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## 楼梯草属四新种\*

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### FOUR NEW SPECIES OF *ELATOSTEMA* (URTICACEAE) FROM CHINA

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**Abstract** Four new species of the genus *Elatostema* are described. They are *E. coriaceifolium* W. T. Wang, *E. glochidioides* W. T. Wang, *E. liboense* W. T. Wang, and *E. baiseense* W. T. Wang

**Key words** Urticaceae; *Elatostema*; new species.

**关键词** 荨麻科; 楼梯草属; 新种

革叶楼梯草 图 1: 1—2

*Elatostema coriaceifolium* W. T. Wang, sp. nov.

Affine *E. crassiusculo* W. T. Wang, quod caulibus sparse adpresseque pubescentibus cystolithis densis praeditis, foliis majoribus usque ad 4.4 cm longis 1.8 cm latis basi latere latiore cuneatis vel rotundatis supra ad costam strigulosis differt.

Herba perennis. Rhizoma breve, caules 5—7, 14—18.5 cm altos 1—1.5 mm crassos simplices glabros inferne sparse furfuraceos 11—20-foliatos emittens. Folia sessilia vel brevissime petiolata, glabra; laminae coriaceae, oblique ellipticae vel rhomboideo-ellipticae, 1.2—2.4 cm longae, 0.8—1.1 cm latae, apice acutae, basi latere angustiore cuneatae, eo latiore auriculatae, margine latere angustiore superne 2—3-denticulatae eo latiore supra medium 3—4-denticulatae, cystolithis bacilliformibus densis conspicuis 0.3—0.5 mm longis, semitriplinerves, nervis lateralibus utrinsecus c. 2; petioli usque ad 0.5 mm longi; stipulae lineari-lanceolatae, 1—1.6 mm longae, 0.2—0.3 mm latae. Inflorescentiae pistillatae singulariter axillares, breviter pedunculatae, 3—4 mm diam.; pedunculi c. 1 mm longi, glabri; receptacula suborbicularia vel late oblonga, c. 2 mm

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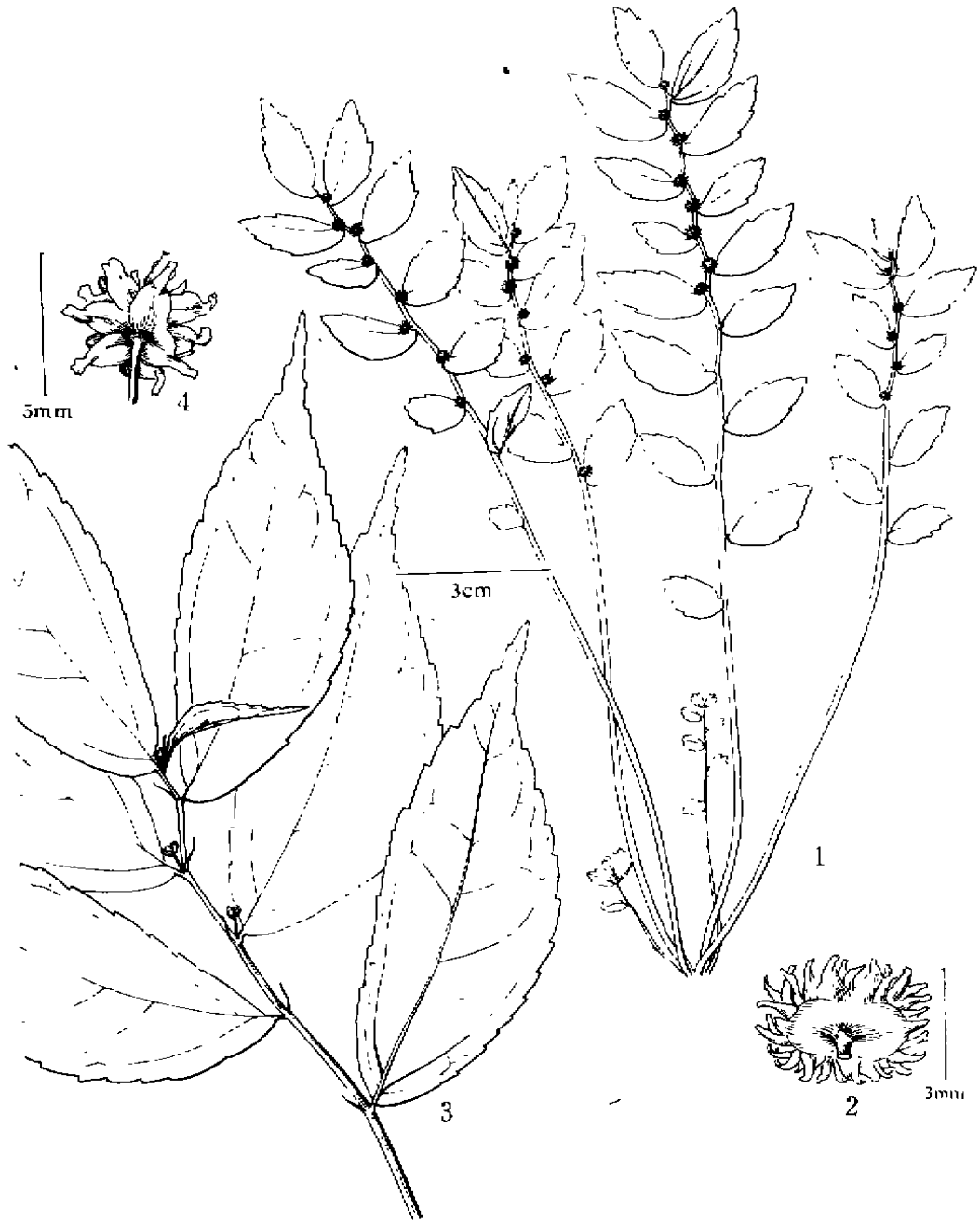


