

3. CYCLOCARYA Iljinskaya, Trudy Bot. Inst. Akad. Nauk S.S.S.R., ser. 1, Fl. Sist. Vyssh. Rast. 10: 115. 1953.

青钱柳属 qing qian liu shu

Pterocarya sect. *Cycloptera* Franchet.

Trees deciduous, monoecious. Branchlets with chambered pith. Terminal buds oblong, naked. Leaves odd-pinnate; leaflets (5 or)7 or 9(or 11), margin serrate. Inflorescences lateral or terminal on old or new growth, pendulous; male and female inflorescences separate: male spikes in clusters of 3–5, lateral on old growth; female spike solitary, terminal on new growth. Flowers anemophilous. Male flowers with an entire bract; bracteoles 2; sepals 2; stamens 20–31, anthers pubescent. Female flowers subtended by a small, entire bract, adnate to bracteoles and virtually submerged in wing complex; bracteoles 2, united and adnate to ovary; sepals 4, adnate to ovary, free at apex; style short; stigmas commissural, 2-lobed, plumose. Fruiting spike elongate, pendulous. Fruit a disc-winged nutlet, 2–4-chambered at base. Germination most likely hypogeal.

• One species: China.

This taxon is sometimes treated as a section or subgenus of *Pterocarya*, but generic rank seems preferable, based on the fossil record and several distinctive features, including clusters of male spikes (vs. solitary), low pollen pore number (3–5 vs. 4–9), bract fused with bracteoles (vs. not fused), commissural stigmas (vs. carinal), and disc-winged nutlets (vs. 2-winged).

1. *Cyclocarya paliurus* (Batalin) Iljinskaya, Trudy Bot. Inst. Akad. Nauk S.S.S.R., ser. 1, Fl. Sist. Vyssh. Rast. 10: 115. 1953.

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Pterocarya paliurus Batalin, Trudy Imp. S.-Peterburgsk. Bot. Sada 13: 101. 1893; *Cyclocarya paliurus* var. *micropaliurus* (Tsoong) P. S. Hsu & al.; *P. micropaliurus* Tsoong.

Trees to 30 m tall. Leaves 20–25 cm; petiole 2.5–5 cm, tomentose or sometimes glabrescent; rachis tomentose; leaflets (5 or)7 or 9(or 11); lateral leaflets sessile or petiolule to 2 mm, blade elliptic-ovate to broadly lanceolate, 5–14 × 2–6 cm, abaxially pubescent along midvein and secondary veins, base oblique, broadly cuneate to subrounded, apex obtuse or acute, rarely acuminate; terminal petiolule 1–15 mm. Fruiting spike 25–30 cm, axis glabrous or pubescent. Nutlets compressed globose, ca. 7 mm; disc wing leathery, orbicular to ovate, 2.5–6 cm. Fl. May–Jun, fr. Jul–Sep.

• Moist forests on mountains; 400–2500 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hubei, Hunan, Jiangsu, Jiangxi, Sichuan, Taiwan, SE Yunnan, Zhejiang.

