TAYLOR'S UNIVERSITY

Wisdom • Integrity • Excellence

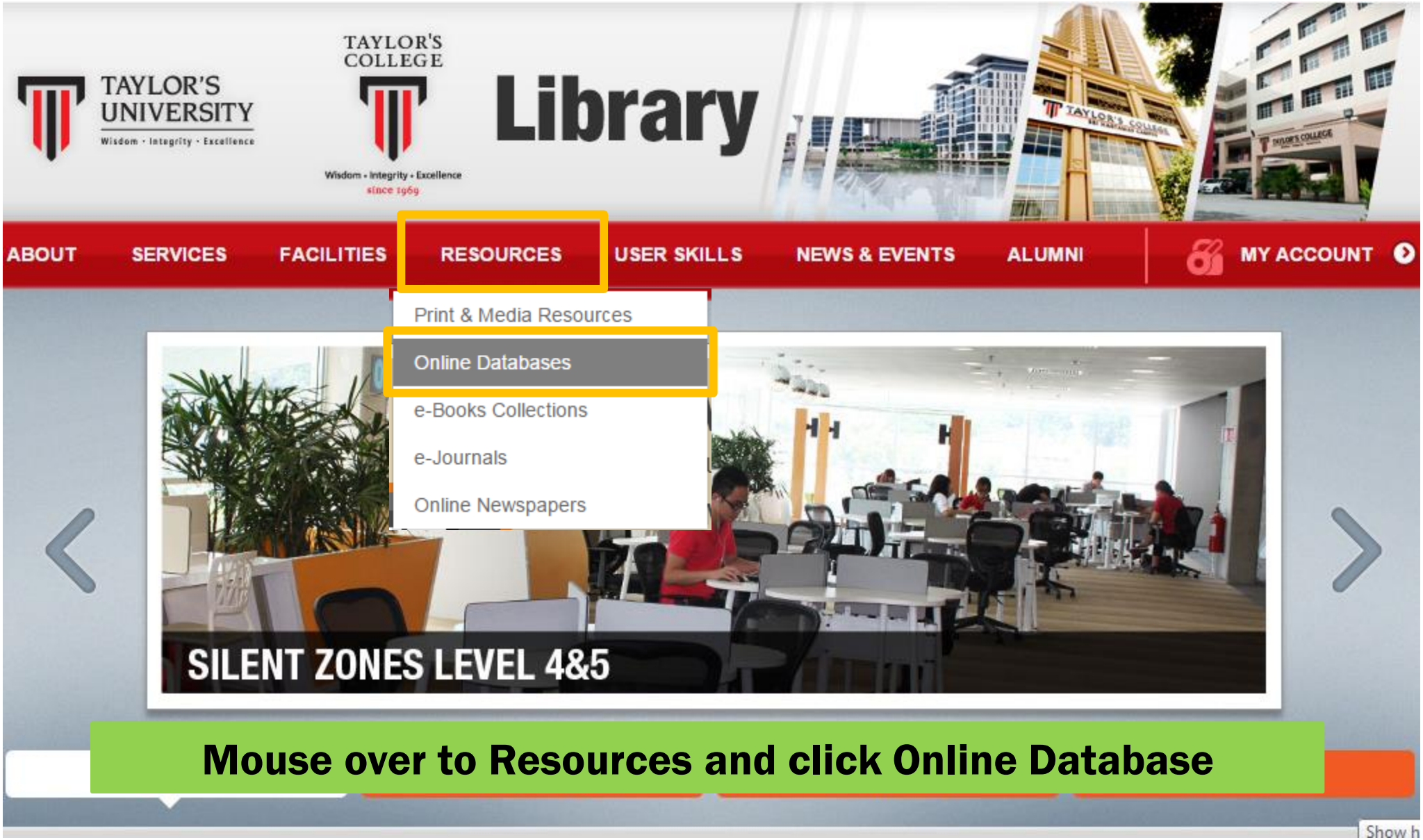
IT'S IN YOU TO **OWN THE FUTURE**

Science Direct Freedom Collection Tutorial

Science Direct is a leading full-text scientific database offering journal articles and book chapters from nearly 2,500 journals and more than 30,000 books just for you!

