

## 毛茛科二新种

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**摘要** 描述了分别自甘肃和四川发现的毛茛科二新种, 永登翠雀花和攀枝花唐松草, 并分别给出此二种与近缘种之间的形态区别特征。

**关键词** 毛茛科; 翠雀属; 唐松草属; 新种; 中国

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## Two New Species of Ranunculaceae from China

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**Abstract** Two species of the family Ranunculaceae, *Delphinium yongdengense* and *Thalictrum panzhihuaense*, are described as new from Gansu Province and Sichuan Province, and the morphological differences between them and their allies are given respectively.

**Key words** Ranunculaceae; *Delphinium*; *Thalictrum*; new species; China

### 永登翠雀花 图 1: A ~ D

***Delphinium yongdengense*** W. T. Wang, sp. nov. Fig. 1: A - D

(Sect. *Delphinium* DC. ser. *Caerulea* W. T. Wang)

Species nova haec est affinis *D. caeruleo* Jacq. ex Camb., quod foliorum laminis majoribus basi cordatis, earum segmentis rhombicis vel flabellatis bis ad ter dissectis, sepalis inferis totis planis apice nec navicularibus nec corniculatis, staminodiorum limbis late obovatis vel suborbicularibus ventro flavo-barbatis, staminibus glabris praeclare differt.

Prennial herb. Stem purple, ca. 35 cm tall, below ca. 2.5 mm across, inconspicuously longitudinally 6-sulcate, densely retrorsely appressed-puberulous (hairs 0.2 - 0.4 mm long), from below dichotomously branched. Basal leaves not seen. Lower cauline leaf ternate (?), shortly petiolate; leaflet shortly petiolulate, its blade green, at base subtruncate, 3-

sect, segments linear, 0.8 - 3.5 × 0.12 - 0.2 cm, at margin entire, involute, adaxially densely appressed-puberulous, abaxially on midrib pilose, midrib adaxially impressed, abaxially slightly prominent; petiole purple, linear, ca. 10 × 1.5 mm, densely appressed-puberulous (hairs 0.2 - 0.4 mm long) and mixed with a few long hairs 1 - 2 mm long. Upper cauline leaves simple, shortly petiolate; blades at base broadly cuneate, 3-sect, segments linear, 0.7 - 2 × 0.1 - 0.2 cm, entire; petioles 3.5 - 5 mm long. Corymbs terminal, 3 - 7-flowered, rarely flowers singly terminal to branches; bracts shortly petiolate or sessile, similar to upper cauline leaves, 1 - 3.5 cm long, either 3-sect with 3 linear segments, or undivided, linear; pedicels 5 - 12.5 cm long, appressed-puberulous, near the middle 2-bracteolate; bracteoles purple, narrowly lanceolate-linear, 6 - 10 × 0.4 - 0.6 mm, puberulous. Flower: Sepals 5, deeply blue, adaxially glabrous, abaxially densely appressed-puberulous; upper sepal narrowly ovate, 1.3 -

