



## *Ligularia phoenicochaeta* (Franchet) Liu (1987) is a later isonym of *L. phoenicochaeta* (Franchet) Handel-Mazzetti (1925)

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### Introduction

*Senecio phoenicochaetus* Franchet (1892: 295; “*phaenicochaetus*”) was described on the basis of two collections, *J.M. Delavay 2191* (P) and *J.M. Delavay 2473* (A, K, P), from Lijiang, northwestern Yunnan, China. It was recognized as a distinct species either in *Cremanthodium* Benthams (1873: 37) (Good 1929, Handel-Mazzetti 1936, Hu 1966, Wu 1984, Min 2014) or in *Ligularia* Cassini (1816: 198) (Handel-Mazzetti 1925, Liu 1987, 1989, Chen & Li 1994, Liu & Illarionova 2011) by all the later authors but Kitamura (1939), who treated it as *Senecillis phoenicochaeta* (Franchet) Kitamura (1939: 87; “*phaenicochaeta*”). *Senecillis* Gaertner (1791: 453), however, was later sunk as a section of *Ligularia*, i.e. *L. sect. Senecillis* (Gaertner) Kitamura (1942: 187).

It is evident that Liu (1987), in proposing the new combination *Ligularia phoenicochaeta* (Franchet) Liu (1987: 32) based on *Senecio phoenicochaetus*, was unaware that Handel-Mazzetti (1925) had previously made, albeit somewhat inadvertently, an earlier new combination, i.e. *L. phoenicochaeta* (Franchet) Handel-Mazzetti (1925: 13). In the protologue of *L. cremanthodioides* Handel-Mazzetti (1925: 13), the author contrasted this species with four other species, stating that “*Lig. phoenicochaeta* quoque similis foliis rigidis pappo brevi rufo corolla lata differt”. According to Article 41.4 of the *International Code of Nomenclature for algae, fungi, and plants* (Melbourne Code) (McNeill *et al.* 2012), this statement, made before 1 January 1953, has fulfilled the conditions for the valid publication of the new combination *L. phoenicochaeta* (Franchet) Handel-Mazzetti. Consequently, the combination *L. phoenicochaeta* (Franchet) Liu, which was accepted by Liu (1989), Chen & Li (1994), and Liu & Illarionova (2011), has no nomenclatural status and should be treated as a later isonym of *L. phoenicochaeta* (Franchet) Handel-Mazzetti.

### Taxonomic treatment

*Ligularia phoenicochaeta* (Franchet 1892: 295; “*phaenicochaetus*”) Handel-Mazzetti (1925: 13); Liu (1987: 32), isonym. *Senecio phoenicochaetus* Franchet (1892: 295; “*phaenicochaetus*”). *Cremanthodium phoenicochaetum* (Franchet 1892: 295) Good (1929: 279). *Senecillis phoenicochaeta* (Franchet 1892: 295) Kitamura (1939: 87; “*phaenicochaeta*”).

Type:—CHINA. Yunnan: Likiang (= Lijiang), 4000 m a.s.l., 13 August 1886, *J.M. Delavay 2473* (lectotype P00723327!, first-step, Good 1929: 279; second-step, designated here; isolectotypes A!, K!, P00723326!, P00723328!).

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