图1 1—2. 革叶楼梯草 1. 植株; 2. 雌花序(下面观)。3—4. 百色楼梯草 3. 植株上部; 4. 雄花序(下面观)。

Fig. 1 1—2. *Elatostema coriaceifolium* 1. habit; 2. lower view of a pistillate inflorescence.

3—4. *E. beiseense* 3. upper part of plant; 4. lower view of a staminate inflorescence.

diam., glabra; bracteae c. 5, triangulares, c. 1.1 mm longae, 0.6—1.4 mm latae, apice leviter cucullatae, dorso superne plus minusve cristatae vel breviter

corniculatae, cornibus c. 0.1 mm longis, sparse ciliolatae, ceterum glabrae, atro-brunneo-striolatae; bracteolae densissimae, lineares vel anguste lineares, 0.9—1.1 mm longae, 0.1—0.4 mm latae, majores apice cucullatae, margine superne sparse ciliolatae, atro-brunneo-striolatae. Flores pistillati numerosi; tepala nulla; ovarium ovoideum, c. 0.3 mm longum; stigma c. 0.1 mm longum.

**Guizhou (贵州):** Libo (荔波), Wengangmegan (翁昂莫干), alt. 850 m, on rocks under dense forests 1984.04.29, Chen Qian-hai et al. (陈谦海等) 2289 (holotype, HGAS); same locality, Jidong (吉洞), alt. 550 m, in wet places of valley, 1984.04.17, Wang Xue-ming et al. (王雪明等) 190 (HGAS).

**Guangxi (广西):** Luoye (乐业), Tungluo (同乐), alt. 900 m, in cavern of limestone hill, fl. green, 1989.05.07, Exped. Hongshuihe. Inst. Bot. Kunming. (昆明植物所红水河队) 89-1039 (PE).

本种与厚叶楼梯草 *E. crassiusculum* W. T. Wang 亲缘关系相近, 但茎无毛, 无钟乳体, 叶较小, 长 1.2—2.4 cm, 宽 0.8—1.1 cm, 基部宽侧耳形, 无毛而不同。在后者, 茎疏被贴伏柔毛, 有密集钟乳体, 叶较大, 长达 4.4 cm, 宽达 1.8 cm, 基部宽侧楔形或圆形, 上面中脉被短糙伏毛。

#### 算盘楼梯草 图 2: 5—7

*Elatostema glochidioides* W. T. Wang, sp. nov.

Species foliis parvis margine integris insignis, ob caules ramosos, folia cystolithis majusculis praedita, inflorescentias pistillatas receptaculis parvis instructas fortasse affine *E. myrtilus* (Lévl.) Hand. Mazz., quoad foliis margine superne serrulatis haud ciliatis, bracteis inflorescentiarum pistillatarum haud corniculatis, floribus pistillatis tepalis minutis praeditis distinguitur.

