* 35(2): 119-124.
760. Ren, W., F. S. Chen, X. F. Hu, M. Q. Yu & X. Feng. 2011. Soil nitrogen transformations varied with plant community under Nanchang urban forests in mid-subtropical zone of China. *Journal of Forestry Research* 22(4): 569-576. [*Dicranopteris*]
761. Renison, D., I. Hensen & R. Suarez. 2011. Landscape structural complexity of high-mountain *Polylepis australis* forests: a new aspect of restoration goals. *Restoration Ecology* 19(3): 390-398.
762. Retallack, G. J. & C. Huang. 2011. Ecology and evolution of Devonian trees in New York, USA. *Palaeogeography Palaeoclimatology Palaeoecology* 299(1-2): 110-128.
763. Ribeiro, M. L. R. D., M. G. Santos, C. F. Barros & C. G. Costa. 2011. Intraspecific variation in four distinct populations of *Anemia villosa* Humb. & Bonpl. ex Willd. (Anemiaceae) occurring in Rio de Janeiro, Brazil. *American Fern Journal* 101(2): 70-80.
764. Ricco, R. A., I. Agudelo, M. Garces, P. Evelson, M. L. Wagner & A. A. Gurni. 2011. Polyphenols and antioxidant activity in *Equisetum giganteum* L. (Equisetaceae). *Boletín Latinoamericano y del Caribe de Plantas Medicinales y Aromaticas* 10(4): 325-332.
765. Rigon, J., J. Cordeiro & D. A. de Moraes. 2011. Composição e estrutura da sinúsia herbácea em um remanescente de floresta ombrófila mista em Guarapuava, Pr, Brasil. *Pesquisas Botânica* 62: 333-346. [Portuguese, *Ctenitis distans*]

766. Ristau, T. E., S. H. Stoleson, S. B. Horsley & D. S. deCalesta. 2011. Ten-year response of the herbaceous layer to an operational herbicide-shelterwood treatment in a northern hardwood forest. *Forest Ecology and Management* 262(6): 970-979.
767. Rizzotto, M. 2011. Flora of the Island of Gorgona (Tuscan Archipelago, Italy). *Webbia* 66(1): 85-118.
768. Rober, A. R., K. H. Wyatt & R. J. Stevenson. 2011. Regulation of algal structure and function by nutrients and grazing in a boreal wetland. *Journal of the North American Benthological Society* 30(3): 787-796. [*Equisetum fluviatile*]
769. Robert, Y. 2011. *Christella parasitica* (L.) H. Lev. ex Holttum (Thelypteridaceae, Pteridophyta), a new species for La Reunion. *Acta Botanica Gallica* 158(1): 71-77.
770. Robles-Zepeda, R. E., C. A. Velazquez-Contreras, A. Garibay-Escobar, J. C. Galvez-Ruiz & E. Ruiz-Bustos. 2011. Antimicrobial activity of northwestern Mexican plants against *Helicobacter pylori*. *Journal of Medicinal Food* 14(10): 1280-1283. [*Selaginella lepidophylla*]
771. Rocha, D. C. & D. Martins. 2011. Assessment of aquatic plants from Alagados Dam, Ponta Grossa-PR. *Planta Daninha* 29(2): 237-246.
772. Rodríguez Guitián, M. A., J. Ferreira da Costa, P. Ramil-Rego & G. Lijó Pose. 2011. Caracterización ambiental, demografía y amenazas para su conservación de la población lucense de *Culcita macrocarpa* C. Presl. (NW ibérico). *Recursos Rurais* 7: 15-25. [Spanish]
773. Rodríguez Romero, M. L., A. Zavala Hurtado & L. Pacheco. 2011. Presencia, abundancia y estrategias reproductivas de licopodios y helechos en áreas alteradas de la Sierra Nevada, Texcoco, Edo. de México, México. *Revista de Biología Tropical* 51(1): 417-433. [Spanish, English abstract]
774. Rodriguez, F. & H. Behling. 2011. Late Holocene vegetation, fire, climate and upper forest line dynamics in the Podocarpus National Park, southeastern Ecuador. *Vegetation History and Archaeobotany* 20(1): 1-14. [*Lycopodium*]
775. Rodriguez, P., G. Tell & H. Pizarro. 2011. Epiphytic algal biodiversity in humic shallow lakes from the lower Parana river basin (Argentina). *Wetlands* 31(1): 53-63. [*Azolla filiculoides*]
776. Rogozhin, E. A., I. I. Tepkeeva, D. V. Zaytsev, V. P. Demushkin & A. N. Smirnov. 2011. Biological activity of peptide extracts from medicine plants against phytopathogenic fungi and oomycetes. *Doklady Rossiiskoi Akademii Sel'skokhozyaistvennykh Nauk* 4: 34-37. [*Equisetum*]
777. Roivainen, P., S. Makkonen, T. Holopainen & J. Juutilainen. 2011. Soil-to-plant transfer of uranium and its distribution between plant parts in four boreal forest species. *Boreal Environment Research* 16(2): 158-166. [*Dryopteris carthusiana*]
778. Roivainen, P., S. Makkonen, T. Holopainen & J. Juutilainen. 2011. Transfer of elements relevant to radioactive waste from soil to five boreal plant species. *Chemosphere* 83(3): 385-390. [*Dryopteris carthusiana*]
779. Romero-Sarmiento, M. F., A. Riboulleau, M. Vecoli, F. Laggoun-Defarge & G. J. M. Versteegh. 2011. Aliphatic and aromatic biomarkers from Carboniferous coal deposits at Dunbar (East Lothian, Scotland): Palaeobotanical and palaeoenvironmental significance. *Palaeogeography Palaeoclimatology Palaeoecology* 309(3-4): 309-326.
780. Romo, J. T. 2011. Clubmoss, precipitation, and microsite effects on emergence of graminoid and forb seedlings in the semiarid Northern Mixed Prairie of North America. *Journal of Arid Environments* 75(2): 98-105. [*Selaginella densa*]
781. Ronderos, M. M., A. Borkent, P. I. Marino, G. R. Spinelli & R. L. Ferreira-Kepler. 2011. The previously unknown pupa and adult male of *Neobezzia fittkaui* Wirth & Ratanaworabhan (Diptera, Ceratopogonidae). *Revista Brasileira de Entomologia* 55(4): 467-474. [*Salvinia auriculata*]
782. Ronderos, M. M., P. I. Marino, F. Diaz & A. L. Estevez. 2011. Biting midges (Diptera: Ceratopogonidae) from Martin Garcia Island, Argentina. *Revista de Biología Tropical* 59(3): 1183-1194. [*Azolla filiculoides*, *Salvinia minima*]

783. Roos, K., H. G. Roedel & E. Beck. 2011. Short- and long-term effects of weed control on pastures infested with *Pteridium arachnoideum* and an attempt to regenerate abandoned pastures in south Ecuador. *Weed Research* 51(2): 165-176.
784. Roshchina, V. V., V. A. Yashin & I. M. Vikhlyantsev. 2011. Fluorescence of plant microspores as biosensors. *Biologicheskie Membrany* 28(6): 547-556. [*Equisetum arvense*]
785. Rossi, C. C., A. P. Aguilar, M. A. Nogueira Diaz & A. D. O. Barros Ribon. 2011. Aquatic plants as potential sources of antimicrobial compounds active against bovine mastitis pathogens. *African Journal of Biotechnology* 10(41): 8023-8030. [*Salvinia auriculata*]
786. Rouhan, G. & R. C. Moran. 2011. Revision of paleotropical *Megalastrum* (Dryopteridaceae). *Annals of the Missouri Botanical Garden* 98: 90-100.
787. Roux, J. P. 2011. The fern genera *Dryopteris* and *Nothoperanema* (Dryopteridaceae) in Madagascar and neighbouring Indian Ocean islands, including Saint Paul. *Adansonia* 33(1): 7-67.
788. Roux, J. P. 2011. The fern genus *Elaphoglossum* section *Lepidoglossa* (Dryopteridaceae) in Africa, Macaronesia, the mid-Atlantic and southern Indian Ocean Islands. *Botanical Journal of the Linnean Society* 165(1): 20-63.
789. Roux, J. P. 2011. The genus *Cyrtomium* (Pteridophyta: Dryopteridaceae) in Africa and Madagascar. *Botanical Journal of the Linnean Society* 167: 449-465.
790. Ruiz, M., P. Lopez-Alvarado, G. Giorgi & J. Carlos Menendez. 2011. Domino reactions for the synthesis of bridged bicyclic frameworks: fast access to bicyclo[n.3.1]alkanes. *Chemical Society Reviews* 40(7): 3445-3454. [*Huperzia serrata*]
791. Rull, V., E. Montoya, S. Nogue & O. Huber. 2011. Preliminary palynological analysis of a Holocene peat bog from Apakara-tepui (Chimanta Massif, Venezuelan Guayana). *Collectanea Botanica* 30: 79-88. [*Isoetes*]
792. Rumsey, F. J. & F. J. Roberts. 2011. A new *Hymenophyllum* hybrid from the British Isles: *Hymenophyllum x scopulorum* F.J. Rumsey & F.J. Roberts (*Hymenophyllum tunbrigense* (L.) Sm. x *H. wilsonii* Hook., Hymenophyllaceae). *New Journal of Botany* 1(2): 93-97.
793. Rundel, P. W. 2011. The diversity and biogeography of the alpine flora of the Sierra Nevada, California. *Madroño* 58: 153-184.
794. Ruszala, E. M., D. J. Beerling, P. J. Franks, C. Chater, S. A. Casson, J. E. Gray & A. M. Hetherington. 2011. Land plants acquired active stomatal control early in their evolutionary history. *Current Biology* 21(12): 1030-1035. [*Selaginella uncinata*]
795. Sabirova, N. D. & R. N. Sabirov. 2011. The reconstitution of the brush-woods of *Pteridium aquilinum* (Polypodiaceae) after harvesting. *Rastitel'nye Resursy* 47(2): 51-57.
796. Sacher, J. R. & S. M. Weinreb. 2011. Exploratory studies towards a total synthesis of the unusual bridged tetracyclic *Lycopodium* alkaloid lycoplidine H. *Tetrahedron* 67(52): 10203-10207.
797. Sahayaraj, K., S. K. R. Namasivayam & J. M. Rathi. 2011. Compatibility of entomopathogenic fungi with extracts of plants and commercial botanicals. *African Journal of Biotechnology* 10(6): 933-938. [*Pteridium aquilinum*]
798. Salino, A., R. S. Fernandes & M. R. Pietrobon. 2011. *Thelypteris amazonica* sp. nov. (Thelypteridaceae) from Amazonian Brazil. *Nordic Journal of Botany* 29(5): 611-614.
799. Salmi, M. L., A. ul Haque, T. J. Bushart, S. C. Stout, S. J. Roux & D. M. Porterfield. 2011. Changes in gravity rapidly alter the magnitude and direction of a cellular calcium current. *Planta* 233(5): 911-920. [*Ceratopteris richardii*]
800. Samecka-Cymerman, A., K. Kolon, A. Stankiewicz, J. Kaszewska, L. Mroz & A. J. Kempers. 2011. Rhizomes and fronds of *Athyrium filix-femina* as possible bioindicators of chemical elements from soils over different parent materials in southwest Poland. *Ecological Indicators* 11(5): 1105-1111.

