
A New Species of *Posoqueria* (Rubiaceae) from Bahia, Brazil

Leila Macias

Departamento de Botânica, Instituto de Biologia, Universidade Federal de Pelotas (UFPEL),
Caixa Postal 354, CEP 96010-900 Pelotas, RS, Brazil. lmacias@uol.com.br

Luiza Sumiko Kinoshita

Departamento de Botânica, Instituto de Biologia, Universidade Estadual de Campinas
(UNICAMP), Caixa Postal 6109, CEP 13083-970 Campinas, SP, Brazil.
luizakin@unicamp.br

ABSTRACT. *Posoqueria bahiensis* from southern Bahia, Brazil, is described as a new species. It differs most notably from all the other species of the genus in being totally glabrous except at the corolla fauce and anthers and in the densely multiflowered inflorescence with ca. 40 flowers.

Key words: Brazil, *Posoqueria*, Rubiaceae.

During the revision of the genus *Posoqueria* Aublet, it was evident that specimens from southern Bahia, Brazil, represent a new species. *Posoqueria bahiensis* is herein described and illustrated.

Posoqueria is a Neotropical genus belonging to the subfamily Ixoroideae, tribe Gardenieae, subtribe Gardeniinae (Robbrecht, 1988, 1993). The Brazilian species were mainly treated by Schumann (1889). The whole genus was treated by Macias (1988), who recognized 14 species.

Posoqueria bahiensis L. Macias & L. S. Kinoshita, sp. nov. TYPE: Brazil, Bahia: Maraú, restinga, 6 Oct. 1965 (fl), R. P. Belém 1877 (holotype, UB; isotypes, CEPEC, IAN, NY, VEN). Figure 1.

Posoqueria latifoliae (Rudge) Roemer & Schultes foliorum textura tantum similis sed planta omnis glabra (fauce et antheris pilosis), inflorescentiis densis ca. 40 floribus differt.

Treelet up to 5 m high, entirely glabrous. Leaf blades 13.8–32 × 6.8–23 cm, ovate, oblong to elliptic, acute or acuminate at apex, entire or rarely slightly undulate and slightly revolute at margin, rounded at base, strongly coriaceous, dark green and shining above, paler and slightly opaque beneath, secondary nerves in 5 to 8 pairs, alternate or subopposite; petioles 1.5–3 cm long; stipules interpetiolar, 0.8–1.5 × 0.5–0.8 cm, deltoid, acute at apex. Inflorescence almost spherical, ca. 30 cm diam.; 3-times branched corymbiform cymes, peduncle 6–8 cm long; bracts linear, 5–8 mm long.

Flowers ca. 40, very fragrant, pedicels 0.6–1.3 cm long; bracteoles linear, ca. 2 mm long. Hypanthium ca. 2 mm long, obovoid, glabrous; calyx limb-tube ca. 2 mm long with a few colleters inside at the base; calyx lobes triangular, ca. 1 mm long, ciliate; corolla hypocrateriform, 9–14 cm long, tube pale green, 6–12 cm long, 1–2 mm wide at base, internal proximal region minutely papillate, distal region with conspicuous sparsely distributed round papillae; fauce glabrous to sparsely villous; lobes white, 1.5–1.8 × 0.3–0.5 cm, oblong, rounded at apex. Filaments 1.8–2 mm long; anthers ca. 0.5 cm long, linear-lanceolate, sparsely puberulous. Hypanthium glabrous; style 4–4.9 cm long, stigma ca. 2 mm long. Fruits ovoid, coriaceous, 3.5–5.2 × 2.8–3.8 cm, apricot colored (*in vivo*), seeds blackish, ca. 1.1 × 0.7 cm.

Distribution. In southern Bahia, Brazil, in disturbed rain forest.

Phenology. Flowering in October; fruit collected in January to September.

Posoqueria bahiensis differs from other species of the genus in the glabrescent corolla fauce and anthers, the densely flowered inflorescence (ca. 40 flowers), and the strongly coriaceous leaves. Table 1 shows a character comparison among four species of *Posoqueria* morphologically related to *P. bahiensis*. *Posoqueria bahiensis* is similar to *P. latifolia* (Rudge) Roemer & Schultes in the texture of the leaves, but differs by the dense inflorescence with ca. 40 flowers. It is also similar to *P. williamsii* Steyermark, but differs in leaf indumentum and texture and number of flowers. The new species also resembles *P. maxima* Standley, but this has lax inflorescences with only 10 to 20 flowers. *Posoqueria bahiensis* is known only from southern Bahia, Brazil.