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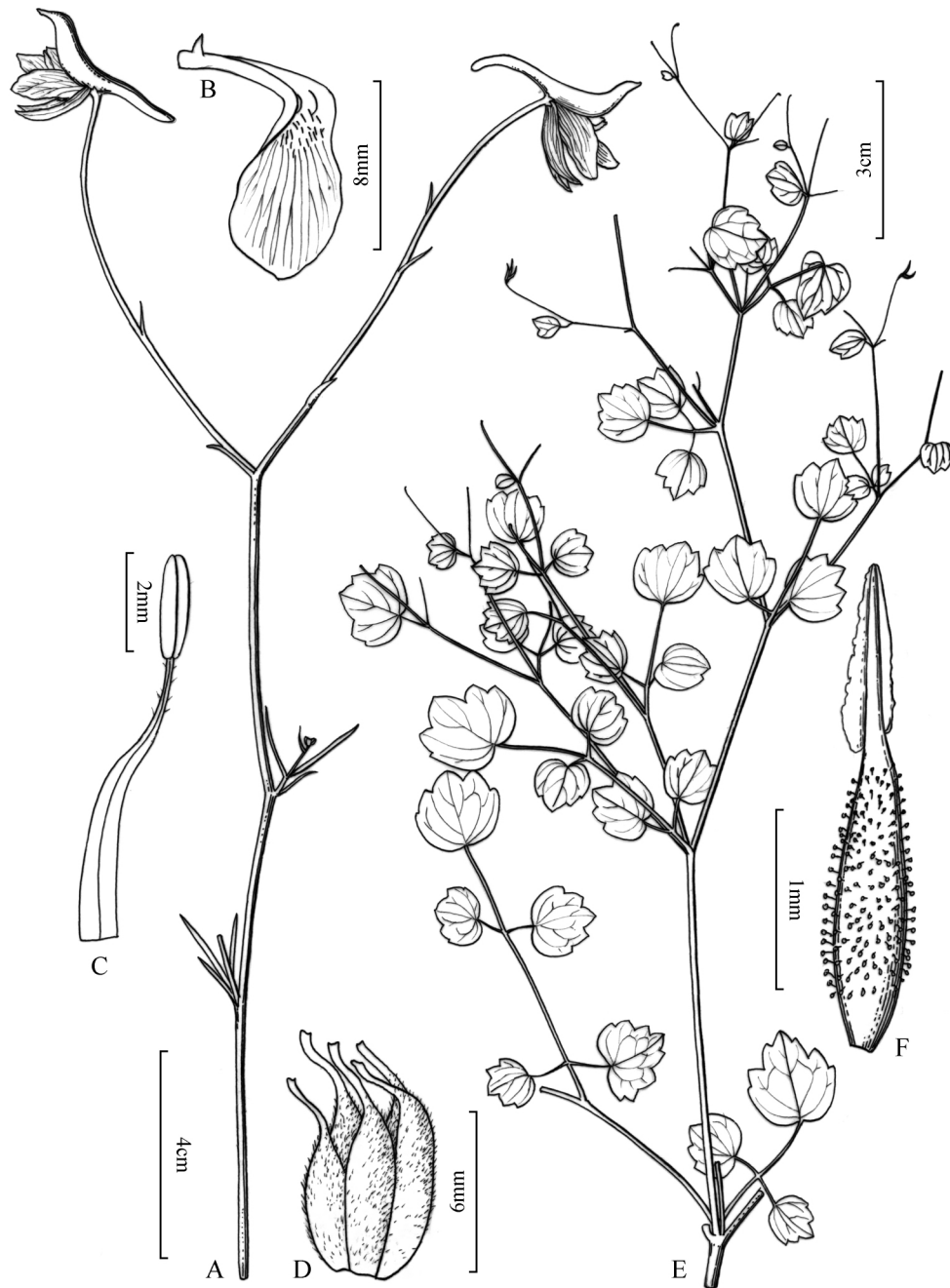


图1 A~D. 永登翠雀花: A. 开花枝条; B. 退化雄蕊; C. 雄蕊; D. 雌蕊群 E~F. 攀枝花唐松草: E. 开花枝条, 花多凋谢, 只少数花尚有雌蕊群; F. 心皮

Fig. 1 A~D. *Delphinium yongdengense*: A. Flowering branch; B. Staminode; C. Stamen; D. Gynoecium (from holotype) E~F. *Thalictrum panzhihuaense*: E. Flowering branch, with most flowers having wilted and a few of them still bearing gynoecium; F. Carpel (from holotype)

1.7 × 0.5 - 1 cm, spur subulate, 1.4 - 1.6 cm long, apex decurved, base 3 - 3.5 mm across; lateral sepals ovate-oblong, 1.3 - 1.7 × 0.3 - 0.6 cm; lower sepals narrowly oblong, 1.3 - 1.85 × 0.4 - 0.5 cm, apex navicular, sometimes shortly corniculate. Petals 2, blue, glabrous, apex entire and with

white margin. Staminodes 2, blue; claws ca. 6 mm long, glabrous, above base with a small triangular appendage; limbs oblong-obovate, ca. 8 × 5 mm, undivided, at apex rounded, with ca. 10 longitudinal nerves, adaxially above base densely whitish-barbate. Stamens numerous; filaments 4 - 7 mm long,

below narrowly triangular or linear-triangular, above filiform and pilose; anthers dark-blue, oblong, 1.8 – 2 mm long, glabrous. Carpels 5; ovaries oblong, 5 – 6 mm long, densely appressed-puberulous; styles ca. 2 mm long, glabrous.

甘肃( Gansu):永登县 连城自然保护区,沙林沟( Yongdeng Xian, Liancheng Nature Reserve, Shalin Valley), alt. 2 475 m, 2006 – 08 – 01, 张学刚( Zhang Xuegang) 06137( holotype, PE).

