1. CORIARIA Linnaeus, Sp. Pl. 2: 1037. 1753.

马桑属 ma sang shu

Morphological characters and geographical distribution are the same as those of the family.

- 1a. Subshrubby herbs; inflorescence terminal
 3. C. terminalis

 1b. Shrubs; inflorescence axillary.
 2a. Leaf blade elliptic or broadly elliptic, apex acute; male flower with sterile pistils
 1. C. nepalensis

 2b. Leaf blade ovate-lanceolate, apex acuminate; male flower without sterile pistils
 2. C. intermedia
- 1. Coriaria nepalensis Wallich, Pl. Asiat. Rar. 3: 67. 1832.

马桑 ma sang

Coriaria kweichowensis Hu; C. sinica Maximowicz; Morus calva H. Léveillé.

Shrubs decumbent, 1.5-2.5 m tall, with horizontally spreading branches; branchlets tetragonous or narrowly 4winged; young branches purplish red, puberulent or glabrescent; old branches purplish brown, with clearly prominent lenticels; bud scales purplish red, ovate or ovate-triangular, 1-2 mm, membranous, glabrous. Leaves opposite; petiole purple, 2-3 mm, puberulent, inflated into pad at base; leaf blade elliptic or broadly elliptic, 2.5–8 × 1.5–4 cm, papery to thinly leathery, both surfaces glabrous or puberulent on midrib and lateral veins, 3-veined to apex, veins raised abaxially, slightly impressed adaxially, base rounded, margin entire, apex acute. Inflorescences axillary. Male inflorescence 1.5-2.5 cm, densely multiflorous, flowers opening before leaves, rachis glandular puberulent; bracts and bracteoles ovate-orbicular, ca. 2.5 × 2 mm, membranous, translucent, concave, margins fringed denticulate upward; pedicel ca. 1 mm, glabrous; sepals ovate, 1.5-2 × 1-1.5 mm, margins translucent, fringed denticulate; petals ovate, very small, ca. 0.3 mm; filaments linear, ca. 1 mm, elongating in anthesis, 3-3.5 mm, anthers oblong, ca. 2 mm; sterile pistils small. Female inflorescence with flowers opening at same time that leaves appear, 4-6 cm, rachis glandular puberulent; bracts purplish, ca. 4 mm; pedicel 1.5-2.5 mm; sepals same as in male flower; petals small, fleshy; stamens short, filaments ca. 0.5 mm; carpels 5, compressed, auriculate, ca. 0.7 × 0.5 mm, styles ca. 1 mm, stigma purplish red. Fruit red to dark purple or purplish black when mature, subglobose, 4-6 mm in diam. Seeds ovoidoblong. Fl. Feb-May, fr. May-Aug. 2n = 40.

Thickets, mountain slopes; 200–3200 m. Gansu, Guangxi, Guizhou, Henan, Hong Kong, Hubei, Hunan, Jiangsu, Shaanxi, Sichuan, Xizang, Yunnan [Bhutan, India, Kashmir, Myanmar, Nepal, Pakistan].

2. Coriaria intermedia Matsumura, Bot. Mag. (Tokyo) 12: 62. 1898

台湾马桑 tai wan ma sang

Coriaria japonica A. Gray subsp. *intermedia* (Matsumura) T. C. Huang; *C. summicola* Hayata.

Shrubs small, 1–2 m tall, much branched; branchlets purplish red, 4-angled, lenticular-lenticellate; bud scales ovate, 2–3 mm, membranous. Leaves opposite; petiole to 1–2 mm, inflated

into pad at base; leaf blade ovate-lanceolate, (2.5-)3.5-6.5(-7) \times (1–)1.3–2.2(–3) cm, membranous or papery, both surfaces glabrous, 3-veined to apex, veins raised abaxially, slightly impressed adaxially, lateral veins slightly impressed adaxially, base broadly cuneate or subrounded, margin entire, apex acuminate. Raceme axillary, 2-4 cm, with numerous triangular bud scales at base. Pedicel 2-3 mm. Sepals ovate-orbicular, ca. 2.5 × 2 mm, margin fringed denticulate at apex, apex Petals oblong, small, 0.5-1 × ca. 0.5 mm. Filaments linear, ca. 5 mm, inflexed; anthers linear-oblong, ca. 2.5 mm. Female flowers with or without sterile stamens; carpels 5, laterally compressed, auriculate, ca. 0.7×0.5 mm, adaxially \pm united at middle part; styles erect, ca. 1 mm; stigma pink, ca. 1.5 mm. Fruit red when mature, globose, 3–4 mm in diam. Fl. Jan–Apr, fr. May–Nov. 2n = 40.

Forests, thickets; below 2500 m. Taiwan [Philippines].

3. Coriaria terminalis Hemsley, Hooker's Icon. Pl. 23: t. 2220. 1892

草马桑 cao ma sang

Coriaria terminalis var. xanthocarpa Rehder & E. H. Wilson.

Herbs subshrubby, 0.5-1 m tall; branches few; branchlets tetragonous or slightly narrowly winged, purplish glandular pubescent. Leaves sessile or shortly petiolate; leaf blade: lower ones broadly ovate or almost orbicular, $4-6(-7.5) \times 3-5$ cm, upper ones or those on lateral branches ovate-lanceolate or oblong-lanceolate, $2.5-4 \times ca$. 1.5 cm, papery, both surfaces glan-

dular pubescent, basally (3–)5–9-veined, base cordate and semi-amplexicaul or subrounded, margin glandular ciliate, apex acute or rounded, mucronate at tip. Raceme terminal, 12.5–21 cm; rachis purplish red, white glandular pilose. Flowers small, unisexual and plant monoecious; bracts purple, lanceolate, 3–4 mm. Pedicel 3–6 mm, elongated to 1.2 cm at fruiting, glandular pilose. Sepals broadly ovate, ovate, or ovate-lanceolate, 2.5–3 \times 1.3–2.5 mm, outside grayish white puncticulate, margins translucent, apex acuminate or acute. Petals ovate, small, 1–1.5 \times ca.

0.6 mm, fleshy, enlarged after anthesis. Filaments linear, ca. 0.8 mm; anthers oblong, 2–2.5 mm. Carpels 5, laterally compressed, ca. 1 mm; styles short; stigma ca. 2 mm. Fruit purplish red to black when mature, 2.5–3 mm in diam. Fl. May–Jun, fr. Jul–Sep. 2n = 40.

Thickets on mountain slopes; 1800-3700 m. W Sichuan, S and SE Xizang, NW Yunnan [Bhutan, India, Nepal].