Herba perennis. Caules c. 25 cm longi, inferne c. 1.8 mm crassi, ramosi, glabri, inferne sparsissime furfuracei. Folia sessilia vel brevissime petiolata; laminae papyraceae, lanceolatae, oblongo-lanceolatae, anguste ovatae vel ellipticae, 1.1—3 cm longae, 0.4—0.9 cm latae, apice attenuatae vel acutae, basi latere angustiore cuneatae, eo latiore obtusae rotundatae vel auriculatae, margine integrae, ciliolatae, supra ad partem inferiorem costae strigulosae, subtus glabrae, cystolithis bacilliformibus conspicuis 0.4—0.7 mm longis, trinerves, nervis lateralibus latere angustiore unicis eo latiore duobus saepe indistinctis; petioli usque ad 0.8 mm longi, glabri; stipulae anguste triangulares, c. 0.6 mm longae, glabrae. Inflorescentiae pistillatae singulariter axillares, brevissime pedunculatae, 2.5—4 mm diam.; pedunculi 0.5 mm longi, glabri; receptacula parva, c. 1.8 mm diam., glabra; bractea c. 7, c. 1 mm longae, una triangularis, haud corniculata, ceterae late lineares, apice cucullatae et corniculatae, cornibus 0.2—0.5 mm longis, margine superne ciliatae; bracteolae densae, lineari-oblancoolatae vel lineares, 0.8—1 mm longae, margine ciliatae. Flores pistillatae numerosi; tepala