801. Sánchez-Pérez, B. R., O. Castillo-Acosta & L. D. C. Camara-Cabrales. 2011. Natural regeneration of the high forest perennial flora in Agua Blanca State Park, Macuspana, Tabasco, Mexico. *Polibotanica* 32: 63-88. [Spanish; *Alsophila firma*, *Pityrogramma calomelanos*]
802. Sánchez-Viveros, G., R. Ferrera-Cerrato & A. Alarcón. 2011. Short-term effects of arsenate-induced toxicity on growth, chlorophyll and carotenoid contents, and total content of phenolic compounds of *Azolla filiculoides*. *Water Air and Soil Pollution* 217(1-4): 455-462.
803. Sanders, H. L., P. R. Darrah & J. A. Langdale. 2011. Sector analysis and predictive modelling reveal iterative shoot-like development in fern fronds. *Development* 138(14): 2925-2934.
804. Sanders, H., G. W. Rothwell & S. W. Wyatt. 2011. Parallel evolution of auxin regulation in rooting systems. *Plant Systematics and Evolution* 291: 221-225.
805. Sanginés-Franco, C., I. Luna-Vega, O. A. Ayala & R. Contreras-Medina. 2011. Distributional patterns and biogeographic analysis of ferns in the Sierra Madre Oriental, Mexico. *American Fern Journal* 101(2): 81-104.
806. Santos-Guerra, A., C. E. Jarvis, M. A. Carine, M. Maunder & J. Francisco-Ortega. 2011. Late 17th century herbarium collections from the Canary Islands: The plants collected by James Cuninghame in La Palma. *Taxon* 60(6): 1734-1753.
807. Santos-Silva, F., A. A. Mastroberti & J. E. D. Mariath. 2011. Development of the epidermal cells of the pinnules of *Adiantum raddianum* C.Presl (Pteridaceae): environmental adaptive plastidial characteristics. *American Fern Journal* 101(3): 172-181.
808. Saritha, M. K. & P. P. Tessa. 2011. Mangroves of Poyya backwaters of Thrissur district, Kerala, India. *Journal of the Marine Biological Association of India* 53(1): 8-13. [*Acrostichum aureum*]
809. Sarkar, K., P. Roy, R. Ghatak, A. Bhattacharjee & R. Mukhopadhyay. 2011. Antifungal response of phenols and crude extracts isolated from some thelypteroid ferns. *Bionature* 31(2):71-78.
810. Saxena, R. K. 2011. Validation of the names of two genera and thirty-nine species of fossil spores and pollen recorded from the Tertiary sediments of India. *Taxon* 60(3): 860-865.
811. Schaefer, H., M. A. Carine & F. J. Rumsey. 2011. From European priority species to invasive weed: *Marsilea azorica* (Marsileaceae) is a misidentified alien. *Systematic Botany* 36(4): 845-853.
812. Scheepers, K., L. Swemmer & W. J. Vermeulen. 2011. Applying adaptive management in resource use in South African National Parks: A case study approach. *Koedoe* 53(2): 999. [*Rumohra adiantiformis*]
813. Scheets, K., O. Blinkova, U. Melcher, M. W. Palmer, G. B. Wiley, T. Ding & B. A. Roe. 2011. Detection of members of the Tombusviridae in the Tallgrass Prairie Preserve, Osage County, Oklahoma, USA. *Virus Research* 160(1-2): 256-263. [*Pellaea atropurpurea*]
814. Schneider, P. & J. Schmitt. 2011. Composition, community structure and vertical distribution of epiphytic ferns on *Alsophila setosa* Kaulf., in a semideciduous seasonal forest, Morro Reuter, RS, Brazil. *Acta Botanica Brasilica* 25(3): 557-565.
815. Schooler, S., B. Salau, M. Julien & A. Ives. 2011. Alternative stable states explain unpredictable biological control of *Salvinia molesta* in Kakadu. *Nature* 470(7332): 86-89.
816. Schumann, N., A. Navarro-Quezada, K. Ullrich, C. Kuhl & M. Quint. 2011. Molecular evolution and selection patterns of plant F-box proteins with C-terminal kelch repeats. *Plant Physiology* 155(2): 835-850. [*Selaginella moellendorffii*]
817. Schwartzburd, P. B. & J. Prado. 2011. Proposal to conserve the name *Pteris arachnoidea* (*Pteridium arachnoideum*) against *Aspidium brasilianum* and *Pteris psittacina* (Dennstaedtiaceae). *Taxon* 60: 234-235.
818. Schwartzburd, P. B. & J. Prado. 2011. Typification of *Polypodium rugosulum* Labill. (= *Hypolepis rugosula*, Dennstaedtiaceae), a new subspecies, and a new status for one variety. *Webbia* 66: 155-163.

819. Sciessere, L., M. B. Cunha-Santino & I. Bianchini Jr. 2011. Cellulase and xylanase activity during the decomposition of three aquatic macrophytes in a tropical oxbow lagoon. *Brazilian Journal of Microbiology* 42(3): 909-918. [*Salvinia*]
820. Scipioni, M., C. Finger, E. Cantarelli, L. Denardi & E. Meyer. 2011. Phytosociological study in a forest fragment in the northwest of Rio Grande do Sul State. *Ciencia Florestal*, 21(3): 409-419.
821. Sebesta, J., P. Samonil, J. Lacina, F. Oulehle, J. Houska & A. Bucek. 2011. Acidification of primeval forests in the Ukraine Carpathians: vegetation and soil changes over six decades. *Forest Ecology and Management* 262(7): 1265-1279. [*Athyrium distentifolium*]
822. Seidl, D. E. & P. Klepeis. 2011. Human dimensions of earthworm invasion in the Adirondack State Park. *Human Ecology* 39(5): 641-655. [*Botrychium mormo*]
823. Selles, B., J. P. Jacquot & N. Rouhier. 2011. Comparative genomic study of protein disulfide isomerases from photosynthetic organisms. *Genomics* 97(1): 37-50.
824. Sen, A. & P. Ghosh. 2011. A note on the ethnobotanical studies of some pteridophytes in Assam. *Indian Journal of Traditional Knowledge* 10(2): 292-295.
825. Sen, K. & R. Mukhopadhyay. 2011. LM and SM Studies of stomatal morphotypes, epidermal characteristics and spore morphology of some species of *Cheilanthes* Sw. *Bioresearch Bulletin* 4: 51-57.
826. Sen, T., U. Sen, K. Chakraborti, S. Rahaman & R. Paul. 2011. Floral survey of ferns of Nadia district, West Bengal. *Indian Fern Journal* 28 (1-2): 85-104.
827. Senfeldr, M. & P. Madera. 2011. Population structure and reproductive strategy of Norway spruce (*Picea abies* L. Karst) above the former pastoral timberline in the Hruby Jeseník Mountains, Czech Republic. *Mountain Research and Development* 31(2): 131-143. [*Diphasiastrum alpinum*]
828. Shahriar, M. & S. Kabir. 2011. Analgesic activity of *Adiantum flabellulatum*. *Dhaka University Journal of Biological Sciences* 20(1): 91-93.
829. Shalimov, A. P., A. V. Vaganov & A. I. Shmakov. 2011. Spore morphology of *Polypodium* L. (Polypodiaceae J. Presl & C. Presl.) species from Russia. *Turczaninowia* 14: 5-14. [Russian]
830. Shao, W. & S. G. Lu. 2011. *Himalayopteris*, a new fern genus from India and adjacent Himalaya (Polypodiaceae, Polypodioideae). *Novon* 21(1): 90-93.
831. Shao, W., S. G. Lu & Q. C. Shang. 2011. Comparative morphology of leaf epidermis in the fern genus *Phymatopteris*. *Acta Botanica Yunnanica*. 33(2): 174-182.
832. Shao, W., S. G. Lu & Q. C. Shang. 2011. Taxonomic significance of scale characteristics in the fern genus *Phymatopteris* (Polypodiaceae). *Guihaia*. 31(1): 14-19.
833. Sharma, B. D. & S. N. Purohit. *Isoetes* L.: a unique lycopod. *Indian Fern Journal* 28(1-2): 76-84.
834. Sharma, B. D., D. R. Bohra, O. P. Suthar & R. Harsh. 2011. Phylogenetic importance of the study of Mesozoic pteridophytes from the Rajmahal Hills, Jharkhand, India. *Indian Fern Journal* 28(1-2): 137-147.
835. Shaw, A., B. Shaw & P. Szövényi. 2011. Bryophyte diversity and evolution: windows into the early evolution of land plants. *American Journal of Botany* 98(3): 352-369.
836. Shaw, S. W. & T. A. Ranker. 2011. New and improved leaf terminology for Gleicheniaceae. *American Fern Journal* 101(2):117-124.
837. Shedd, J. D., R. J. Bogiatto & S. A. Kirn. 2011. *Phrynosoma blainvillii* (coast horned lizard). Commensalism. *Herpetological Review* 42(1): 94-95. [*Selaginella hansenii*]
838. Sheil, D. 2011. An encounter with an African golden cat *Caracal aurata*: one of the World's least known felids. *African Journal of Ecology* 49(3): 367-369. [*Pteridium aquilinum*]
839. Sher, Z., Z. U. D. Khan & F. Hussain. 2011. Ethnobotanical studies of some plants of Chagharzai Valley, District Buner, Pakistan. *Pakistan Journal of Botany* 43(3): 1445-1452.
840. Shinwari, Z. K. & M. Qaiser. 2011. Efforts on conservation and sustainable use of medicinal plants of Pakistan. *Pakistan Journal of Botany* 43: 5-10. [*Dryopteris chrysocoma*]

841. Shoko, R., M. S. Rafudeen & J. M. Farrant. 2011. Proteomic characterisation of the heat stable proteins of rhizome tissues of the desiccation-sensitive form of the resurrection fern *Mohria caffrorum*. South African Journal of Botany 77(2): 578.
842. Sigel, E. M., M. D. Windham, L. Huiet, G. Yatskievych & K. M. Pryer. 2011. Species relationships and farina evolution in the cheilanthoid fern genus *Argyrochosma* (Pteridaceae). Systematic Botany 36: 554-564.
843. Sikander, M., S. Malik, D. Yadav, S. Biswas, D. P. Katare & S. K. Jain. 2011. Cytoprotective activity of a trans-chalcone against hydrogen peroxide induced toxicity in hepatocellular carcinoma (HepG2) cells. Asian Pacific Journal of Cancer Prevention 12(10): 2513-2516.
844. Silva, D. S., M. B. da Cunha-Santino & E. E. Marques. 2011. Decomposition and release dynamics of nitrogen and phosphorous from vegetal fractions of *Salvinia auriculata* Aubl. in a legal Amazon reservoir. Acta Scientiarum Biological Sciences 33(1): 21-29.
845. Silva, G. B., M. Ionashiro, T. B. Carrara, A. C. Crivellari, M. A. S. Tiné, J. Prado, N. C. Carpita & M. S. Buckeridge. 2011. Cell wall polysaccharides from fern leaves: evidence for a mannan-rich Type III cell wall in *Adiantum raddianum*. Phytochemistry 72: 2352-2360.
846. Silva, I., A. Pereira & I. Barros. 2011. Edge effects on fern community in an Atlantic forest remnant of Rio Formoso, PE, Brazil. Revista Brasileira de Biologia 71(2): 421-430.
847. Silva, M., A. Andrade-Silva & M. Silva. 2011. Long-term male aggregations of *Euglossa melanotricha* Moure (Hymenoptera: Apidae) on fern fronds *Serpocaulon triseriale* (Pteridophyta: Polypodiaceae). Neotropical Entomology 40(5): 548-552.
848. Silverio, M. L., M. A. Q. Cavalcanti & J. L. Bezerra. 2011. First record of *Leptomeliola uvariae* for South America. Mycotaxon 116: 1-5. [*Lygodium volubile*]
849. Simberloff, D., P. Genovesi, P. Pysek & K. Campbell. 2011. Recognizing conservation success. Science 332(6028): 419. [*Salvinia*]
850. Simon, A., A. Vanyolos, Z. Beni, M. Dekany, G. Toth & M. Bathori. 2011. Ecdysteroids from *Polypodium vulgare* L. Steroids 76(13): 1419-1424.
851. Simunek, Z. & C. J. Cleal. 2011. Imparipinnate neuropteroid foliage (Medullosales) from the middle Westphalian of the west and central Bohemia Coal Basin, Czech Republic. Review of Palaeobotany and Palynology 166(3-4): 163-201.
852. Singh, A. P. & P. B. Khare. 2011. Status of Ethno-pteridology in India. Applied Botany Abstracts 31(4): 332-361.
853. Singh, H. B. 2011. Plants associated in forecasting and beliefs within the Meitei community of Manipur, northeast India. Indian Journal of Traditional Knowledge 10(1): 190-193. [*Platyserium wallichii*]
854. Singh, H., M. Prasad, K. Kumar & S. K. Singh. 2011. Paleobotanical remains from the Paleocene-lower Eocene Vagadkhil formation, western India and their paleoclimatic and phytogeographic implications. Palaeoworld 20(4): 332-356.
855. Singh, H., P. Agnihotri, P. C. Pande & T. Husain. 2011. Biodiversity conservation through a traditional beliefs system in Indian Himalaya: a case study from Nakuleshwar sacred grove. Environmentalist 31(3): 246-253.
856. Singh, M. P. & T. N. Singh. 2011. Pteridophytic flora of Varanasi division. Indian Journal of Scientific Research 2(4): 131-132.
857. Singh, N., S. Kaur, P. M. S. Bedi & D. Kaur. 2011. Anxiolytic effects of *Equisetum arvense* Linn. extracts in mice. Indian Journal of Experimental Biology 49(5): 352-356.
858. Singh, O., V. R. R. Singh & V. Rattan. 2011. Natural regeneration problem in silver fir (*Abies pindrow*) and spruce (*Picea smithiana*) forests: solutions ahead. Indian Forester 137(6): 699-703. [allelopathy]
859. Singh, S. K., A. K. Singh, S. K. Verma, Sheeba, H. V. Singh & A. K. Mishra. 2011. Biochemical estimations in fern cultivars exposed to UV-B radiations. Advances in Plant Sciences 24(1): 235-239. [*Cheilanthes*]