本种在亲缘关系方面与蓝翠雀花( *Delphinium caeruleum* Jacq. ex Camb.) 相近, 与后者的区别在于本种的茎生叶或为三出复叶或为单叶, 基部近截形或宽楔形, 复叶的小叶或单叶均 3 全裂, 全裂片均呈条形, 不分裂, 花萼的 2 枚下萼片顶端呈船形, 有时还具短角状突起, 退化雄蕊的瓣片长圆状倒卵形, 腹面基部之上被白色髯毛, 雄蕊花丝上部疏被柔毛。在蓝翠雀花, 叶的基部呈心形 3 全裂, 全裂片呈菱形或扇形 2 至 3 回细裂, 花萼的 2 枚下萼片平坦, 顶端不呈船形, 也不具角状突起, 退化雄蕊的瓣片宽倒卵形或近圆形, 腹面基部之上被黄色髯毛, 雄蕊无毛<sup>[1]</sup>。

#### 攀枝花唐松草 图 1: E ~ F

*Thalictrum panzhihuaense* W. T. Wang, sp. nov. Fig. 1: E – F

( Sect. *Thalictrum* ser. *Virgata* W. T. Wang & S. H. Wang)

Ob caules, petiolos, foliolorum paginas adaxiales, pedicelos et ovaria glanduloso-puberula, et flores 2 – 4 in monochasium dispositos species nova haec est affinis *T. viscosum* C. Y. Wu ex W. T. Wang & S. H. Wang endemico in valle fluminis Jinsha partis borealium urbis Lijiang provinciae Yunnan, quod foliis caulinis 3-pinnatis 15 – 60-foliolatis, foliolis minoribus 0.6 – 1.1 cm longis et latis basi cordatis, nervis basalibus 5 subtus planis, stigmatibus anguste linearibus haud alatis facile differt.

Perennial herb. Stem ca. 30 cm tall, below ca. 1.5 mm across, with petioles, leaf rachises and pedicels all densely glandular-puberulous ( hairs 0.1 – 0.2 mm long), much branched. Basal leaves not seen. Cauline leaves 5-foliolately pinnate or ternate,

shortly petiolate; blades narrowly ovate or deltoid in outline, 2.5 – 5 × 2.2 – 3.5 cm; leaflets chartaceous, petiolulate, broadly ovate or pentagonal, 0.8 – 1.6 × 0.8 – 2.2 cm, at base subcordate, 3-lobulate or undivided, at margin sparsely crenate or rounded-dentate, adaxially densely glandular-puberulous, abaxially on nerves hirtellous; basal nerves 5, adaxially flat, abaxially prominent; petiolules slender, 0.4 – 1.5 cm long; petioles 0.5 – 0.8 cm long. Monochasia terminal, 2 – 4-flowered; bracts ternate or simple and similar to leaflets; pedicels slender, 0.5 – 1.7 cm long. Flower: Sepals and stamens not seen. Carpels 2 – 4; ovaries long ellipsoidal or narrowly lanceolate, 1.5 – 1.8 × 0.4 mm, densely glandular-puberulous; stigmas narrowly triangular, ca. 1 × 0.3 mm, glabrous, margins of membranous wings slightly erosulate.

四川( Sichuan):攀枝花市,苏铁山( Panzhihua Shi, Sutie Shan) alt. 1 600 – 1 700 m, 山坡灌丛( in bushes on slope), 2002 – 09 – 13, 张钢民( Zhang Gangmin) 638( holotype, PE).

本种的茎、叶柄、小叶表面、花梗和心皮的子房均被短腺毛, 花 2 ~ 4 朵组成单歧聚伞花序, 因此与也具有这些特征的粘唐松草( *Thalictrum viscosum* C. Y. Wu ex W. T. Wang & S. H. Wang) ( 特产云南丽江虎跳峡) 在亲缘关系上相近。本种与后者的区别在于本种的茎生叶为具 5 小叶的一回羽状复叶或具 3 小叶的三出复叶, 小叶较大( 长 2.5 ~ 5 cm, 宽 2.2 ~ 3.5 cm), 基部近心形或近截形, 其 5 条基出脉在下面明显隆起, 心皮的柱头狭三角形, 有膜质薄翅。在粘唐松草, 茎生叶为三回羽状复叶, 有 15 ~ 60 枚小叶, 小叶较小, 长及宽均为 0.6 ~ 1.1 cm, 基部心形, 其 5 条基出脉在下面平坦, 心皮的柱头狭条形, 无翅<sup>[2]</sup>。

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