ScienceDirect

Step 1 : Visit Library Websites (http://taylorslibrary.taylors.edu.my/)



Step 2 : Choose Science Direct Freedom Collection

Resources - Online Databases

Library databases provide access to resources across a wide spectrum of topics and subject areas. Accessing from the library website will ensure that you have full access to the subscribed databases.

These databases provide access to published information sources. Examples: academic journal articles, conference proceedings, government publications, reports, scholarly magazines, newspapers, encyclopedias, journals and other resources.

ABC | DEF | GHI | JKL | MNO | PQR | STU

	Online Databases	Descriptions
1.	SAGE Premier upgrade from Communication Studies: A SAGE Full-Text Collection	This database includes the full text of 19 peer-reviewed journals published by SAGE and participating societies, encompassing over 12,800 articles and up to 53 years of backfiles.
2.	SAGE Research Methods Trial Period: 21st May- 31st July 2015	SAGE Research Methods has links to over 175, 000 pages of SAGE's renowned book, journal and reference content with a cutting edge advanced search and discovery tools. This is a great tool to help researchers in designing research projects, understanding particular methods or identifying a new method, conducting their research, and writing up their findings. SAGE Research Methods focuses on methodology rather than disciplines; it can be used across social sciences, health sciences and many others.
3	ScienceDirect Freedom Collection	ScienceDirect Freedom Collection is a leading full-text scientific database offering journal articles and book chapters from more than 2,500 peer-reviewed journals and more than 11,000 books.