860. Singh, Y. V., D. W. Dhar & B. Agarwal. 2011. Influence of organic nutrient management on Basmati rice (*Oryza sativa*)-wheat (*Triticum aestivum*)-greengram (*Vigna radiata*) cropping system. *Indian Journal of Agronomy* 56(3): 169-175. [Azolla]
861. Skog, J. E. & S. G. Weller. 2011. Reflections on the role of publications by scientific societies in celebration of the 25th year for *Acta Botanica Brasilica*. *Acta Botanica Brasilica* 25(2): 253-254.
862. Skog, J. E. 2011. Collections, cooperation, collaboration, consequences. *Biodiversity Informatics Standards (TDWG) Meeting Abstracts*.
<https://mbgserv18.mobot.org/ocs/index.php/tdwg/2011/paper/view/233>
863. Slater, B. J., S. McLoughlin & J. Hilton. 2011. Guadalupian (Middle Permian) megaspores from a permineralised peat in the Bainmedart Coal Measures, Prince Charles Mountains, Antarctica. *Review of Palaeobotany and Palynology* 167(1-2): 140-155.
864. Smith, D. R. 2011. Extending the limited transfer window hypothesis to inter-organelle DNA migration. *Genome Biology and Evolution* 3: 743-748. [*Selaginella moellendorffii*]
865. Smith, D. R., F. Burki, T. Yamada, J. Grimwood, I. V. Grigoriev, J. L. Van Etten & P. J. Keeling. 2011. The GC-rich mitochondrial and plastid genomes of the green alga *Coccomyxa* give insight into the evolution of organelle DNA nucleotide landscape. *PLoS One* 6(8): e23624. [*Selaginella moellendorffii*]
866. Smith, M. D., F. Vanegas, L. J. Handy, H. S. White & S. C. Schachter. 2011. Anticonvulsant and anti-nociceptive activity of Huperzine A, an alkaloid derivative from Chinese club moss (*Huperzia serrata*), are reversed by coadministration of atropine, but not propantheline bromide. *Society for Neuroscience Abstract Viewer and Itinerary Planner* 41.
867. Snow, N., T. A. Ranker & D. H. Lorence. 2011. Taxonomic changes in Hawaiian ferns and lycophytes. *Bishop Museum Occasional Papers* 109: 11-16.
868. Socolsky, C., E. Cartagena, Y. Asakawa & A. Bardón. 2011. Acylphloroglucinols from the fern *Elaphoglossum lindbergii*. *Arkivoc* 7: 450-460.
869. Socolsky, C., S. Borkosky & A. Bardón. 2011. Structure-molluscicidal activity relationships of acylphloroglucinols from ferns. *Natural Product Communications* 6(3): 387-391.
870. Somchit, M. N., H. Hassan, A. Zuraini, L. C. Chong, Z. Mohamed & Z. A. Zakaria. 2011. *In vitro* anti-fungal and anti-bacterial activity of *Drymoglossum piloselloides* L. Presl. against several fungi responsible for Athlete's foot and common pathogenic bacteria. *African Journal of Microbiology Research* 5(21): 3537-3541.
871. Sood, A., P. K. Singh, A. Kumar, R. Singh & R. Prasanna. 2011. Growth and biochemical characterization of associations between cyanobionts and wheat seedlings in co-culturing experiments. *Biologia* 66(1): 104-110. [Azolla pinnata]
872. Sood, A., S. Pabbi & P. L. Uniyal. 2011. Effects of paraquat on lipid peroxidation and antioxidant enzymes in aquatic fern *Azolla microphylla*. *Russian Journal of Plant Physiology* 58(4): 667-673.
873. Springer, S. 2011. Just outside the city - the plants of Isar valley. *Berichte der Bayerischen Botanischen Gesellschaft zur Erforschung der Heimischen Flora* 81(152-155). [*Asplenium scolopendrium*, *Polypodium vulgare*, *Polystichum lonchitis*]
874. Sprunck, S. & R. Groß-Hardt. 2011. Nuclear behavior, cell polarity, and cell specification in the female gametophyte. *Sexual Plant Reproduction* 24(2): 123-136.
875. Sprunt, S. V., H. Schneider, L. E. Watson, S. J. Russell, A. Navarro-Gomez & R. J. Hickey. 2011. Exploring the molecular phylogeny and biogeography of *Pleopeltis polypodioides* (Polypodiaceae, Polypodiales) inferred from plastid DNA sequences. *Systematic Botany* 36(4): 862-869.
876. Srivastava, A. K., V. A. Krassilov & D. Agnihotri. 2011. Peltasperms in the Permian of India and their reconstruction and climatic interpretation. *Palaeogeography Palaeoclimatology Palaeoecology* 310(3-4): 393-399.

877. Srivastava, S. K. 2011. Spore-pollen biostratigraphy of the English Jurassic. *Palaeontographica Abteilung B Palaeophytologie* 285(4-6): 113-201.
878. Stachowicz-Rybka, R. 2011. Flora and vegetation changes on the basis of plant macroremains analysis from an early Pleistocene lake of the Augustow Plain, NE Poland. *Acta Palaeobotanica* 51(1): 39-98. [*Azolla filiculoides*, *Salvinia natans*]
879. Staniforth, R. J. 2011. Ophioglossid ferns in Manitoba: moonworts, grapeferns and northern adder's-tongue. *Blue Jay* 69(2): 75-87.
880. Stewart, C. E., J. C. Neff, K. L. Amatangelo & P. M. Vitousek. 2011. Vegetation effects on soil organic matter chemistry of aggregate fractions in a Hawaiian Forest. *Ecosystems* 14(3): 382-397.
881. Stilwell, J. D. & J. A. Long. 2011. The age of fish and ferns, **In** J. D. Stilwell & J. A. Long (Eds.). *Frozen in time: prehistoric life in Antarctica*. CSIRO Publishing, Collingwood, Australia. pp. 55-80.
882. Stone, L. 2011. Theoretical ecology: Waltz of the weevil. *Nature* 470(7332): 47-49. [*Salvinia molesta*]
883. Su, T., F. B. Jacques, Y. Liu, J. Xiang, Y. Xing, Y. Huang & Z. Zhou. 2011. A new *Drynaria* (Polypodiaceae) from the Upper Pliocene of southwest China. *Review of Palaeobotany and Palynology* 164(1-2): 132-142.
884. Sudova, R., J. Rydlova, M. Ctvrtlikova, P. Havranek & L. Adamec. 2011. The incidence of arbuscular mycorrhiza in two submerged *Isoetes* species. *Aquatic Botany* 94(4): 183-187.
885. Sugai, Y., Y. Ueno, K. I. Hayashi, S. Oogami, T. Toyomasu, S. Matsumoto, M. Natsume, H. Nozaki & H. Kawaide. 2011. Enzymatic ¹³C labeling and multidimensional NMR analysis of miltiradiene synthesized by bifunctional diterpene cyclase in *Selaginella moellendorffii*. *Journal of Biological Chemistry* 286(50): 42840-42847.
886. Sugiyama, Y. & A. Kadota. 2011. Photosynthesis-dependent but Neochrome1-independent light positioning of chloroplasts and nuclei in the fern *Adiantum capillus-veneris*. *Plant Physiology* 155(3): 1205-1213.
887. Sullivan, P., L. Postle & M. Julien. 2011. Biological control of *Salvinia molesta* by *Cyrtobagous salviniae* in temperate Australia. *Biological Control* 57(3): 222-228.
888. Sun, L., X. Yan, X. Liao, Y. Wen, Z. Chong & T. Liang. 2011. Interactions of arsenic and phenanthrene on their uptake and antioxidative response in *Pteris vittata* L. *Environmental Pollution* 159(12): 3398-3405.
889. Sun, Y. J., X. H. Mo, X. H. Xu, M. Y. Ding, W. B. Liao & C. J. Ye. 2011. Characteristics of *Osmunda vachellii* communities and species diversity from Mount Maluanshan in Shenzhen. *Bulletin of Botanical Research* 31(1): 67-72.
890. Sundue, M. A. 2011. *Pityrogramma opalescens* (Pteridaceae), a new species from Cerro del Torra, Colombia. *American Fern Journal* 101(4): 252-260.
891. Sundue, M. A., A. Vasco & R. C. Moran. 2011. Cryptochlorophyllous spores in ferns: nongreen spores that contain chlorophyll. *International Journal of Plant Sciences* 172(9): 1110-1119.
892. Swieta-Musznicka, J., M. Latalowa, J. Szmeja & M. Badura. 2011. *Salvinia natans* in medieval wetland deposits in Gdansk, northern Poland: evidence for the early medieval climate warming. *Journal of Paleolimnology* 45(3): 369-383.
893. Tack, W., M. Madder, P. de Frenne, M. Vanhellefont, R. Gruwez & K. Verheyen. 2011. The effects of sampling method and vegetation type on the estimated abundance of *Ixodes ricinus* ticks in forests. *Experimental and Applied Acarology* 54(3): 285-292. [*Pteridium*]
894. Taha, R. M., N. W. Haron & S. N. Wafa. 2011. Morphological and tissue culture studies of *Platyserium coronarium*, a rare ornamental fern species from Malaysia. *American Fern Journal* 101(4): 241-251.
895. Tájek, P., A. Bucharová & Z. Münzbergová. 2011. Limitation of distribution of two rare ferns in fragmented landscape. *Acta Oecologica* 37(5): 495-502.

