

4. CATALPA Scopoli, *Intr. Hist. Natur.* 170. 1777.

梓属 *zi shu*

Trees deciduous. Leaves simple, purple glandular punctate at vein axils abaxially. Inflorescences paniculate, corymbose, or racemose, terminal. Calyx bilabiate or irregularly divided, globose in buds. Corolla campanulate, bilabiate, upper lip 2-lobed, lower lip 3-lobed. Fertile stamens 2, included, inserted at base of corolla tube; staminodes 3. Disc conspicuous. Ovary 2-locular; ovules several. Capsule dehiscing loculicidally, long terete; valves thin; septum slender, terete. Seeds in several rows, rounded, thin membranous, with hair tufts at both ends.

About 13 species: N America and E Asia; four species in China.

1a. Inflorescences cymose-paniculate or paniculate; flowers pale yellow or white.

2a. Corolla yellow, 2-striate at throat and purple spotted adaxially; leaves broadly ovate, 3-dentate above middle, scabrous on both sides 1. *C. ovata*

2b. Corolla yellow-white, pale purple spotted at throat adaxially; leaves ovate-rounded, densely pubescent abaxially 2. *C. tibetica*

1b. Inflorescences corymbose or racemose; flowers pale red or pale purple.

3a. Leaves triangular-cordate; inflorescences few flowered, lateral branches simple 3. *C. bungei*

3b. Leaves ovate; inflorescences many flowered, lateral branches complex 4. *C. fargesii*

1. *Catalpa ovata* G. Don, *Gen. Hist.* 4: 230. 1837.

梓 *zi*

Bignonia catalpa Thunberg; *Catalpa henryi* Dode; *C. kaempferi* Siebold & Zuccarini.

Trees ca. 15 m tall; young branches sparsely pubescent.

Leaves opposite or nearly so, sometimes whorled; petiole 6–18 cm; leaf blade broadly ovate, ca. 25 × 25 cm, scabrous, sparsely pubescent, or glabrescent, base cordate, margin entire or sinuate, usually 3-lobed, apex acuminate; lateral veins 4–6 on each side of midrib, palmately 5–7-veined basally. Inflorescences paniculate, terminal; peduncle sparsely pubescent, 12–28 cm. Calyx bilabiate, 6–8 mm. Corolla campanulate, pale yellow, yellow 2-striate and purple spotted at throat, ca. 2.5 × 2 cm. Anthers divergent. Style filiform; stigma 2-lobed. Capsule linear, nodding, 20–30 cm × 5–7 mm. Seeds long ellipsoid, 6–8 × ca. 3 mm, villous at both ends. Fl. May–Jun, fr. Aug–Oct. $2n = 40^*$.

• Slopes; (500–)1900–2500 m. Anhui, Gansu, Hebei, Heilongjiang, Henan, Hubei, Jiangsu, Jilin, Liaoning, Nei Mongol, Ningxia, Qinghai, Shaanxi, Shandong, Shanxi, Sichuan, Xinjinag [introduced elsewhere].

The fruit are used medicinally for promoting diuresis.

2. *Catalpa tibetica* Forrest, *Notes Roy. Bot. Gard. Edinburgh* 13: 155. 1921.

藏楸 *zang qiu*

Shrubs or small trees, ca. 5 m tall. Leaves broadly ovate, ca. 23 × 22 cm, thin leathery, dark green and glabrous adaxially, pale green and densely pubescent abaxially, basally 5-veined, base slightly cordate or truncate, margin entire, apex acuminate or obtuse. Inflorescences corymbose-paniculate, 16–25 cm, glabrous. Calyx divided to base into 2 parts; lobes navicular. Corolla yellow-white, pale purple spotted at throat, ca. 4.5 cm; tube enlarged basally, 2.5–4 cm in diam. at mouth; limb nearly bilabiate; lobes rounded, glabrous. Stamens inserted at base of corolla tube; staminodes minute.

Ovary glabrous. Stigma 2-lobed. Capsule terete, striate, ca. 30 × 1 cm. Seeds ellipsoid, thin membranous, filiform pubescent at both ends. Fl. May–Jun, fr. Aug–Sep.

• Slopes, forests; 2400–2700 m. SE Xizang, NW Yunnan.

3. *Catalpa bungei* C. A. Meyer, *Bull. Acad. Imp. Sci. Saint-Petersbourg* 2: 51. 1837.

楸 *qiu*

Catalpa syringifolia Bunge.

Trees 8–12 m tall. Petiole 2–8 cm; leaf blade triangular-ovate or ovate-oblong, 6–15 × ca. 8 cm, glabrous abaxially, dark green adaxially, base broadly cuneate or cordate, apex long acuminate. Inflorescences corymbose-racemose, terminal, 2–12-flowered. Calyx bilabiate, apex acutely 2-dentate. Corollapale red, yellow 2-striate and dark purple spotted at throat, 3–3.5 cm. Capsule linear, 25–45 cm × ca. 6 mm. Seeds narrowly ellipsoid, ca. 10 × 2 mm, villous at both ends. Fl. May–Jun, fr. Jun–Oct. $2n = 40^*$.

• Roadsides. Gansu, Hebei, Henan, Hunan, Jiangsu, Shaanxi, Shandong, Shanxi, Zhejiang; cultivated in Guangxi, Guizhou, and Yunnan.

4. *Catalpa fargesii* Bureau, *Nouv. Arch. Mus. Hist. Nat.*, ser. 3, 6: 195. 1894.

灰楸 *hui qiu*

Catalpa duclouxii Dode; *C. fargesii* Wilson, *C. fargesii* f. *duclouxii* (Dode) Gilmour; *C. sutchuenensis* Dode; *C. vesita* Diels.

Trees ca. 25 m tall. Petiole 3–10 cm, glabrous or pubescent; leaf blade ovate or triangular-cordate, 13–20 × 10–13 cm, thick leathery, base truncate or slightly cordate, apex acuminate; lateral veins 4 or 5 on each side of midrib. Inflorescences corymbose-racemose, 7–15-flowered, glabrous or pubescent. Calyx divided nearly to base into 2 parts; lobes ovate-rounded. Corolla campanulate, pale red to pale purple, purple spotted adaxially, ca. 3.2 cm. Stamens included; staminodes

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inserted at base of corolla tube; anthers divergent, 3–4 mm. Style filiform, ca. 2.5 cm; stigma 2-lobed. Capsule terete, nodding, 55–80 cm; fruiting septum leathery, 2-lobed. Seeds terete, linear, thin membranous, filiform hairy at both ends with hairs 5–6 cm. Fl. Mar–May, fr. Jun–Nov.

• Roadsides, slopes; 700–1300(–2500) m. Gansu, Guangdong, Guangxi, Guizhou, Hebei, Henan, Hubei, Hunan, Shaanxi, Shandong, Sichuan, Yunnan; frequently cultivated.