Subject Guides
Browse by Topic

Request a Purchase

Tutorials & Guides

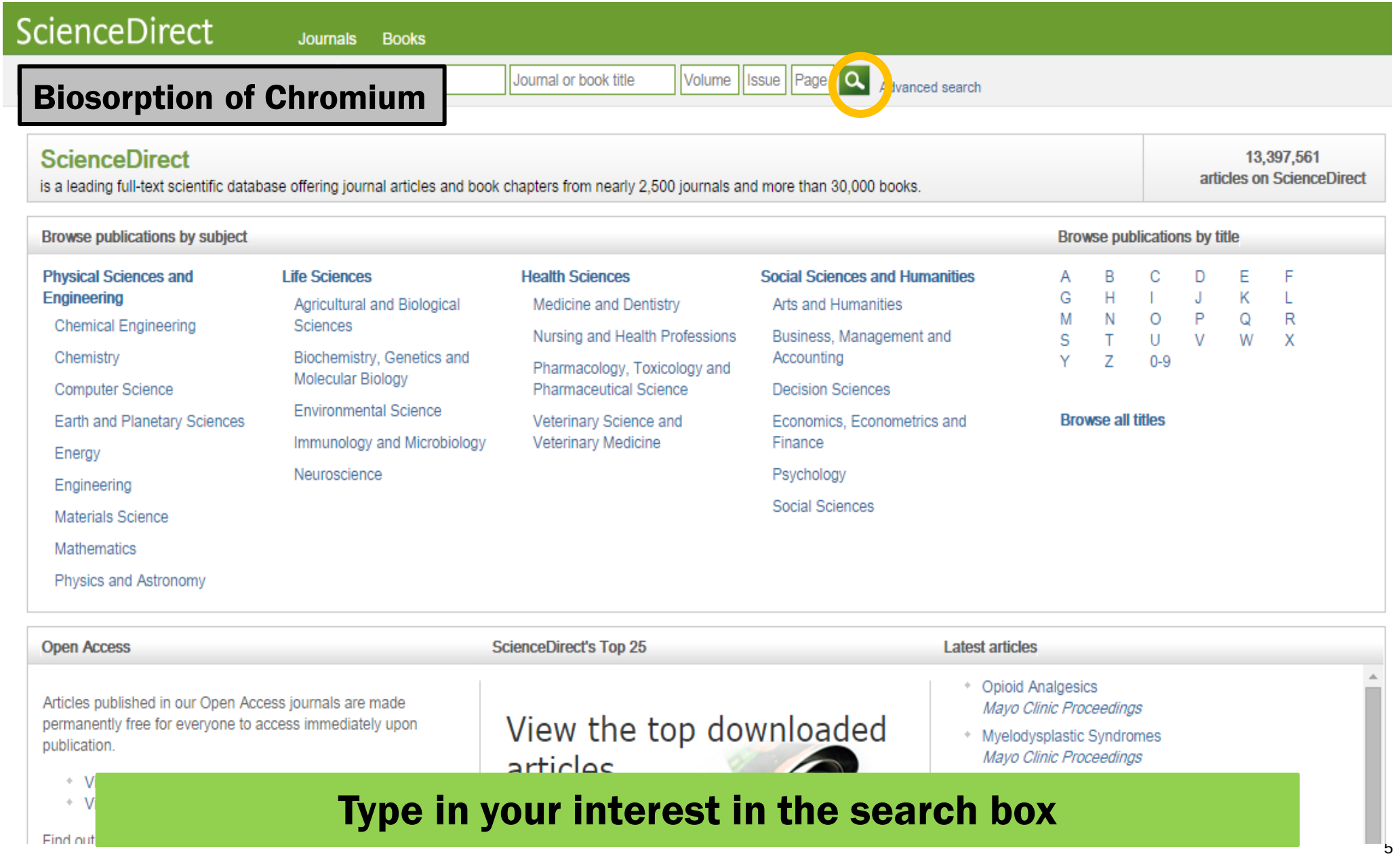
Contact Liaison
Librarian

Frequently
Asked Questions