896. Takatsuki, S., M. Kobayashi & A. Katayama. 2011. Rumen contents of the sika deer in Wakayama Prefecture, southern Honshu: A new demonstration of latitudinal variations of the food habits. *Mammal Study* 36(2): 73-77.
897. Tam, T. W., R. Liu, J. T. Arnason, A. Krantis, W. A. Staines, P. S. Haddad & B. C. Foster. 2011. Cree antidiabetic plant extracts display mechanism-based inactivation of CYP3A4. *Canadian Journal of Physiology and Pharmacology* 89(1): 13-23. [*Lycopodium clavatum*]
898. Tan, B., F. Z. Wu, W. Q. Yang, Y. L. Yang, A. Wang & L. N. Kang. 2011. Effects of snow pack removal on the dynamics of winter-time soil temperature, carbon, nitrogen, and phosphorus in alpine forests of west Sichuan. *Chinese Journal of Applied Ecology* 22(10): 2553-2559. [*Cystopteris montana*]
899. Tan, C. Y., X. Q. Shan, G. Z. Xu, Y. M. Lin & Z. L. Chen. 2011. Phytoaccumulation of cadmium through *Azolla* from aqueous solution. *Ecological Engineering* 37(11): 1942-1946.
900. Tanaka, H. & T. Itioka. 2011. Ants inhabiting myrmecophytic ferns regulate the distribution of lianas on emergent trees in a Bornean tropical rainforest. *Biology Letters* 7(5): 706-709.
901. Tanew, A., S. Radakovic, S. Gonzalez, E. Reyes, M. Venturini & P. Calzavara-Pinton. 2011. Oral administration of a hydrophilic extract of *Polypodium leucotomos* for the prevention of polymorphic light eruption. *Journal of Investigative Dermatology* 131(1): S83.
902. Tanneberger, F., J. Bellebaum, M. Dylawerski, T. Fartmann, S. Jurzyk-Nordlow, I. Koska, C. Tegetmeyer & M. Wojciechowska. 2011. Habitats of the globally threatened Aquatic Warbler (*Acrocephalus paludicola*) in Pomerania - site conditions, flora, and vegetation characteristics. *Plant Diversity and Evolution* 129(3-4): 253-273. [*Thelypteris palustris*]
903. Tapwal, A., Nisha, S. Garg, N. Gautam & R. Kumar. 2011. *In vitro* antifungal potency of plant extracts against five phytopathogens. *Brazilian Archives of Biology and Technology* 54(6): 1093-1098. [*Adiantum venustum*, *Polystichum squarrosom*]
904. Tchórzewska, D. & J. Bednara. 2011. The dynamics of the actin cytoskeleton during sporogenesis in *Psilotum nudum* L. *Protoplasma* 248(2): 289-298.
905. Teangpook, C. & U. Paosangtong. 2011. The production and shelf life of high-iron, pre-cooked rice porridge with ferrous sulphate and other high-iron materials. *Maejo International Journal of Science and Technology* 5(2): 279-291. [edible ferns]
906. Tejero-Díez, D., A. Torres-Díaz, J. T. Mickel, K. Mehltreter & T. Krömer. 2011. Helechos y licopodios, In A. Cruz, F. G. Lorea, V. Hernández & J. E. Morales (Eds.). *La biodiversidad en Veracruz: Estudio de Estado Vol. II. Diversidad de especies: conocimiento actual*. CONABIO, Gobierno del Estado de Veracruz, Universidad Veracruzana, Instituto de Ecología, A.C. pp. 97-115. [Spanish]
907. Testo, W. L. & J. E. Watkins Jr. . 2011. Comparative development and gametophyte morphology of the hart's-tongue fern, *Asplenium scolopendrium* L. *Journal of the Torrey Botanical Society* 138(4): 400-408.
908. Tewari, S. & S. J. Johnson. 2011. Impact of two herbivores, *Samea multiplicalis* (Lepidoptera: Crambidae) and *Cyrtobagous salvinae* (Coleoptera: Curculionidae), on *Salvinia minima* in south Louisiana. *Journal of Aquatic Plant Management* 49: 36-43.
909. Tha Goh, K., L. Matia-Merino, D. N. Pinder, C. Saavedra & H. Singh. 2011. Molecular characteristics of a novel water-soluble polysaccharide from the New Zealand black tree fern (*Cyathea medullaris*). *Food Hydrocolloids* 25(3): 286-292.
910. Theilade, I., L. Schmidt, P. Chhang & J. A. McDonald. 2011. Evergreen swamp forest in Cambodia: floristic composition, ecological characteristics, and conservation status. *Nordic Journal of Botany* 29(1): 71-80. [*Cibotium barometz*]
911. Thuy-Duong, N. P., E. J. Kim, S. H. Hahn, W. J. Kim & E. W. Shin. 2011. Synthesis of hierarchical rose bridal bouquet- and humming-top-like TiO₂ nanostructures and their shape-dependent degradation efficiency of dye. *Journal of Colloid and Interface Science* 356(1): 138-144. [ornamental ferns]

912. Tobar-Vargas, A. & B. Gavio. 2011. First record of *Pteridium caudatum* (Dennstaedtiaceae) in Old Providence Island, Colombia. *Acta Biologica Colombiana* 16(1): 225-231.
913. Toledo, J. & J. Penha. 2011. Performance of *Azolla caroliniana* Willd. and *Salvinia auriculata* Aubl. on fish farming effluent. *Revista Brasileira de Biologia* 71(1): 37-45.
914. Torres, S., J. E. Sayago, R. M. Ordonez & M. Ines Isla. 2011. A colorimetric method to quantify endo-polygalacturonase activity. *Enzyme and Microbial Technology* 48(2): 123-128.
915. Torres, E. I. M. 2011. Lectotypification of *Asplenium sellowianum* C. Presl ex Hieron. and related names. *American Fern Journal* 101(2): 125-126.
916. Troth, I., J. E. A. Marshall, A. Racey & R. T. Becker. 2011. Devonian sea-level change in Bolivia: A high palaeolatitude biostratigraphical calibration of the global sea-level curve. *Palaeogeography Palaeoclimatology Palaeoecology* 304(1-2): 3-20.
917. Tsuboi, H. & M. Wada. 2011. Chloroplasts can move in any direction to avoid strong light. *Journal of Plant Research* 124(1): 201-210. [*Adiantum capillus-veneris*]
918. Tsukasa, I. & S. Matsumoto. 2011. Flavonoid properties of six *Asplenium* species in Vanuatu and New Caledonia, and distribution of flavonoid and related compounds in *Asplenium*. *Bulletin of the National Museum of Nature and Science, Series B* 37(3): 133-145
919. Tsumbu, C. N., G. Deby-Dupont, M. Tits, L. Angenot, T. Franck, D. Serteyn & A. Mouithys-Mickalad. 2011. Antioxidant and antiradical activities of *Manihot esculenta* Crantz (Euphorbiaceae) leaves and other selected tropical green vegetables investigated on lipoperoxidation and phorbol-12-myristate-13-acetate (PMA) activated monocytes. *Nutrients* 3(9): 818-838. [*Pteridium aquilinum*]
920. Tsutsumi, C., S. Matsumoto, Y. Yatabe, Y. Hirayama & M. Kato. 2011. A new allotetraploid species of *Osmunda* (Osmundaceae). *Systematic Botany* 36: 836-844.
921. Tu, S., L. Ma & B. Rathinasabapathi. 2011. Characterization of phytase from three ferns with differing arsenic tolerance. *Plant Physiology and Biochemistry* 49(2): 146-150.
922. Tung, C. P., F. R. Chang, Y. C. Wu, D. W. Chuang, A. Hunyadi & S. T. Liu. 2011. Inhibition of the Epstein-Barr virus lytic cycle by protoapigenone. *Journal of General Virology* 92(8): 1760-1768. [*Macrothelypteris torresiana*]
923. Tuovinen, T. S., P. Roivainen, S. Makkonen, M. Kolehmainen, T. Holopainen & J. Juutilainen. 2011. Soil-to-plant transfer of elements is not linear: Results for five elements relevant to radioactive waste in five boreal forest species. *Science of the Total Environment* 410: 191-197. [*Dryopteris carthusiana*]
924. Turland, N. 2011. The need for nomenclature for precise communication, **In** T. F. Stuessy & H. W. Lack (Eds.). *Monographic plant systematics: fundamental assessment of plant biodiversity*. Gantner Verlag, Koenigstein, Germany, pp. 139-178. [*Ophioglossum*]
925. Uddin, S. J., T. L. Jason, K. D. Beattie, D. I. Grice & E. Tiralongo. 2011. Isolation of novel cytotoxic compounds from *Acrostichum aureum*, a Bangladeshi medicinal plant. *Journal of Pharmacological Sciences* 115(1): 178.
926. Uddin, S. J., T. L. Jason, K. D. Beattie, I. D. Grice & E. Tiralongo. 2011. (2S,3S)-sulfated pterosin C, a cytotoxic sesquiterpene from the Bangladeshi mangrove fern *Acrostichum aureum*. *Journal of Natural Products* 74(9): 2010-2013.
927. Ueda, J. 2011. Jasmonic acid and its related compounds, **In** S. S. Narwal, L. Szajdak & D. A. Sampietro (Eds.). *Soil allelochemicals*. Studium Press, Houston, TX. pp. 407-423.
928. Ugarkovic, D., I. Tikvic & Z. Seletkovic. 2011. Correlation of habitat and structural factors with dieback and nutrition of silver fir (*Abies alba* Mill.) in Gorski Kotar. *Croatian Journal of Forest Engineering* 32(1): 57-71. [*Blechnum*]
929. Ugarkovic, D., I. Tikvic, Z. Seletkovic, M. Orsanic, I. Seletkovic, M. Blazinkov, M. M. Fuka & S. Redzepovic. 2011. Microbiological characteristics of the soils and natural regeneration of forest gaps within damaged forest ecosystems of the silver fir (*Abies alba* Mill.) in Gorski Kotar. *Sumarski List* 135(3-4): 99-111. [*Blechnum*]

930. Upadhyay, R., B. P. Singh & S. T. Upadhyay. 2011. Ethno-medicinal observations on a threatened tree fern *Cyathea spinulosa* Wall. ex Hook. in Satpura Hills. *Indian Fern Journal* 28(1-2): 129-136.
931. Uprety, Y., R. C. Poudel, H. Asselin & E. Boon. 2011. Plant biodiversity and ethnobotany inside the projected impact area of the Upper Seti hydropower project, western Nepal. *Environment Development and Sustainability* 13(3): 463-492.
932. Vaez-Javadi, F. 2011. Middle Jurassic flora from the Dansirit formation of the Shemshak group, Alborz, north Iran. *Alcheringa* 35(1): 77-102.
933. Vaganov, A. V., A. A. Kuznetsov & A. I. Shmakov. 2011. Taxonomy and morphology *Llavea cordifolia* Lag. (Cryptogrammales). *Turczaninowia* 14: 19-22. [Russian]
934. Valencia-Avalos, S., R. Cruz-Duran, M. Martinez-Gordillo & J. Jimenez-Ramirez. 2011. The flora of the city of Atenango del Rio, Estado de Guerrero, Mexico. *Polibotanica* 32: 9-39. [Spanish]
935. Valiranta, M., J. Weckstrom, S. Siitonen, H. Seppa, J. Alkio, S. Juutinen & E. S. Tuittila. 2011. Holocene aquatic ecosystem change in the boreal vegetation zone of northern Finland. *Journal of Paleolimnology* 45(3): 339-352. [*Equisetum fluviatile*]
936. Van Couwenberghe, R., C. Collet, E. Lacombe & J. C. Gegout. 2011. Abundance response of western European forest species along canopy openness and soil pH gradients. *Forest Ecology and Management* 262(8): 1483-1490. [*Pteridium aquilinum*]
937. Van der Ham, R. W. J. M., J. H. A. van Konijnenburg-van Cittert, B. N. Kieft & A. Walsmit Sachs. 2011. *Mosacaulis spinifer* gen. et sp. nov.: an enigmatic Maastrichtian plant. *Review of Palaeobotany and Palynology* 168(1): 51-67.
938. Van der Weele, C. M. & S. M. Wolniak. 2011. RTR functions in transcriptional silencing during the division phase of male gametophyte development of *Marsilea vestita*. *Molecular Biology of the Cell* 22(502).
939. van Eeden, L., J. Di Stefano & G. Coulson. 2011. Diet selection by the brush-tailed rock-wallaby (*Petrogale penicillata*) in East Gippsland, Victoria. *Australian Mammalogy* 33(2): 162-168.
940. Vanessa Lencinas, M., G. Martinez Pastur, E. Gallo & J. Manuel Cellini. 2011. Alternative silvicultural practices with variable retention to improve understory plant diversity conservation in southern Patagonian forests. *Forest Ecology and Management* 262(7): 1236-1250.
941. Varaprasadham, I. & J. Marimuthu. 2011. Studies on isozymic variation among the south Indian species *Sphaerostephanos*. *Asian Pacific Journal of Tropical Biomedicine* 1(4): 295-297.
942. Vasco, A. 2011. Taxonomic revision of *Elaphoglossum* subsection *Muscosa* (Dryopteridaceae). *Blumea* 56: 165-202.
943. Vasheka O. 2011. Collection of hardy Athyriaceae ferns in O.V. Fomin Botanical Garden. *Proceedings of the Taras Shevchenko Kyiv National University. Vol. Introduction and plant diversity conservation* 29: 16-18. [Ukrainian]
944. Vasques, D. T. & J. Prado. 2011. *Campyloneurum* C. Presl (Polypodiaceae) in Sao Paulo State, Brazil. *Hoehnea* 38(2): 147-163.
945. Vavrdova, M. & J. Daskova. 2011. Middle Devonian palynomorphs from southern Moravia: an evidence of rapid change from terrestrial deltaic plain to carbonate platform conditions. *Geologica Carpathica* 62(2): 109-119.
946. Veitch, N. C. & R. J. Grayer. 2011. Flavonoids and their glycosides, including anthocyanins. *Natural Product Reports* 28(10): 1626-1695.
947. Velazco Macias, C. G., G. J. Alanis Flores & M. A. Alvarado Vazquez. 2011. First record of *Blechnum appendiculatum* (Pteridophyta: Blechnaceae) for the state of Nuevo Leon, Mexico. *Revista Mexicana de Biodiversidad* 82(2): 701-703.
948. Verma, S. C. & P. B. Khullar. 2011. Book review: Pteridophytes in Andhra Pradesh. *Indian Fern Journal* 28(1-2): 218-220.