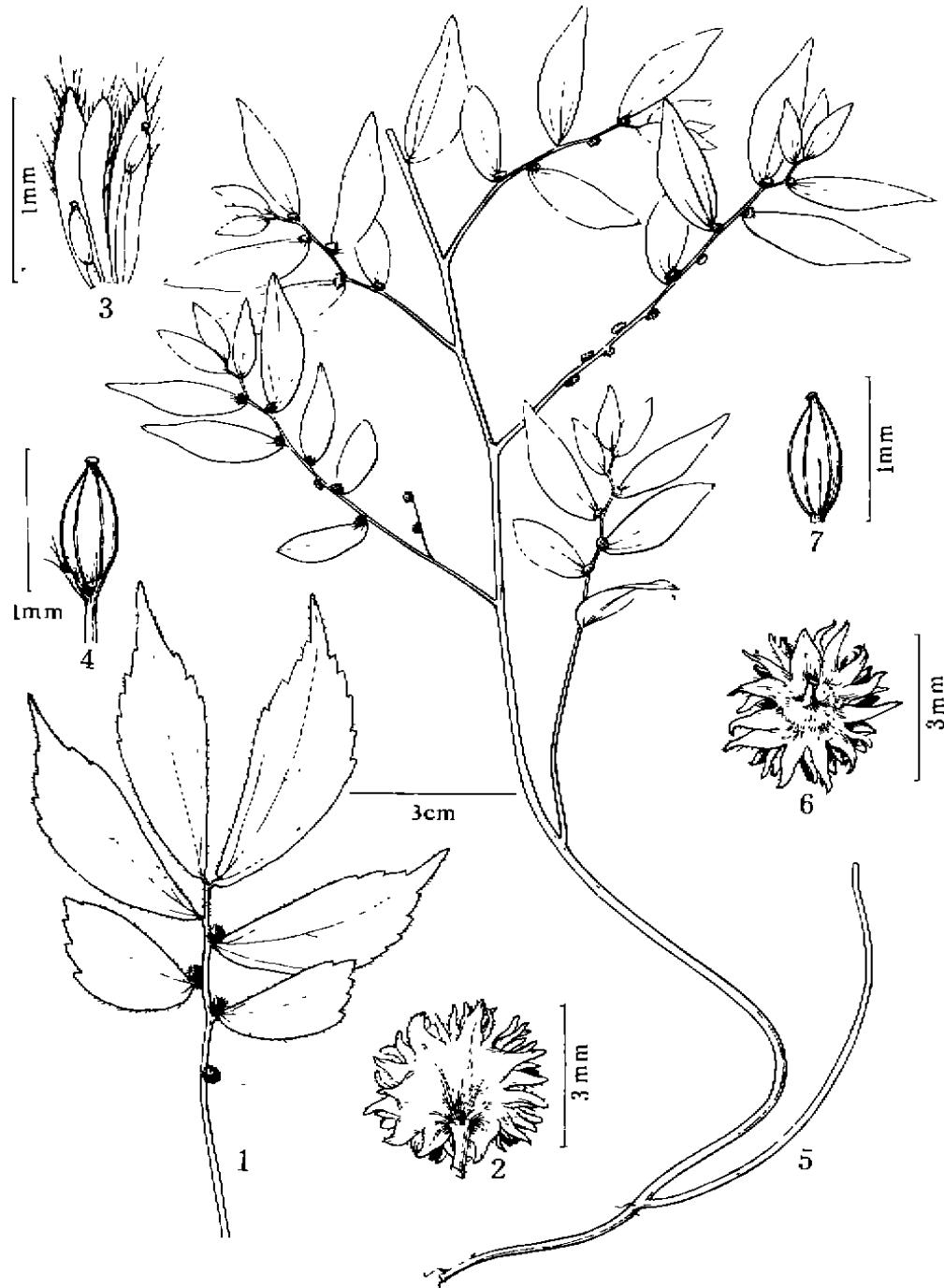


图2 1—4. 荔波楼梯草 1. 植株上部; 2. 雌花序(下面观); 3. 小苞片和雌花; 4. 瘦果。5—7. 算盘楼梯草  
5. 植株; 6. 雌花序(下面观); 7. 瘦果。

Fig.2 1—4. *Elatostema liboense* 1. upper part of plant; 2. lowerview of a pistillate inflorescence;  
3. bracelets and pistillate flowers; 4. achene. 5—7. *E. glochdioides* 5. habit; 6. lower view of a pistillate  
inflorescence; 7. achene.

nulla; ovarium ovoideum, c. 0.3 mm longum; stigma c. 0.1 mm longum. Achenia ellipsoideo-ovoidea, c. 0.6 mm longa, longitudinaliter 7-costata.

**Guizhou** (贵州): Libo (荔波), e Wengangmegan (翁昂莫干) ad Dongdue (洞多), alt. 800 m, fl. green, 1984.04.27. Chen Qian-hai et al. (陈谦海等) 2217 (holotype, HGAS).

本种的叶小, 边缘全缘, 是其特征; 根据其茎分枝, 叶具较大的钟乳体, 雌花序的花序托小等特征, 可能接近疣茎楼梯草 *E. myrtilus* (Lévl.) Hand.-Mazz., 但叶边缘全缘, 有短睫毛, 雌花序苞片顶端具角状突起, 雌花无花被片而可区别。在后者, 叶边缘上部有小齿, 无睫毛, 雌花序苞片无角状突起, 雌花有小花被片。

**荔波楼梯草** 图 2: 1—4

*Elatostema liboense* W. T. Wang, sp. nov.

Affine *E. asterocephalo* W. T. Wang, quod caulibus glabris inferne sparse brunneo-furfuraceis, foliis glabris basi latere latiore auriculatis, receptaculis inflorescentiarum pistillatarum minutis inconspicuis glabris diversum.

Herba perennis. Caules c. 18 cm alti, supra basin c. 2 mm crassi, simplices, dense atro-brunneo-furfuracei, prope apicem sparse patenterque puberuli, superne 5—7-foliati. Folia sessilia vel breviter petiolata; laminae papyraceae, oblique oblanceolatae vel oblique angusteque obovatae, 2.6—6.2 cm longae, 1—2 cm latae, apice acuminatae vel acutae, basi latere angustiore cuneatae, eo latiore obtusae, margine latere angustiore superne 1—3-denticulatae, eo latiore supra medium 3—5-denticulatae, supra strigosae, subtus strigulosae, cystolithis bacilliformibus conspicuis densis 0.3—0.5 (—0.6) mm longis, trinerves, nervis lateralibus utrinsecus 2—3; petioli usque ad 2 mm longi; stipulae caducae. Inflorescentiae pistillatae singulariter axillares, brevissime pedunculatae, 2.5—4 mm diam.; pedunculi robusti, c. 1.5 mm longi; receptacula late oblanceolata vel quadrata, 2.5—3.5 mm longa, sparse puberula; bracteae c. 9, triangulares, 0.7—1 mm longae, 0.7—1.2 mm latae, apice cucullatae, saepe breviter corniculatae, cornibus 0.2—0.4 mm longis, extus pubescentes; bracteolae densissimae, lineares vel oblanceolato-lineares, 0.4—1 mm longae, majores apice cucullatae, margine superne longe ciliatae. Flores pistillati plurimi; tepala nulla vel inconspicua, interdum apice sparse pilosa; ovarium longe ellipsoideum, c. 0.28 mm longum; stigma subglobosum, minutum. Achenia longe ellipsoidea, c. 0.6 mm longa, longitudinaliter 6-costata.