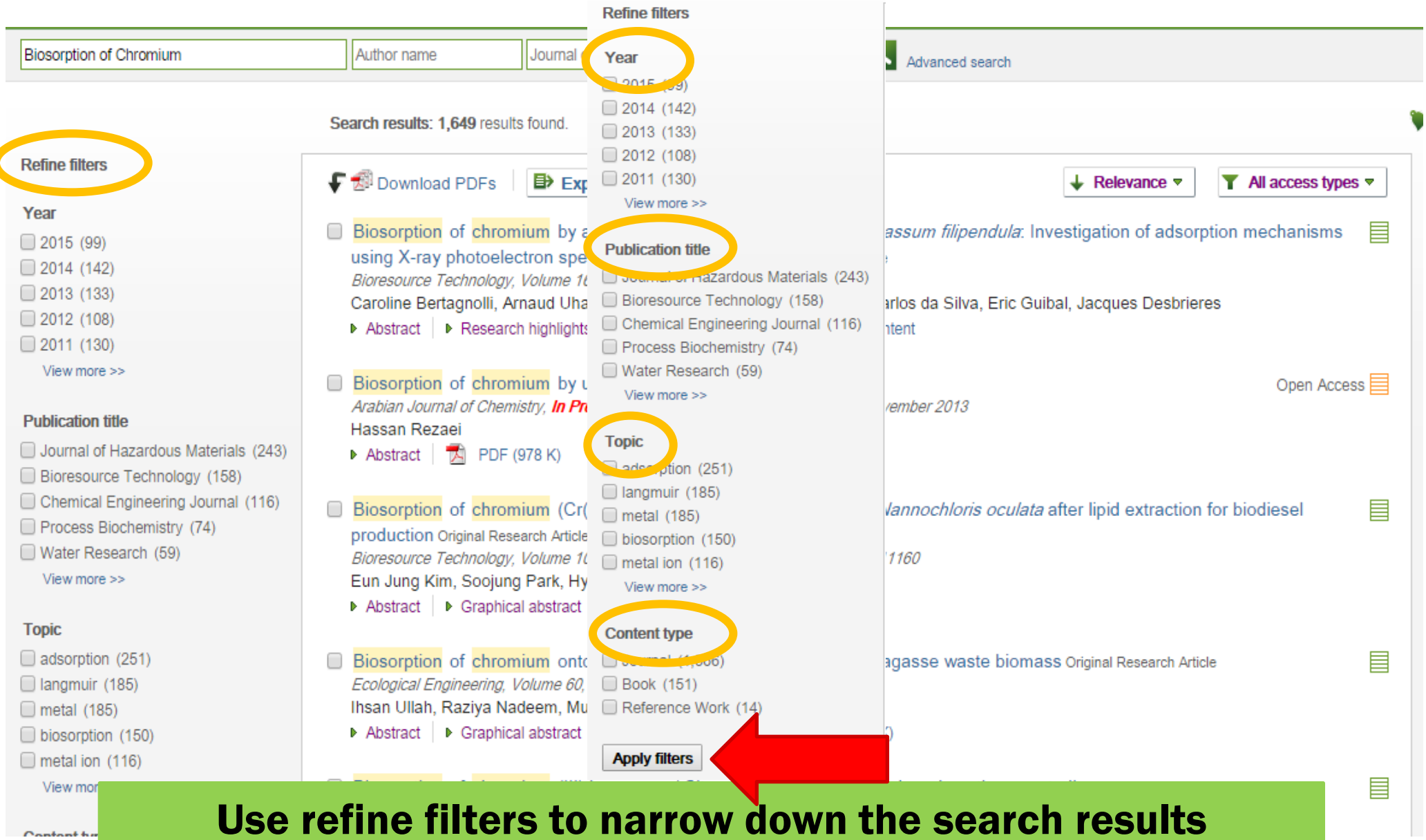
Suggestions
& Feedback

Click on the tab "STU" and choose Science Direct Freedom Collection

Step 3 : Basic Search