949. Vesely, T., P. Tlustos & J. Szakova. 2011. The use of water lettuce (*Pistia stratiotes* L.) for rhizofiltration of a highly polluted solution by cadmium and lead. *International Journal of Phytoremediation* 13(9): 859-872. [*Azolla filiculoides*, *Salvinia auriculata*, *Salvinia minima*]
950. Vibrans, A. C., L. Sevegnani, A. Uhlmann, L. A. Schorn, M. G. Sobral, A. L. de Gasper, D. V. Lingner, E. Brogni, G. Klemz, M. B. Godoy & M. Verdi. 2011. Structure of mixed ombrophylloous forests with *Araucaria angustifolia* (Araucariaceae) under external stress in southern Brazil. *Revista de Biologia Tropical* 59(3): 1371-1387. [tree ferns]
951. Vieira, M., E. Pocas, J. Pais & D. Pereira. 2011. Pliocene flora from S. Pedro da Torre deposits (Minho, NW Portugal). *Geodiversitas* 33(1): 71-85.
952. Villanueva-Amadoz, U., L. Miguel Sender, J. Bienvenido Diez, J. Ferrer & D. Pons. 2011. Palynological studies of the boundary marls unit (Albian-Cenomanian) from northeastern Spain. Paleophytogeographical implications. *Geodiversitas* 33(1): 137-176.
953. Volkova, L., L. Bennett & M. Tausz. 2011. Diurnal and seasonal variations in photosynthetic and morphological traits of the tree ferns *Dicksonia antarctica* (Dicksoniaceae) and *Cyathea australis* (Cyatheaceae) in wet sclerophyll forests of Australia. *Environmental and Experimental Botany* 70(1): 11-19.
954. Von Konrat, M., A. Naikatini, M. Tuiwawa, L. Söderström, A. Fife, M. Renner, P. Brownsey, L. R. Perrie, H. T. Lumbsch, J. Braggins, Séneca, A. & E. Brown. 2011. A brief history of the cryptogams of Fiji and prospects for the future. *Telopea* 13: 361-374.
955. Wacnik, A., M. Ralska-Jasiewiczowa & E. Madeyska. 2011. Late glacial and Holocene history of vegetation in Gostynin area, central Poland. *Acta Palaeobotanica* 51(2): 249-278. [*Pteridium*]
956. Wagner, R. H. & M. Paz Castro. 2011. Compositional changes in a Mid-Stephanian (Kasimovian) flora in relation to alluvial plain deposits derived from westward-receding mountains and bordered by the Paleotethys: La Magdalena Coalfield, northwestern Spain. *Palaios* 26(1-2): 33-54. [tree ferns]
957. Wan, C., P. Zhang, J. Luo & L. Kong. 2011. Homoflavonoid glucosides from *Ophioglossum pedunculatum* and their anti-HBV activity. *Journal of Natural Products* 74(4): 683-689.
958. Wang, C., S. Wang, L. Rong & X. Luo. 2011. Analyzing about characteristics of calcium content and mechanisms of high calcium adaptation of common pteridophyte in Maolan karst area of China. *Chinese Journal of Plant Ecology* 35 (10): 1061-1068.
959. Wang, D. L., Y. D. Qi, J. D. Feng & J. H. Wei. 2011. An efficient regeneration pattern via gemmae for *Huperzia serrata* (Thunb. ex Murray) Trev. in Hainan Province, China. *American Fern Journal* 101(3): 182-192.
960. Wang, F. G., H. F. Chen & F. W. Xing. 2011. *Davallia napoensis*, a new species of Davalliaceae from Guangxi, China. *Novon* 21(3): 380-384.
961. Wang, F., Y. Li, F. Ren, G. Wei & J. Liu. 2011. Pterisolic acids A-F, new ent-kaurane diterpenoids from the fern *Pteris semipinnata*. *Chemical and Pharmaceutical Bulletin* 59(4): 484-487.
962. Wang, H. H., B. J. Chen, L. M. Hsu, Y. M. Cheng, Y. J. Liou & C. Y. Wang. 2011. Allelopathic effects of bracken fern (*Pteridium aquilinum* L. Kuhn) in Taiwan. *Allelopathy Journal* 27(1): 97-110.
963. Wang, H. S., L. Sun, Y. H. Wang, Y. N. Shi, G. H. Tang, F. W. Zhao, H. M. Niu, C. L. Long & L. Li. 2011. Carboxymethyl flavonoids and a monoterpene glucoside from *Selaginella moellendorffii*. *Archives of Pharmacal Research* 34(8): 1283-1288.
964. Wang, H., M. Wong, C. Lan, Y. Qin, W. Shu, R. Qiu & Z. Ye. 2011. Organic acids in two arsenic hyperaccumulators and a non-hyperaccumulator of *Pteris* exposed to elevated arsenic concentrations. *International Journal of Environmental Analytical Chemistry* 91(3): 241-254.
965. Wang, J., X. Feng, C. W. N. Anderson, W. Zhu, R. Yin & H. Wang. 2011. Mercury distribution in the soil-plant-air system at the Wanshan mercury mining district in Guizhou, southwest China. *Environmental Toxicology and Chemistry* 30(12): 2725-2731. [*Pteris vittata*]

966. Wang, J., Y. Wang, Z. Wang, L. Liu, X. G. Zhu & X. Ma. 2011. Synchronization of cytoplasmic and transferred mitochondrial ribosomal protein gene expression in land plants is linked to telo-box motif enrichment. *BMC Evolutionary Biology* 11: 161. [*Selaginella moellendorffii*]
967. Wang, L. C., J. T. Wu, T. Q. Lee, P. F. Lee & S. H. Chen. 2011. Climate changes inferred from integrated multi-site pollen data in northern Taiwan. *Journal of Asian Earth Sciences* 40(6): 1164-1170.
968. Wang, L. F., H. B. Ji & W. M. Tian. 2011. Photosystem 2 photochemistry and pigment composition of *Dicranopteris dichotoma* Bernh. under different irradiances. *African Journal of Biotechnology* 10(62): 13453-13460.
969. Wang, L., D. Li, C. Wang, Y. Zhang & J. Xu. 2011. Recent progress in the development of natural ent-kaurane diterpenoids with anti-tumor activity. *Mini-Reviews in Medicinal Chemistry* 11(10): 910-919. [*Pteris*]
970. Wang, L., Z. Q. Wu, N. Bystrakova, S. W. Ansell, Q. P. Xiang, J. Heinrichs, H. Schneider & X. C. Zhang. 2011. Phylogeography of the alpine fern *Lepisorus clathratus* on “the roof of the world”. *PloS One* 6: e25896.
971. Wang, R. X., W. Shao, S. G. Lu, S. Y. Zhou & S. C. Liang. 2011. Cytotaxonomic study of 12 species in the Polypodiaceae from southern China. *American Fern Journal* 101(4): 307-316.
972. Wang, S. S., X. L. Dai & Q. X. Wang. 2011. Ultrastructure of sporangium in *Ceratopteris thalictroides* (L.) Brongn. during the early development stage. *Acta Botanica Boreali-Occidentalia Sinica* 31(9): 1758-1764.
973. Wang, S., Z. Xu, J. Zhang & Y. Wang. 2011. Plant components analysis of Balihe Wetland Natural Reserve. *Journal of Huazhong Normal University, Natural Sciences Edition* 45(1): 157-162.
974. Wang, X. & H. Deng. 2011. Allelopathic effects of companion species on spore germination and gametophyte development in *Cibotium barometz*. *Journal of Chinese Materia Medica* 36(8): 973-976. [Chinese, English abstract]
975. Wang, X., J. Guo, M. Q. Guo & B. D. Liu. 2011. New observation on multiformity of the antheridium in *Onoclea sensibilis*. *Acta Botanica Boreali-Occidentalia Sinica* 31(11): 2226-2230.
976. Wang, X., L. Q. Ma, B. Rathinasabapathi, Y. Cai, Y. G. Liu & G. M. Zeng. 2011. Mechanisms of efficient arsenite uptake by arsenic hyperaccumulator *Pteris vittata*. *Environmental Science and Technology* 45(22): 9719-9725.
977. Wang, X., L. Zhen, G. Zhang, M. S. Wong, L. Qin & X. Yao. 2011. Osteogenic effects of flavonoid aglycones from an osteoprotective fraction of *Drynaria fortunei*-An *in vitro* efficacy study. *Phytomedicine* 18(10): 868-872.
978. Wang, X., R. Xi, S. Liu, Z. Cheng, W. Zhou, C. Xu & Z. Zhang. 2011. The first discovery of *Selaginella pulvinata* community in Tibet. *Journal of Huazhong Normal University, Natural Sciences Edition* 45(1): 113-115.
979. Wang, Y., Q. G. Zeng, Z. B. Zhang, R. M. Yan, L. Y. Wang & D. Zhu. 2011. Isolation and characterization of endophytic huperzine A-producing fungi from *Huperzia serrata*. *Journal of Industrial Microbiology and Biotechnology* 38(9): 1267-1278.
980. Wang, Y., Y. Huang, Q. Qiu, G. Xin, Z. Yang & S. Shi. 2011. Flooding greatly affects the diversity of arbuscular mycorrhizal fungi communities in the roots of wetland plants. *PLoS One* 6(9): e24512. [*Acrostichum aureum*]
981. Wang, Z. & K. Y. Guan. 2011. High genetic diversity and low genetic differentiation in the relict tree fern *Sphaeropteris brunoniana* (Cyatheaceae) revealed by amplified fragment length polymorphism (AFLP). *Botanical Studies* 52(3): 231-238.

