

8. ***Rhizomnium punctatum*** (Hedw.) T. Kop. mao deng xian

Ann. Bot. Fenn. 5: 143. 1968. *Astrophyllum punctatum* (Hedw.) Lindb., Musci Scand. 13. 1879. *Mnium punctatum* Hedw., Sp. Musc. Frond. 193. 1801. Type: Europe.

*Mnium pseudopunctatum* C. Müll. in Kab., Hedwigia 76: 63. 1936, *hom. illeg.*

*Mnium punctatum* var. *eupunctatum* Kab., Hedwigia 76: 63. 1936.

*Plants* rather large, dark green to reddish brown, glossy, in loose tufts. *Stems* erect, 2.5–4.0 cm high, rarely branched, sparsely foliate, with dense rhizoids at base. *Leaves* rather stiff, thick, not crisped when dry, slightly undulate, broadly obovate, broadly elliptical, 4.0–7.0 mm × 3.5–4.5 mm, narrowed and decurrent at base, rounded-obtuse and apiculate at apex; margins entire, bordered by 3–4 rows of elongate cells; costae ending above mid-leaf, rarely ending just below the apex; leaf cells rather large, pentagonal to hexagonal, ca. 40–50 µm wide, moderately thick-walled, hardly porose, only slightly thickened at corners. *Dioicous*. *Setae* solitary, 1.8–4.0 cm long, straight or flexuous, reddish; capsules oblong-ovoid to shortly cylindrical, 3–4 mm × 1.3–1.5 mm, horizontal to pendulous; opercula rostrate.