**Guizhou** (贵州): Libo (荔波), Wengangmegan (翁昂莫干), alt. 850 m, on rocks under dense forests, 1984.04.28, Chen Qian-hai, Wang Xue-ming et Chen Xun 2326 (陈谦海, 王雪明, 陈训) (holotype, HGAS).

本种与星序楼梯草 *E. asterocephalum* W. T. Wang 相近缘, 但茎密被暗褐色软鳞片, 近顶端处疏被开展短柔毛, 叶上面被糙伏毛, 下面被短糙伏毛, 基部宽侧钝, 雌

花序托明显, 长圆形或四方形, 长 2.5—3.5 mm, 疏被短柔毛而不同。在后者, 茎无毛, 下部有稀疏褐色软鳞片, 叶无毛, 基部宽侧耳形, 雌花序托极小, 不明显, 无毛。

百色楼梯草 图 1: 3—4

*Elatostema baiseense* W. T. Wang, sp. nov.

Affine *E. pseudodissecto* W. T. Wang, quod planta herbacea, caulibus haud furfuraceis, foliis basi latere latiore late cuneatis trinerviis, stipulis minoribus anguste triangularibus usque ad 1.5 mm longis, pedunculis inflorescentiarum staminatarum 2.5—4 cm longis, earum bracteis paucioribus tantum tribus recedit.

Suffrutex parvus. Caules c. 45 cm alti, 2 mm crassi, inferne ramosi, glabri, brunneo-furfuracei. Folia breviter petiolata, glabra; laminae tenuiter papyraceae, oblique ellipticae, 3.6—10 cm longae, 1.5—4 cm latae, apice longe acuminatae vel acuminatae, acuminibus margine utrinsecus 1—2-denticulatis, basi latere angustiore cuneatae, eo latiore auriculatae, margine supra basin denticulatae, cystolithis bacilliformibus vel punctiformibus densis 0.1—0.4 (—0.45) mm longis, semitriplinervis, nervis lateralibus latere angustiore c. 3 eo latiore c. 5; petioli 2—4 mm longi; stipulae subulatae vel anguste lineares, 2—6 mm longae, 0.2—0.5 mm latae. Inflorescentiae staminatae singulariter axillares, longiuscule pedunculatae, 4—6 mm diam., c. 25-florae; pedunculi 5—10 mm longi, glabri; receptacula parva, 1—1.5 mm diam., glabra; bractee 6 vel 8, 2 exteriores parvae, subdeltoideae, 1.5—1.7 mm longae, 2 mm latae, apice longe corniculatae, cornibus 1.2—1.7 mm longis, 4 vel 6 interiores majores, late naviculari-ovatae vel naviculari-ellipticae, 2.5—2.8 mm longae, 2 mm latae, extus infra apicem cristatae, glabrae; bracteolae ovatae vel naviculari-lineares, 2—3 mm longae, 0.5—2 mm latae, glabrae. Flores staminati breviter pedicellati, glabri; tepala 5, naviculari-elliptica, c. 2.2 mm longa, 2 mm lata, basi connata, extus infra apicem breviter corniculata, cornibus c. 0.1 mm longis; stamina 5; pistillodium minutum.

Guangxi (广西): Baise (百色), Yangyu (阳圩), Liugan (六敢), alt. 320 m, in evergreen forests 1985.06.19, Zhu Wei-ming, Zhou Hou-gau et Wu Zhao-lu (朱维明, 周厚高, 吴兆录) 18479 (holotype, PE).

本种接近滇桂楼梯草 *E. pseudodissectum* W. T. Wang, 但为小半灌木, 茎被褐色软鳞片, 叶基部宽侧耳形, 具半离基三出脉, 托叶较大, 钻形或狭条形, 长 2—6 mm, 雄花序梗稍长, 长 5—10 mm, 雄花序的苞片较多, 6 或 8 枚而不同。在后者, 为草本植物, 茎无软鳞片, 叶基部宽侧宽楔形, 具三出脉, 托叶较小, 狭三角形, 长达 1.5 mm, 雄花序梗稍短, 长 2.5—4 mm, 雄花序的苞片较少, 仅 3 枚。