982. Wang, Z. J. & K. Y. Guan. 2011. Genetic structure and phylogeography of a relict tree fern, *Sphaeropteris brunoniana* (Cyatheaceae) from China and Laos inferred from cpDNA sequence variations: implications for conservation. *Journal of Systematics and Evolution* 49(1): 72-79.
983. Wassens, S. & M. Maher. 2011. River regulation influences the composition and distribution of inland frog communities. *River Research and Applications* 27(2): 238-246. [*Azolla filiculoides*, *Marsilea drummondii*]
984. Watkins Jr., J. E., W. L. Testo & R. Merkhofer. 2011. *In situ* gametophyte morphology of the tropical epiphyte *Oleandra articulata*. *American Fern Journal* 101(1): 52-56.
985. Weakley, A. S., R. J. LeBlond, B. A. Sorrie, C. T. Witsell, L. D. Estes, K. Gandhi, K. G. Mathews & A. Ebihara. 2011. New combinations, rank changes, and nomenclatural and taxonomic comments in the vascular flora of the southeastern United States. *Journal of the Botanical Research Institute of Texas* 5(2): 437-455. [*Stegnogramma*, *Thelypteris*]
986. Webb, H. K., J. Hasan, V. K. Truong, R. J. Crawford & E. P. Ivanova. 2011. Nature inspired structured surfaces for biomedical applications. *Current Medicinal Chemistry* 18(22): 3367-3375. [*Salvinia biloba*]
987. Wei, A., D. Zhou, C. Xiong, Y. Cai & J. Ruan. 2011. A novel non-aromatic B-ring flavonoid: Isolation, structure elucidation and its induction of apoptosis in human colon HT-29 tumor cell via the reactive oxygen species-mitochondrial dysfunction and MAPK activation. *Food and Chemical Toxicology* 49(9): 2445-2452. [*Macrothelypteris viridifrons*]
988. Wei, A., G. Wu, C. Xiong, D. Zhou, Y. Cai & J. Ruan. 2011. Flavonoids with special B-ring from *Macrothelypteris viridifrons* and their anti-proliferative effects on tumor cell. *Journal of Chinese Materia Medica* 36(5): 582-584. [Chinese, English abstract]
989. Wei, C., Q. Deng, F. Wu, Z. Fu & L. Xu. 2011. Arsenic, antimony, and bismuth uptake and accumulation by plants in an old antimony mine, China. *Biological Trace Element Research* 144(1-3): 1150-1158. [*Hippochaete ramosissima*]
990. Wei, H., G. Wu, Y. Lei, C. Xiong & J. Ruan. 2011. Neuroprotective constituents from the rhizomes of *Abacopteris penangiana*. *Journal of Asian Natural Products Research* 13(8): 707-713.
991. Wei, L. L., Z. C. Chen & S. Y. Dong. 2011. Diversity survey on pteridophytes in Mt. Yunkai Nature Reserve, western Guangdong, China. *Journal of Tropical and Subtropical Botany* 19: 303-312. [Chinese, English Abstract]
992. Weiss, M., Z. Sykorova, S. Garnica, K. Riess, F. Martos, C. Krause, F. Oberwinkler, R. Bauer & D. Redecker. 2011. Sebaciales everywhere: previously overlooked ubiquitous fungal endophytes. *PLoS One* 6(2): e16793.
993. Weller, S. G., R. J. Cabin, D. H. Lorence, S. Perlman, K. R. Wood, T. Flynn & A. K. Sakai. 2011. Alien plant invasions, introduced ungulates, and alternative states in a mesic forest in Hawaii. *Restoration Ecology* 19(5): 671-680. [*Diellia pallida*]
994. Weng, J. K., T. Akiyama, J. Ralph & C. Chapple. 2011. Independent recruitment of an O-Methyltransferase for syringyl lignin biosynthesis in *Selaginella moellendorffii*. *Plant Cell* 23(7): 2708-2724.
995. Werner, F. A. 2011. Reduced growth and survival of vascular epiphytes on isolated remnant trees in a recent tropical montane forest clear-cut. *Basic and Applied Ecology* 12(2): 172-181.
996. Wesenberg, J. 2011. *Dryopteris cristata* rediscovered with over 130 individuals on the western shore of Lake Ostensjovannet, Oslo. *Blyttia* 69(4): 255-265.
997. Wester, S., G. Mendieta-Leiva, L. Nauheimer, W. Wanek, H. Kreft & G. Zotz. 2011. Physiological diversity and biogeography of vascular epiphytes at Rio Changuinola, Panama. *Flora* 206(1): 66-79.
998. Wetzell, P. R., F. H. Sklar, C. A. Coronado, T. G. Troxler, S. L. Krupa, P. L. Sullivan, S. Ewe, R. M. Price, S. Newman & W. H. Orem. 2011. Biogeochemical processes on tree islands in the

- greater Everglades: initiating a new paradigm. *Critical Reviews in Environmental Science and Technology* 41(S1): 670-701. [*Acrostichum aureum*, *Blechnum serrulatum*]
999. Whittier, D. P. & J. E. Braggins. 2011. The gametophyte of *Ophioglossum pendulum* in culture. *American Fern Journal* 101(1): 6-11.
1000. Wicke, S., A. Costa, J. Munoz & D. Quandt. 2011. Restless 5S: The re-arrangement(s) and evolution of the nuclear ribosomal DNA in land plants. *Molecular Phylogenetics and Evolution* 61(2): 321-332. [water ferns]
1001. Wicke, S., G. M. Schneeweiss, C. W. dePamphilis, K. F. Mueller & D. Quandt. 2011. The evolution of the plastid chromosome in land plants: gene content, gene order, gene function. *Plant Molecular Biology* 76(3-5): 273-297.
1002. Wilhalm, T., K. Pagitz, E. Schwienbacher & W. Tratter. 2011. Vascular plants. *Gredleriana* 11: 175-184. [*Selaginella*]
1003. Williams, J. J., W. D. Gosling, S. J. Brooks, A. L. Coe & S. Xu. 2011. Vegetation, climate and fire in the eastern Andes (Bolivia) during the last 18,000 years. *Palaeogeography Palaeoclimatology Palaeoecology* 312(1-2): 115-126. [*Isoetes*]
1004. Wilson, P. D. 2011. Distance-based methods for the analysis of maps produced by species distribution models. *Methods in Ecology and Evolution* 2(6): 623-633. [*Cyathea*]
1005. Windhausen, A. & S. M. Wolniak. 2011. Aurora kinase and the formation of the blepharoplast, a centrosome-like particle that nucleates *de novo* formation of basal bodies in *Marsilea vestita*. *Molecular Biology of the Cell* 22: 891.
1006. Winkler, M., M. Koch & P. Hietz. 2011. High gene flow in epiphytic ferns despite habitat loss and fragmentation. *Conservation Genetics* 12(6): 1411-1420.
1007. Winter, S. L. S., L. S. Sylvestre & J. Prado. 2011. O gênero *Adiantum* L. (Pteridaceae) no estado do Rio de Janeiro, Brasil. *Rodriguésia* 62: 663-681. [Portuguese]
1008. Wolf, P. G., J. P. Der, A. M. Duffy, J. B. Davidson, A. L. Grusz & K. M. Pryer. 2011. The evolution of chloroplast genes and genomes in ferns. *Plant Molecular Biology* 76(3-5): 251-261.
1009. Wolniak, S. M., C. Weele, F. Deeb, T. Boothby & V. Klink. 2011. Extremes in rapid cellular morphogenesis: post-transcriptional regulation of spermatogenesis in *Marsilea vestita*. *Protoplasma* 248(3): 457-473.
1010. Worobiec, E. 2011. Middle Miocene aquatic and wetland vegetation of the paleosinkhole at Tarnow Opolski, SW Poland. *Journal of Paleolimnology* 45(3): 311-322. [water ferns]
1011. Wrage, N., J. Strodthoff, H. M. Cuchillo, J. Isselstein & M. Kayser. 2011. Phytodiversity of temperate permanent grasslands: ecosystem services for agriculture and livestock management for diversity conservation. *Biodiversity and Conservation* 20(14): 3317-3339. [*Equisetum palustre*]
1012. Wu, J., Z. Liu, X. Wang, Y. Sun, L. Zhou, Y. Lin & S. Fu. 2011. Effects of understory removal and tree girdling on soil microbial community composition and litter decomposition in two *Eucalyptus* plantations in south China. *Functional Ecology* 25(4): 921-931. [*Blechnum orientale*, *Dicranopteris dichotoma*]
1013. Wu, T. C. & W. Y. Kao. 2011. Ecophysiological traits of leaves of three *Marsilea* species distributed in different geographical regions. *Taiwania* 56(4): 279-286.
1014. Wu, W.H., Y. H. Chang, W. L. Chiou & Y. M. Huang. 2011. Ferns and lycophytes in southwestern Yangmingshan National Park. *National Park Bulletin* 21: 35-46. [Chinese]
1015. Wu, Z. L., X. N. Zhou, L. F. Zheng, X. S. Hu & C. J. Zhou. 2011. Species diversity and stability of natural secondary communities with different cutting intensities after ten years. *Journal of Forestry Research* 22(2): 205-208. [*Dicranopteris dichotoma*, *Histiopteris chinensis*, *Woodwardia japonica*]
1016. Xiang, J. Y., S. G. Wu, P. K. Loc & O. Souliya. 2011. Studies on the genus *Bolbitis* (Dryopteridaceae) from Vietnam and Laos. *American Fern Journal* 101(4): 282-294.

1017. Xiao, H. Y. & C. Q. Liu. 2011. The elemental and isotopic composition of sulfur and nitrogen in Chinese coals. *Organic Geochemistry* 42(1): 84-93.
1018. Xu, C. D., X. L. Li & J. M. Feng. 2011. Relationships between epiphyte ferns species diversity and their phorophytes in Mt. Ailao National Nature Reserve. *Chinese Journal of Ecology* 30(9): 1858-1862.
1019. Xu, H. H. & Y. Wang. 2011. A neotype for *Colpodexylon gracilentum* Dou (Lycopsida) from the Middle Devonian of North Xinjiang, China. *Journal of Systematics and Evolution* 49(4): 372-378.
1020. Xu, H. H., C. M. Berry, Y. Wang & J. E. A. Marshall. 2011. A new species of *Leclercqia* Banks, Bonamo et Grierson (Lycopsida) from the Middle Devonian of North Xinjiang, China, with a possible climbing habit. *International Journal of Plant Sciences* 172(6): 836-846.
1021. Xu, N. & T. Jia. 2011. Chemical reaction and products in processed *Cibotium barometz*. *Journal of Chinese Materia Medica* 36(15): 2066-2070. [Chinese, English abstract]
1022. Xu, X. X., Z. Qu, H. Wang, H. P. Lin, C. Wang, O. Y. Xie, J. S. Ruan & K. Hong. 2011. *Asanoa hainanensis* sp. nov., isolated from rhizosphere soil of *Acrostichum speciosum* in a mangrove, and emended description of the genus *Asanoa*. *International Journal of Systematic and Evolutionary Microbiology* 61(10): 2384-2388.
1023. Yadav, B. L. & K. L. Meena. 2011. Observations on fern genus *Ophioglossum* L. from Rajasthan, India. *Indian Fern Journal* 28(1-2): 57-75.
1024. Yagi, E., T. Akita & T. Kawahara. 2011. A novel Au SINE sequence found in a gymnosperm. *Genes and Genetic Systems* 86(1): 19-25.
1025. Yamamoto, K., K. N. Murakami & A. Ebihara. 2011. The distribution of *Dryopteris caudipinna* (Dryopteridaceae), a sexually reproducing counterpart of apogamous *D. erythrosora* in Japan. *Bunrui* 11: 73-74. [Japanese]
1026. Yamasaki, K., R. Hishiki, E. Kato & J. Kawabata. 2011. Study of kaempferol glycoside as an insulin mimic reveals glycon to be the key active structure. *ACS Medicinal Chemistry Letters* 2(1): 17-21. [*Cyathea phalerata*]
1027. Yañez, A., G. Marquez & A. Ganem. 2011. *Asplenium uniseriale* (Aspleniaceae): a new record for the Argentina flora and news about their habit. *Boletín de la Sociedad Argentina de Botánica* 46(3-4): 355-359.
1028. Yang, D. M., F. W. Xing & F. G. Wang. 2011. Lectotypification of three species in the fern genus *Pteris* (Pteridaceae) from China. *Novon* 21(4): 515-516.
1029. Yang, F. C., C. L. Zhang, G. Wu, S. Y. Liang & X. C. Zhang. 2011. Endangered pteridophytes and their distribution in Hainan Island, China. *American Fern Journal* 101(2): 105-116.
1030. Yang, H., Y. Y. Chen, Y. X. Xu & Z. Z. Li. 2011. Gene flow dynamics of *ex-situ* conservation populations in two endangered *Isoetes* species: genetic implications for reintroduction, conservation and management. *Plant Science Journal* 29(3): 319-330.
1031. Yang, J. H., T. P. Kondratyuk, K. C. Jermihov, L. E. Marler, X. Qiu, Y. Choi, H. Cao, R. Yu, M. Sturdy, R. Huang, Y. Liu †, L. Q. Wang, A. D. Mesecar, R. B. van Breemen, J. M. Pezzuto, H. H. S. Fong, Y. G. Chen & H. J. Zhang. 2011. Bioactive compounds from the fern *Lepisorus contortus*. *Journal of Natural Products* 74(2): 129-136.
1032. Yang, M. H., L. Cai, Z. G. Tai, X. Q. Yang & Z. T. Ding. 2011. Brainin A, a novel flavanol from *Brainea insignis*. *Chinese Chemical Letters* 22(4): 455-457.
1033. Yang, T., S. V. Naugolnykh & G. Sun. 2011. A new representative of *Neocalamites* Halle from the Upper Permian of northeastern China (Jiefangcun formation). *Paleontological Journal* 45(3): 335-346.
1034. Yang, Y. F., L. Wang, S. J. Yan, Z. Li, Y. Y. Wang & W. S. Zhang. 2011. Discovery Studio software in the analysis of the blood-brain barrier penetrations of active components of traditional Chinese medicines. *Chinese Pharmacological Bulletin* 27(5): 739-740. [*Huperzia serrata*]

