

basi in petiolos breviores angustata; folia sub calathidiis lineari-subulata, minima. Calathidia pauca, 7 in numero, ad apicem caulis et ramorum inflorescentiam corymbosam formantia. Involucrum anguste cylindricum, 7 mm longum, sub fructu nigro-viride, cujus phylla 4-seriata, extrema externaque brevissima, ovata, vix 1 mm longa et lata, apice acuta, intima internaque lanceolata 7 mm longa, 1 mm lata, intus hirtella, extus glabra. Flosculi ligulati, flavi. Achaenia fusiformia, 2—2.5 mm longa, apice truncata, costis 11, inaequalibus, spinulosis. Pappus albus, 5 mm longus.

Sichuan (四川): Heishui (黑水), ad ripam, alt. 2500 m, 1957-07-21, Li Xin (李馨) 73707 (Typus, PE).

6 康定黄鹤菜 新种

Youngia kangdingensis Shih, sp. nov.

Ex affinitate *Y. yilingii* Shih, e ea differt foliis utrinque papiloso-pilosis.

Herba parva perennis, radice graciliore, verticali vel obliqua. Caulis fere nudus, gracillimus, 7—14 cm altus, e basi vel medio corymboso-ramosus, glaber vel sub calathidiis sparsim pubescens. Folia basalia ambitu oblanceolata vel elliptica, 0.9—2 cm longa, 0.5 cm lata, petiolata, petiolis 0.5 cm longis, vel pinnatipartita, pinnatisecta, lobis terminalibus ellipticis, oblique triangularibus, margine integris, lobis lateralibus 1—3-jugis, auriculiformibus, vel indivisa, linearia vel lineari-lanceolata, basi in petiolos breves cuneato-angustata; folia ad furcas ramorum inflorescentiae minima, subulata vel bracteiformia; omnia utrinque vel subtus papiloso-pilosa. Calathidia 3—5 in numero, ad apicem caulis et ramorum inflorescentiam corymbosam irregulariter formantia, pedunculis gracillimis et longioribus. Flosculi 15 in numero, flavi ligulati. Involucrum anguste cylindricum, 8 mm longum, cujus phyllis 4-seriatis, extremis externisque brevissimis, triangularibus vel ovatis, 1 mm longis, vix 1 mm latis, apice obtusis, intimis intermisque longissimis, longe ellipticis, 8 mm longis, 1.2 mm latis, ad apicem dorso corniculatis, omnibus extus glabris. Achaenia fusiformia, 3.4 mm longa, costis 12, inaequalibus, spinulosis, erostrata. Pappus 5.4 mm longus, albus.

Sichuan (四川): Kangding (康定), inter frutices alpinos, alt. 3300 m, 1982-07-26, K. Y. Lang et al. (郎楷永等) 650 (Typus, PE).

7 尖裂黄鹤菜 新种

Youngia cristata Shih et Cai*, sp. nov.

Y. parvae Babcock et Stebbins valde similis, sed differt aliquibus phyllis intimis internisque dorso juxta apicem corniculatis.

Herba caespitosa perennis rosularis, 4 cm alta, caule principali brevissimo inconspicuo, superne inconspicue corymboso-ramoso, omnino sparse tomentosa vel glabrescenti. Folia densa, caulina, tamquam rosularia, basi in petiolum alatum 2 cm longum angustata, utrinque sparse tomentosa, ambitu oblanceolata, 2—2.5 cm longa, 1 cm lata, pinnatipartita,

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pinnatifida vel pinnatilobata, lobis lateralibus 4—6-jugis, inaequalibus, anguste triangularibus, apice acutis, infimis dentiformibus. Calathidia pauca, pedunculata, pedunculis albotomentosis. Flosculi 14, ligulati, flavi, tubis glabris. Involucrum cylindrico-campanulatum, 8—9 mm longum, nigro-viride, cujus phyllis 4-seriatis, extremis externisque brevissimis, ovatis vel lanceolatis, 2—4 mm longis, 1—1.5 mm latis, apice obtusis vel acutis, intimis internisque lanceolatis, 8—9 mm longis, 1.5 mm latis, apice longe acutis, intus glabris, aliquibus dorso juxta apicem corniculatis, omnibus glabris. Achaenia immatura, apice truncata. Pappi setae 2-seriatae, albae, 7 mm longae, minute scaberulae.

Xizang (西藏): Zayü (察隅), alt. 3900 m, 1935-09, C. W. Wang (王启无) 66121 (Typus, PE).

8 沙湾还阳参 新种 图 3:1

Crepis shawanensis Shih, sp. nov.

Ex affinitate *C. chrysanthae* (Ledeb.) Turcz., e qua differt foliis ellipticis, utrinque laxa hirsutis.

Herba perennis, rhizomate brevi crasso. Caulis 30—50 cm altus erectus, eramosus, inferne dense, superne laxe hirsutus, sub calathidiis laxe hirsutus et sericeus. Folia basalia elliptica, petiolis inclusis 5—9 cm longa, 2 cm lata, basi in petiolos anguste alatos cuneato-angustata; folia inferiora mediaque longe elliptica, apice acuta, basi cuneata, sessilia vel breviter petiolata; folia superiora minora vel minima, lanceolata vel lanceolato-subulata vel subulata; omnia utrinque laxe hirsuta, margine apiculata. Calathidium solitarium, sub eo e axillis foliorum superiorum subulatorum calathidiis 1—2 obsolete. Flosculi ligulati, flavi, tubis glabris. Involucrum campanulatum, cir. 8 mm longum, cujus phyllis 4-seriatis, extremis externisque inaequalibus, lanceolatis usque ad 3 mm longis, 1 mm latis, apice acutis, intimis internisque lanceolatis, 8 mm longis, 1 mm latis, apice acutis, margine membranaceis, intus glabris, omnibus extus secus costas medias nigro-hirsutis. Achaenia immatura. Pappus albus.

Xinjiang (新疆): Shawan (沙湾), in declivitate aprica, alt. 1750 m, 1965-07-18, T. Y. Chou (周太炎) 651044 (Typus, PE).

9 草甸还阳参 新种 图 4:1

Crepis pratensis Shih, sp. nov.

Species nostra *C. tectis* L. affinis, sed involucri phyllis extus glabris differt.

Herba perennis, radice elongata, verticali vel obliqua. Caulis solitarius, nudus vel fere nudus, 15—50 cm altus, superne paniculato-, vel paniculato-corymboso-ramosus, omnino glaber, basi reliquiis petiolorum veterum brunneis. Folia basalia et infima numerosa, spathulata, ligulata, longe elliptica vel linearia, petiolis inclusis 3—11 cm longa, 0.7—1.5 cm lata, basi in petiolos longiores vel breviores angustata, apice acuta, margine acuto-serrulata vel fere integra vel integra; folia inferiora pauca, linearia, anguste linearia, lineari-subulata, minora, margine pauco-serrulata vel integra; omnia textura crassa, utrinque glabra. Ca-