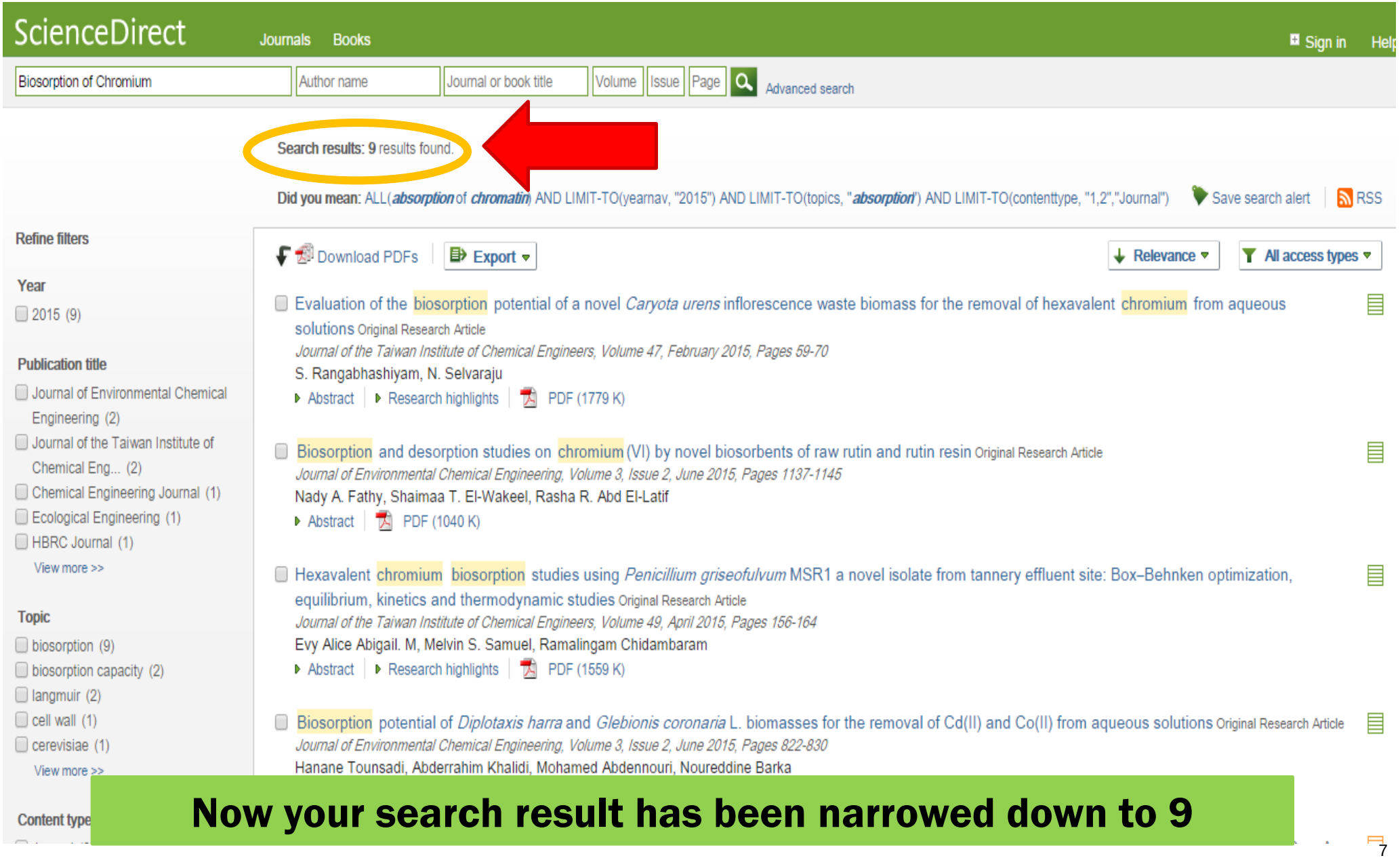


Step 4 : Refine Filters



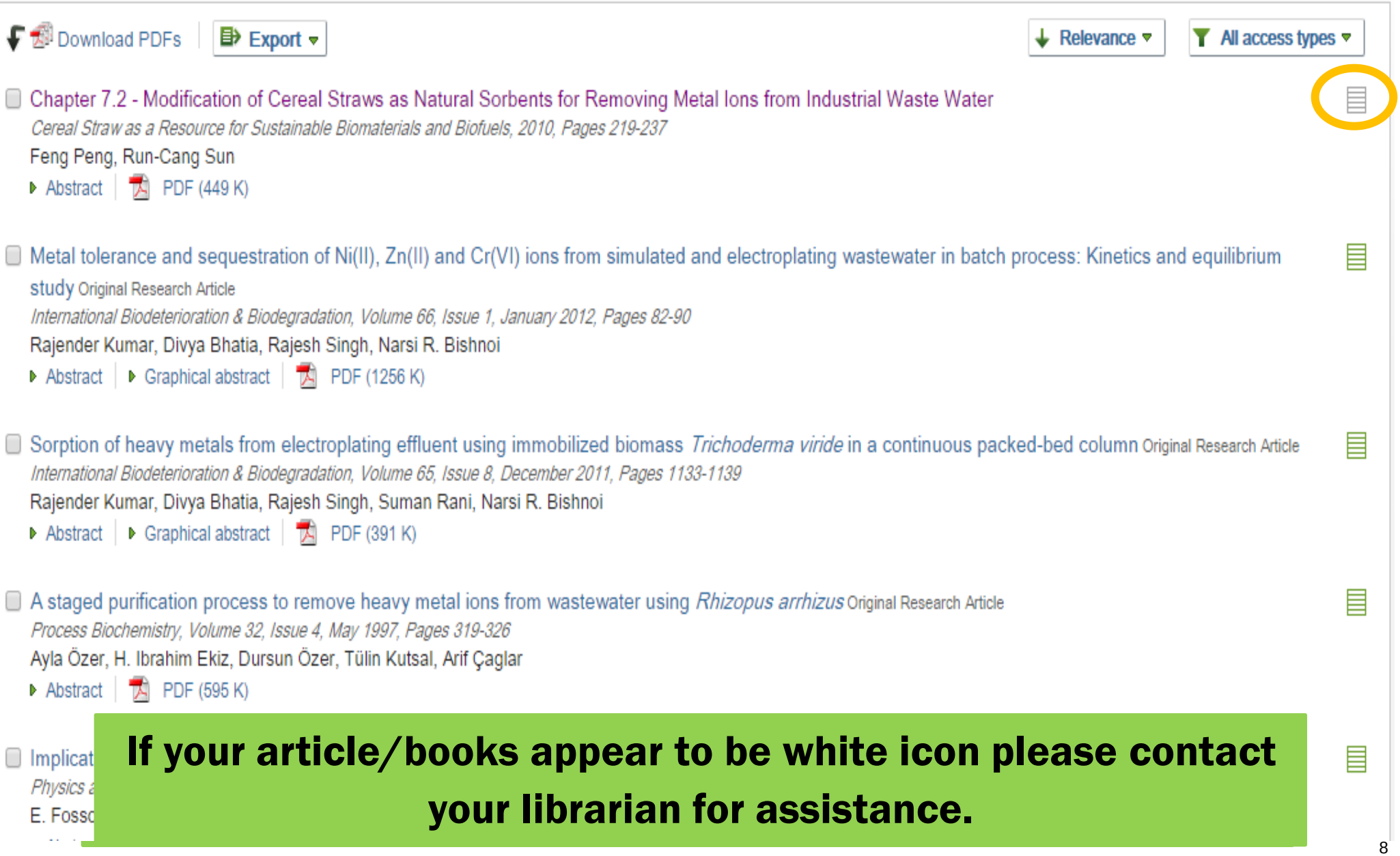
Use refine filters to narrow down the search results