1035. Yang, Y. R., L. Shen, J. Z. Huang, T. Xu & K. Wei. 2011. Application of the Helquist annulation in *Lycopodium* alkaloid synthesis: unified total syntheses of (-)-8-deoxyserratinine, (-)-fawcettimine, and (+)-lycoflexine. *Journal of Organic Chemistry* 76(10): 3684-3690.
1036. Yatabe, Y., K. Yamamoto, C. Tsutsumi, W. Shinohara, N. Murakami & M. Kato. 2011. Fertility and precocity of *Osmunda x intermedia* offspring in culture. *Journal of Plant Research* 124: 265-268.
1037. Ye, J. C., P. Zhang, J. Y. Sun, C. T. Guo, G. S. Chen, I. Abe & H. Noguchi. 2011. Cloning, expression and functional identification of a type III polyketide synthase gene from *Huperzia serrata*. *Acta Pharmaceutica Sinica* 46(10): 1273-1278.
1038. Ye, W. L., M. A. Khan, S. P. McGrath & F. J. Zhao. 2011. Phytoremediation of arsenic contaminated paddy soils with *Pteris vittata* markedly reduces arsenic uptake by rice. *Environmental Pollution* 159(12): 3739-3743.
1039. Yin, S. W., J. G. Zeng, X. X. Wang, Y. Zhang, S. S. Li & K. J. Mao. 2011. Non-alkaloid constituents from *Lycopodium japonicum*. *Journal of Tropical and Subtropical Botany* 19: 79-83. [Chinese]
1040. Yonekura-Sakakibara, K. & K. Hanada. 2011. An evolutionary view of functional diversity in family 1 glycosyltransferases. *Plant Journal* 66(1): 182-193. [*Selaginella moellendorffii*]
1041. Yue Ken, L. & W. Yi Hui. 2011. *In vitro* propagation of *Platyserium bifurcatum* (Cav.) C. Chr. via green globular body initiation. *Botanical Studies* 52(4): 455-463.
1042. Yumkham, S. D. & P. K. Singh. 2011. Less known ferns and fern-allies of Manipur with ethnobotanic uses. *Indian Journal of Traditional Knowledge* 10(2): 287-291.
1043. Yumkham, S. D. & P. K. Singh. 2011. *Huperzia squarrosa* (G. Forst.) Trev. (Lycopodiaceae) in Manipur: taxonomy and biological aspects. *Taiwania* 56(2): 157-164.
1044. Zakaria, Z. A., A. M. Mohamed, N. S. M. Jamil, M. S. Rofiee, M. N. Somchit, A. Zuraini, A. K. Arifah & M. R. Sulaiman. 2011. *In vitro* cytotoxic and antioxidant properties of the aqueous, chloroform and methanol extracts of *Dicranopteris linearis* leaves. *African Journal of Biotechnology* 10(2): 273-282.
1045. Zech, M., C. Bimuelller, A. Hemp, C. Samimi, C. Broesike, C. Hoerold & W. Zech. 2011. Human and climate impact on N-15 natural abundance of plants and soils in high-mountain ecosystems: a short review and two examples from the eastern Pamirs and Mt. Kilimanjaro. *Isotopes in Environmental and Health Studies* 47(3): 286-296.
1046. Zhang, D., L. Y. Tan & B. D. Liu. 2011. Development of embryo in *Matteuccia struthiopteris* (L.) Todaro. *Bulletin of Botanical Research* 31(1): 29-33.
1047. Zhang, J., Y. Song, Y. Zhu, H. Zhang & Y. Zhong. 2011. AFLP analysis of genetic diversity and population structure of *Huperzia serrata* (Thunb. ex Murray) Trev. var. *longipetiolata* (Spring) H. M. Chang. *Chinese Journal of Applied and Environmental Biology* 17(1): 18-23.
1048. Zhang, K. M., B. D. Liu, Y. M. Fang, L. Shi & S. J. Tang. 2011. Studies on the gametophytes of eight Chinese species of *Dryopteris* (Dryopteridaceae). *American Fern Journal* 101(1): 12-24.
1049. Zhang, L. B. & H. He. 2011. *Polystichum fengshanense*, sp. nov. (sect. Haplopolystichum, Dryopteridaceae) from karst caves in Guangxi, China based on morphological, palynological, and molecular evidence. *Systematic Botany* 36(4): 854-861.
1050. Zhang, L., Z. G. Wei, L. X. Qi, J. Du, K. Qi & S. P. Hu. 2011. Isolation and identification of endophytic fungi TL from *Huperzia serrata* and antibiotics sensitivity research. *Journal of Jishou University, Natural Sciences Edition* 32(6): 81-86.
1051. Zhang, Q., Z. Wang, M. Ji, Z. Fan & J. Deng. 2011. Patterns of species richness in relation to temperature, taxonomy and spatial scale in eastern China. *Acta Oecologica* 37(4): 307-313.
1052. Zhang, S., G. Zhong, B. Liu & B. Wang. 2011. Physicochemical and functional properties of fern rhizome (*Pteridium aquilinum*) starch. *Stärke* 63(8): 468.
1053. Zhang, X. C. 2011. Fifth symposium on Asian Pteridology and fern show. *Taxon* 60(1): 299.

1054. Zhang, X., L. Wang, Y. Yuan, D. Tian & S. Yang. 2011. Rapid copy number expansion and recent recruitment of domains in S-receptor kinase-like genes contribute to the origin of self-incompatibility. *FEBS Journal* 278(22): 4323-4337.
1055. Zhang, Y. X., Q. Y. Li, L. L. Yan & Y. Shi. 2011. Structural characterization and identification of biflavones in *Selaginella tamariscina* by liquid chromatography-diode-array detection/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry* 25(15): 2173-2186.
1056. Zhang, Y., S. Shi, Y. Wang & K. Huang. 2011. Target-guided isolation and purification of antioxidants from *Selaginella sinensis* by offline coupling of DPPH-HPLC and HSCCC experiments. *Journal of Chromatography B* 879(2): 191-196.
1057. Zhang, Z. B., Q. G. Zeng, R. M. Yan, Y. Wang, Z. R. Zou & D. Zhu. 2011. Endophytic fungus *Cladosporium cladosporioides* LF70 from *Huperzia serrata* produces Huperzine A. *World Journal of Microbiology and Biotechnology* 27(3): 479-486.
1058. Zhang, Z. Q., D. Y. Chen, G. Song & Y. M. Yue. 2011. Uptake of radionuclides from soil to plant and the discovery of Ra-226, Th-232 hyperaccumulator. *Chinese Journal of Environmental Science* 32(4): 1159-1163. [*Dicranopteris dichotoma*]
1059. Zhang, Z., P. Metzger & J. P. Sachs. 2011. Co-occurrence of long chain diols, keto-ols, hydroxy acids and keto acids in recent sediments of Lake El Junco, Galapagos Islands. *Organic Geochemistry* 42(7): 823-837. [*Azolla*]
1060. Zhao, J. H., Q. W. Sun & L. T. Pan. 2011. *Blechnidium* Moore-a new record genus of pteridophytes in Guizhou Province. *Acta Botanica Boreali-Occidentalia Sinica* 31(11): 2335-2337.
1061. Zhao, K., J. Song, G. Feng, M. Zhao & J. Liu. 2011. Species, types, distribution, and economic potential of halophytes in China. *Plant and Soil* 342(1-2): 495-509.
1062. Zhao, X., Z. Wu, Y. Zhang, Y. Yan, Q. He, P. Cao & W. Lei. 2011. Anti-osteoporosis activity of *Cibotium barometz* extract on ovariectomy-induced bone loss in rats. *Journal of Ethnopharmacology* 137(3): 1083-1088.
1063. Zheng, X. K., Y. J. Li, L. Zhang, W. S. Feng & X. Zhang. 2011. Antihyperglycemic activity of *Selaginella tamariscina* (Beauv.) Spring. *Journal of Ethnopharmacology* 133(2): 531-537.
1064. Zheng, X., L. Zhang, W. Wang, Y. Wu, Q. Zhang & W. Feng. 2011. Anti-diabetic activity and potential mechanism of total flavonoids of *Selaginella tamariscina* (Beauv.) Spring in rats induced by high fat diet and low dose STZ. *Journal of Ethnopharmacology* 137(1): 662-668.
1065. Zhivotovsky, O. P., Y. A. Kuzovkina, C. P. Schulthess, T. Morris & D. Pettinelli. 2011. Lead uptake and translocation by willows in pot and field experiments. *International Journal of Phytoremediation* 13(8): 731-749. [*Athyrium filix-femina*, *Osmunda cinnamomea*, *Polystichum acrostichoides*]
1066. Zhou, Y., B. Wang, L. Gao & T. Wang. 2011. Adaptive evolution and coevolution of the rbcL gene in xeric Pteridaceae ferns. *Plant Science Journal* 29(4): 409-416.
1067. Zhu, X., H. Ma & Z. Chen. 2011. Phylogenetics and evolution of Su(var)3-9 SET genes in land plants: rapid diversification in structure and function. *BMC Evolutionary Biology* 11: 63. [*Selaginella moellendorffii*]
1068. Zhuang, C. Z., F. Du, N. Liu, H. Zhang, Y. Chen & X. L. Du. 2011. Vegetative characteristics in the dry valley of the middle reaches of Nujiang River in Tibet, China. *Plant Diversity and Resources* 33(4): 433-442. [*Sinopteris albofusca*]
1069. Zmihorski, M. 2011. Does the decline of red wood ants after clear-cutting favour epigeic arthropods? *European Journal of Entomology* 108(3): 425-430. [*Dryopteris carthusiana*]
1070. Zmihorski, M. 2011. Forest inventory data reveal stand history from 115 years ago. *Annales Botanici Fennici* 48(2): 120-128. [*Pteridium aquilinum*]

1071. Zou, T., T. Li, X. Zhang, H. Yu & H. Luo. 2011. Lead accumulation and tolerance characteristics of *Athyrium wardii* (Hook.) as a potential phytostabilizer. *Journal of Hazardous Materials* 186(1): 683-689.