Step 4 : Refine Filters



Now your search result has been narrowed down to 9

Step 5 : Full text and abstract



Step 6 : Original Research Article

Biosorption of nickel onto treated alga (*Oedogonium hatei*): Application of isotherm and kinetic models Original Research Article
Journal of Colloid and Interface Science, Volume 342, Issue 2, 15 February 2010, Pages 533-539
Vinod K. Gupta, Arshi Rastogi, Arunima Nayak
Abstract | Graphical abstract | PDF (309 K)

Biosorption of Cd(II) and Cr(III) from aqueous solution by moss (*Hylocomium splendens*) biomass: Equilibrium, kinetic and thermodynamic studies Original Research Article
Chemical Engineering Journal, Volume 144, Issue 1, 1 October 2008, Pages 1-9
Ahmet Sari, Durali Mendil, Mustafa Tuzen, Mustafa Soylak
Abstract | PDF (355 K)

Response surface methodology approach for optimization of biosorption process for removal of Cr (VI), Ni (II) and Zn (II) ions by immobilized bacterial biomass sp. *Bacillus brevis* Original Research Article
Chemical Engineering Journal, Volume 146, Issue 3, 15 February 2009, Pages 401-407
Rajender Kumar, Rajesh Singh, Naresh Kumar, Kiran Bishnoi, Narsi R. Bishnoi
Abstract | PDF (745 K)

Effect of Cu(II), Cd(II) and Zn(II) on Pb(II) biosorption by algae *Gelidium*-derived materials Original Research Article
Journal of Hazardous Materials, Volume 154, Issues 1–3, 15 June 2008, Pages 711-720
Vítor J.P. Vilar, Cidália M.S. Botelho, Rui A.R. Boaventura
Abstract | PDF (2089 K)

Studies on the applicability of alginate-entrapped *Chryseomonas luteola* TEM 05 for heavy metal biosorption
Journal of Hazardous Materials, Volume 146, Issues 1–2, 19 July 2007, Pages 417-420
Seçil Önal, Şenay Hamarat Baysal, Guven Ozdemir
Abstract | PDF (315 K)

Biosorption of precious metals Review Article
Biotech
C. Mac
Abstr

A com

Original Research Article is considered a primary source. The report of a study written by researchers who actually did the study!