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Hit Kishore Goswami	Population cytogenetics of <i>Isoetes</i> and <i>Ophioglossum</i> , pteridophytes as medicinal plants
Joan Eiger Gottlieb	Fern ecology, evolution and morphogenesis
Gary K. Greer	Pteridophyte ecology and morphology, phenotypic plasticity, invasive species

Catharine W. Guiles	Horticulture of temperate-zone ferns, especially those of New England; history of pteridology
Irina I. Gureyeva	Conservation, ecology, biomorphology, population biology, taxonomy of ferns
Christopher H. Haufler	Patterns and processes of fern evolution; application of chromosomal, isozymic, and DNA data bases in characterizing fern species, understanding speciation mechanisms and phylogenetic relationships; the significance of polyploidy in pteridophyte evolution
Andreas Hemp	Vegetation ecology
Leslie G. Hickok	Genetics, science pedagogy
Elisabeth A. Hooper	Fern systematics; <i>Aleuritopteris</i>
Karsten Horn	Biosystematics, ecology, population biology and distribution of <i>Diphasiastrum</i> and <i>Botrychium</i> species in Europe; bibliography of Macaronesian pteridophytes; conservation strategies for endangered German pteridophytes; monograph of the genus <i>Diphasiastrum</i>
Peter H. Hovenkamp	Polypodiaceae, Nephrolepidaceae, Oleandraceae, Flora Malesiana, Flora of China
Ana M. Ibars	Conservation, ferns spore bank, germination
Ryoko Imaichi	Shoot apex structure; evolutionary morphology; origin of leaves
Filippo Imperato	Chemistry of flavonoids and other phenolics of ferns
Kunio Iwatsuki	Flora of East and Southeast Asia; Hymenophyllaceae; Conservation
A. Clive Jermy	Conservation action programs for Pteridophyta UK, European ferns, <i>Isoetes</i> in Europe
Mirkka Jones	Determinants of plant community composition and diversity, ecology of Neotropical ferns
S. L. Jury	Flora of the Mediterranean, especially Spain and Morocco; Pteridophyta of Morocco
Masahiro Kato	Tropical fern flora; morphological evolution of vascular plants; speciation and adaptation of rheophytes; evolution of apogamous ferns
Michael Kessler	Biodiversity and biogeography of Bolivian montane forests, including pteridophytes; flora of Bolivian pteridophytes; flora and conservation of Indonesia
S. P. Khullar	Fern floristics, taxonomy, cytology and morphology

Yves Krippel	Distribution of pteridophytes in Luxembourg
Rakesh Kumar	<i>Azolla/Anabaena</i> physiology
Siro Kurita	Speciation, karyotype evolution, systematics
Marco Landi	Population ecology
Marcus Lehnert	Taxonomy, phylogeny, ecology and biogeography of pteridophytes, special expertise in tree ferns
Iliia Leitch	Evolution of genome size and karyotypic diversity in plants
David B. Lellinger	Ferns and fern-allies of the USA
Blanca Leon	Taxonomy of neotropical Polypodiaceae, Andes and Peruvian ferns
Bai-Ling Lin	Development and hormone signaling
Stuart Lindsay	Pteridophytes of Thailand, Laos and Cambodia; Vittariaceae of Southeast Asia; gametophyte biology/ecology; multi-access keys
David H. Lorence	Pteridophytes of Polynesia, Micronesia, Mascarenes
Kay Lynch	Propagation and conservation of Hawaiian native ferns
P. V. Madhusoodanan	Pteridophytes and bryophytes of south India; <i>Azolla</i> ssp. and Cyanobacteria as biofertilizers
Fernando B. Matos	Taxonomy, biogeography, phylogeny and evolution of <i>Elaphoglossum</i>
Sadamu Matsumoto	Cytotaxonomic study of ferns, especially <i>Cyrtomium</i> , <i>Asplenium</i> and <i>Pteris</i> ; pteridophyte flora of southern Pacific islands, Bhutan, Taiwan and Mt. Kinabalu (Borneo)
J. Mitchell McGrath	Plant breeding, molecular cytogenetics, gene duplication
H. S. McHaffie	Pteridophytes
Klaus Mehltreter	Fern ecology, phenology, herbivory, interactions with insects, invasive species
Aniceto Mendoza Ruiz	Pteridophytes of Mexico; taxonomy, floristics, cultivation and propagation of ferns
John T. Mickel	Pteridoflora of Mexico; monographic studies of <i>Anemia</i> and <i>Elaphoglossum</i>
Vlastimil Mikolas	<i>Polypodium</i> , <i>Asplenium trichomanes</i> agg., <i>Dryopteris</i> , <i>Equisetum</i> and ferns of Oceania

Futoshi Miyamoto	Sino-Japan and Himalayan areas
James D. Montgomery	<i>Dryopteris</i> in North America and Mexico; ferns of Pennsylvania and New Jersey; ecology of <i>Botrychium</i>
Robbin C. Moran	Taxonomy, biogeography, phylogeny and evolution of ferns and lycophytes
Renier Morejon Hernandez	Taxonomy and conservation of Cuban ferns
Radhanath Mukhopadhyay	<i>Selaginella</i> and ferns
Claudine C. Mynssen	<i>Diplazium</i> , Brazilian Flora
Narumi Nakato	Cytotaxonomy, cytogeography, apogamy
Maite Serguero Nino	Selaginellaceae, Lycopodiaceae, Polypodiaceae (incl. Grammitidaceae), fern culture, ecology
Benjamin Oellgaard	Systematics and biology of the Lycopodiaceae with special reference to neotropical Lycopodiaceae; pteridophytes of the northern Andes, especially Ecuador, biology, taxonomy and diversity; quantitative inventories of pteridophytes in sample plots in Ecuador
Sue Olsen	Testing ferns for hardiness and ornamental value and introducing ferns to the public
Leticia Pacheco	Systematics of <i>Diplazium</i>
Christopher N. Page	Biology and ecology of Pteridophyta, biogeography, distribution, insular floras, paleobotany, <i>Equisetum</i> , patterns, principles, processes and dynamics in pteridophyte ecosystems and their evolution
Santiago Pajaron	Reproductive biology, population genetics, systematics and evolution
Monica Palacios-Rios	Taxonomy, systematics, floristics, biogeography, ecology, ethnobotany, databases, propagation, and conservation of Mexican and neotropical Pteridophytes
Daniel D. Palmer	Hawaiian ferns
Ramakant Pandey	Phytochemistry of ferns with medicinal properties
Barbara Parris	Monographic studies of Grammitidaceae; systematics, ecology and phytogeography of Old World pteridophytes particularly in tropical and south temperate regions
Alison M. Paul	Pteridophyte curation; Macaronesian and European pteridophytes
James H. Peck	Pteridophyte flora of Arkansas

A. L. Pereira	Plant-cyanobacteria symbioses, phylogeny, cyanotoxins, proteomic, phytoremediation, ecotoxicology of plants by cyanotoxins
Leon Perrie	New Zealand ferns
Krzysztof Piatek	Fern biogeography
Jefferson Prado	Phylogeny, nomenclature, taxonomy, and geographical distribution of Pteridaceae; pteridoflora in Brazil
Kathleen M. Pryer	Phylogenetics of ferns and basal tracheophytes using morphological and molecular data; systematics of basal fern families, especially Marsileaceae, Hymenophyllaceae, tree ferns, pteridoid ferns, ontogeny and phylogeny; morphometrics
N. Punetha	Morphology, taxonomy and biodiversity of Central Himalayan Ferns and Lycophytes
Anshita Raj	Phytoremediation, arsenic, <i>Pteris vittata</i> gametophytes
K. P. Rajesh	Ecology, taxonomy and conservation of bryophytes and pteridophytes of Western Ghats
R. H. G. Ranil	Tree ferns
Tom A. Ranker	Systematics, ecology and evolution of tropical ferns
Karen Renzaglia	Morphology, development, reproduction, ultrastructure
Roderick Robinson	Invasive species: <i>Pteridium</i> , <i>Lygodium</i> , <i>Azolla</i> , etc.
Gar W. Rothwell	Phylogeny of land plants
J. P. Roux	<i>Elaphoglossum</i> , <i>Dryopteris</i> , <i>Polystichum</i> , African and Madagascar pteridophytes
Kai Runk	Comparative biology and ecology of Estonian <i>Dryopteris</i> ; cultivation of hardy ferns in Estonia, especially <i>Polystichum</i> and <i>Phyllitis scolopendrium</i> and their cultivars; hardy east Asian fern species
Arthur Edward Salgado	Taxonomy of Southeast Asian ferns; the genus <i>Asplenium</i> in the Philippines
Annette Schoelch	Construction morphology; development of the sporophyll, sporangia and sori in ferns; evolution and phylogeny of ferns
Eric Schuettpelz	Evolution, diversification, and systematics of leptosporangiate ferns
David Schwartz	Cheilanthoid ferns
Kakali Sen	Cheilanthoid ferns

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- B. D. Sharma Morphology, anatomy, phytochemistry and experimental studies on pteridophytes; palaeobotany of Mesozoic and Tertiary plants
- Om P. Sharma Agronomy, carcinogenic ferns
- Joanne M. Sharpe Tropical and temperate fern life histories; long-term studies of demography of tropical pteridophytes; ecology of rheophytes and New England ferns
- Shane W. Shaw Systematics and evolution of Gleicheniaceae, insect-fern interactions and *Isoetes* anatomy
- Judith E. Skog Fern evolution and phylogeny, especially basal ferns--Osmundaceae, Schizaeaceae, Matoniaceae and (with J. Mickel and R. Moran) relationships within the genus *Elaphoglossum*
- Tynisha Smalls Molecular biology of ferns
- Alan R. Smith Phylogeny of pteridophytes; phylogeny of Polypodiaceae/Grammitidaceae; floristics of Mexican, Venezuelan and Bolivian ferns and allies; phytogeography of ferns
- Susan V. Sprunt Polypodium, *Pleopeltis*
- V. K. Sreenivas Molecular phylogeny, taxonomy, *Pteris*
- G. K. Srivastava *Isoetes*
- Ruth A. Stockey Paleobotany, plant phylogeny
- Michizo Sugai Photocontrol of spore germination, sex organ differentiation
- John A. Thomson Taxonomy, evolution and secondary metabolites of *Pteridium*; bracken fern/insect interactions
- J.H.A. van Konijnenburg-van Cittert Evolution of fossil fern families, especially Dipteridaceae
- Alejandra Vasco Neotropical pteridophyte taxonomy, *Elaphoglossum*
- Olena Volodymyrivna Vasheka Fern introduction, cultivation of temperate-zone ferns in Ukraine, pteridophyte conservation
- Satish Chander Verma Reproductive biology, cytogenetics, genetics and cytotaxonomy of homosporous ferns
- David H. Wagner Ferns of the Pacific Northwest; *Polystichum*, *Botrychium*
- Florence S. Wagner Cytology and hybridization in pteridophytes; monograph of *Botrychium*; Hawaiian pteridophyte flora; cytology and paraphyses of Hawaiian pteridophytes; bibliography of Hawaiian pteridophytes

Zhong-Ren Wang	Systematics and biosystematics of Athyriaceae, <i>Asplenium</i> and <i>Pteris</i> ; genetic diversity in conservation biology; allozyme analysis
James E. Watkins, Jr.	Fern ecology, ecophysiology, reproductive/gametophyte biology
Shao Wen	Fern embryology, and pteridophyte taxonomy, Polypodiaceae, <i>Phymatopteris</i>
Richard A. White	Vascular plant anatomy and morphology; systematics and anatomy of the tree ferns (Dicksoniaceae and Cyatheaceae) and allies
Dean P. Whittier	Morphology and development of fern gametophytes; development of gametophytes of the Ophioglossaceae, Psilotaceae, and Lycopodiaceae
Carl-Johan Widén	Phloroglucinol derivatives in ferns
Kenneth A. Wilson	Hawaii alien ferns; pteridophyte sporangial morphology
Michael D. Windham	Cytology and phylogeny of ferns; Cheilantheid ferns
Paulo G. Windisch	Neotropical ferns
Paul G. Wolf	Molecular systematics, population genetics, fern phylogeny
George Yatskievych	Systematics of cheilantheid ferns; floristics of U.S. (especially Missouri) and Mexico; conservation
Reiko Yoroï	Gametophytes of Hymenophyllaceae, Vittariaceae and <i>Asplenium unilaterale</i>
Xian-Chun Zhang	Ferns of the Himalaya region and Southeast Asia
Aurora Zlotnik	Fern anatomy, plant stomata

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