Step 7 : Read abstract from search result

Removal of toxic heavy metals from synthetic wastewater using a novel biocarbon technology Original Research Article
Journal of Environmental Chemical Engineering, Volume 1, Issue 4, December 2013, Pages 884-890
Malairajan Singanan, Edward Peters
Abstract | PDF (708 K)

Removal of Ni(II) and Cu(II) ions using native and acid treated Ni-hyperaccumulator plant *Alyssum discolor* from Turkish serpentine soil Original Research Article
Chemosphere, Volume 89, Issue 3, September 2012, Pages 302-309
Gülay Bayramoğlu, M. Yakup Arica, Nezaket Adiguzel
Close abstract | PDF (410 K) | Supplementary content

Citing articles (8)

Abstract

Alyssum discolor biomass was collected from serpentine soil and was used for removal of metal ions. The plant species grown on serpentine soils are known to be rich with metals ions and thus have more capability for accumulating heavy metals. Native and acid-treated biomass of *A. discolor* (*A. discolor*) were utilized for the removal of Ni(II) and Cu(II) ions from aqueous solutions. The effects of contact time, initial concentration, and pH on the biosorption of Ni(II) and Cu(II) ions were investigated. Biosorption equilibrium was established in about 60 min. The surface properties of the biomass preparations were varied with pH, and the maximum amounts of Ni(II) and Cu(II) ions on both *A. discolor* biomass preparations were adsorbed at pH 5.0. The maximum biosorption capacities of the native, and acid-treated biomass preparations for Ni(II) were 13.1 and 34.7 mg g^{-1} and for Cu(II) 6.15 and 17.8 mg g^{-1} dry biomass, respectively. The biosorption of Ni(II) and Cu(II) ions from single and binary component systems can be successfully described by Langmuir and Freundlich isotherms. When the heavy metal ions were in competition, the amounts of biosorbed metal ions on the acid treated plant biomass were found to be 0.542 mmol g^{-1} for Ni(II) and 0.162 mmol g^{-1} for Cu(II), the *A. discolor* biomass was significantly selective for Ni(II) ions. The information gained from these studies was expected to indicate whether the native, and acid-treated forms can have the potential to be used for the removal and recovery of Ni(II) ions from wastewaters.

Application of ligno-cellulosic waste material for heavy metal ions removal from aqueous solution Original Research Article
Journal of Environmental Chemical Engineering, Volume 1, Issue 4, December 2013, Pages 1020-1027
Garima Mahajan, Dhiraj Sud
Abstract | PDF (770 K)

Adsorption of chromate and cupric ions onto chitosan-coated cotton gauze Original Research Article
Carbohydrate Polymers, Volume 110, 22 September 2014, Pages 367-373
Franco Ferrero, Cinzia Tonetti, Monica Periolatto
Abstract | Research highlights | PDF (1303 K)

You can read abstract before downloading the file

Step 8 : Download PDF file of articles/books

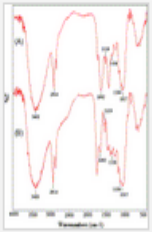
ScienceDirect Journals Books Sign in Hel

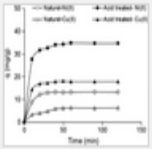
Download PDF Export Search ScienceDirect Advanced search

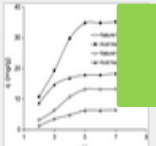
Article outline Show full outline

- Abstract
- Keywords
- 1. Introduction
- 2. Materials and methods
- 3. Results and discussion
- 4. Conclusion
- Appendix A. Supplementary material
- References

Figures and tables







ELSEVIER

Chemosphere

Volume 89, Issue 3, September 2012, Pages 302–309

Removal of Ni(II) and Cu(II) ions using native and acid treated Ni-hyperaccumulator plant *Alyssum discolor* from Turkish serpentine soil

Gulay Bayramoglu[a], M. Yakup Arica[a], Nezaket Adiguzel[b]

Show more

doi:10.1016/j.chemosphere.2012.04.042

Get rights and content

Abstract

Alyssum discolor biomass was collected from serpentine soil and was used for removal of metal ions. The plant species grown on serpentine soils are known to be rich with

Recommended articles

Investigation of trace metal binding properties of lig...
2012, Chemosphere more

Removal of Ni (II) ions from aqueous solutions by b...
2012, Journal of Environmental Management more

Effectiveness of urease inhibition on the abatement...
2012, Chemosphere more

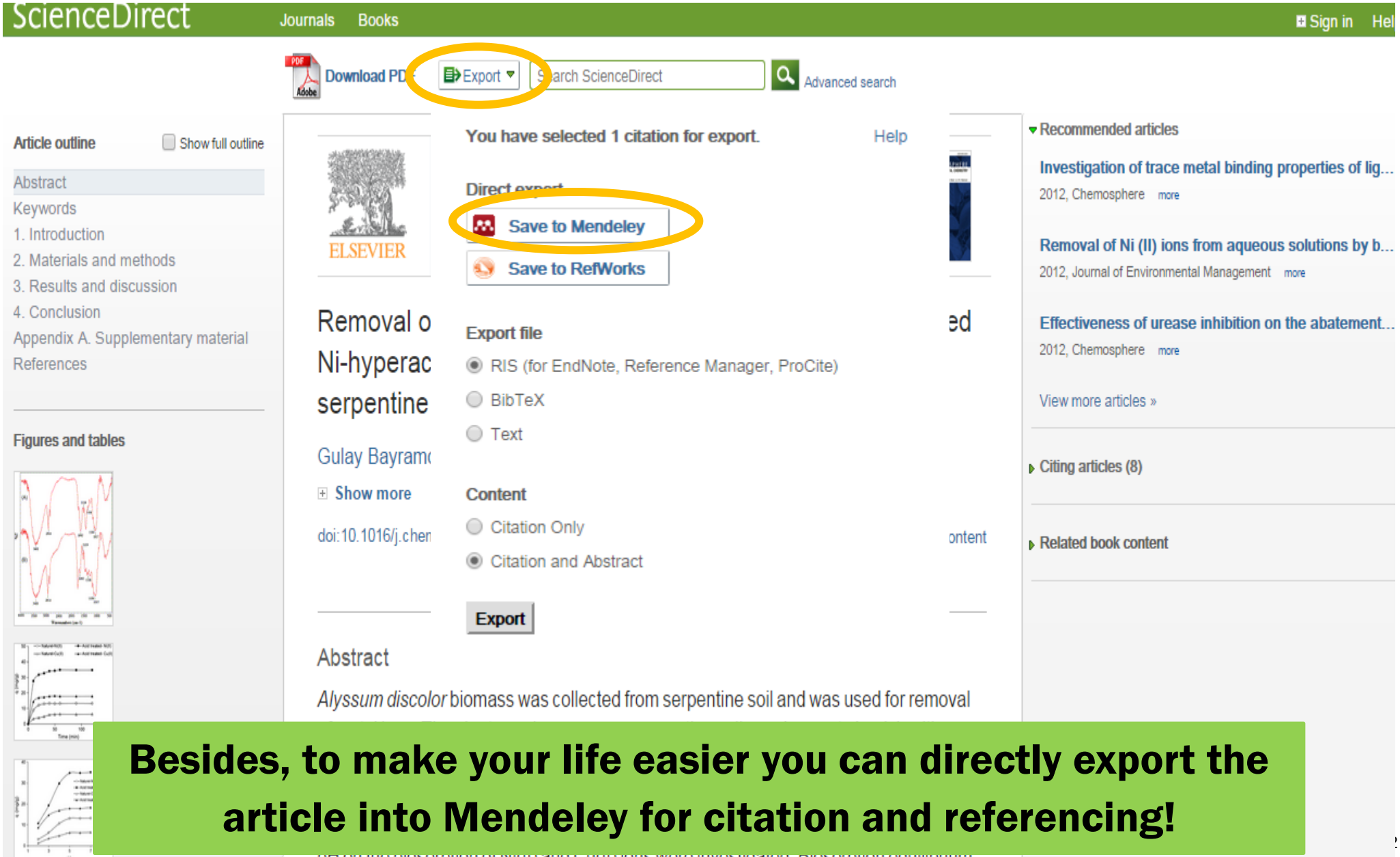
View more articles »

Citing articles (8)

Related book content

Click download PDF

Step 9 : Citation



Besides, to make your life easier you can directly export the article into Mendeley for citation and referencing!

Thank You

The End