Paratypes. BRAZIL. **Bahia:** Parque Nacional de Monte Pascoal, on NW side of Monte Pascoal at low al-

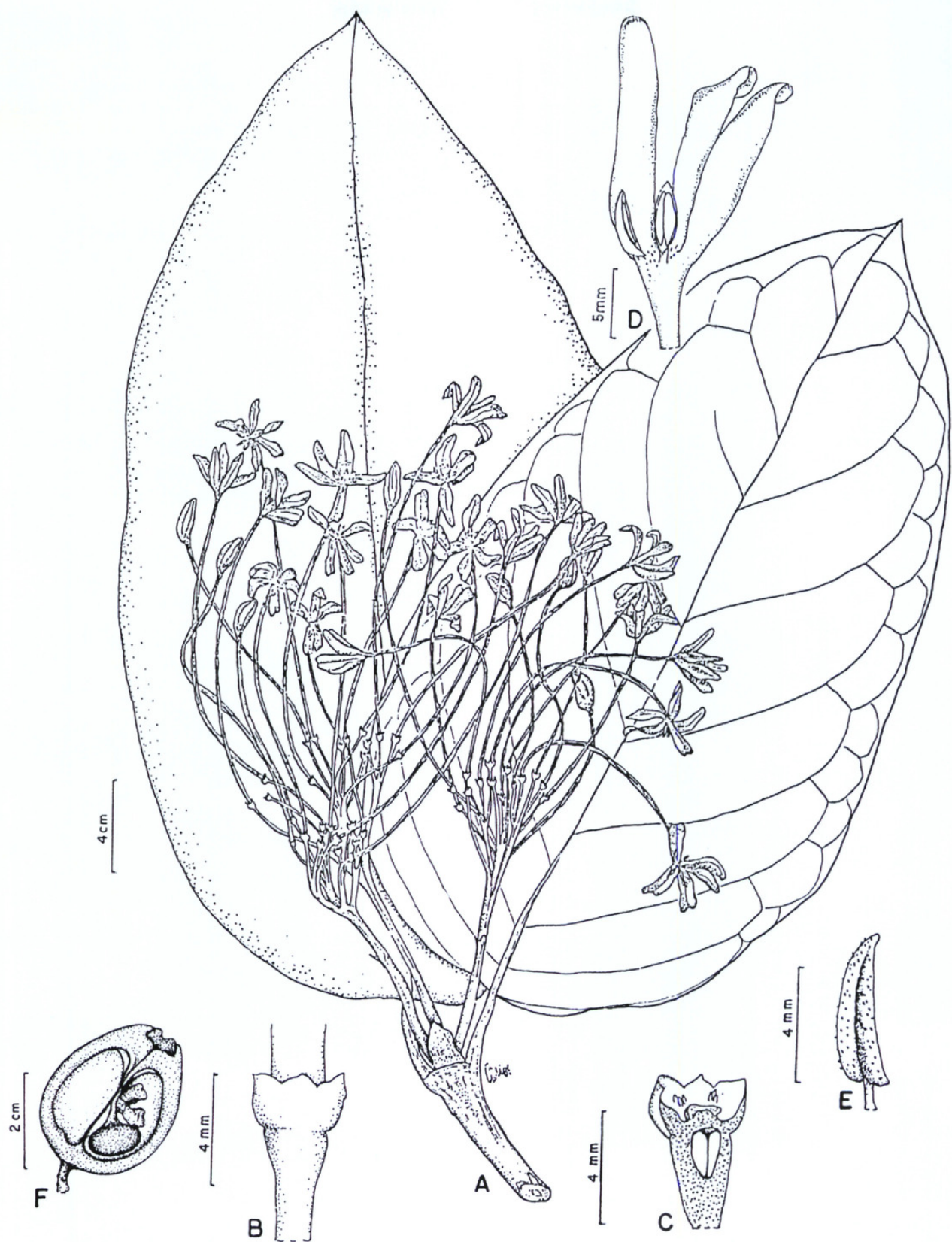


Figure 1. *Posoqueria bahiensis* L. Macias & L. S. Kinoshita. —A. Flowering branch. —B. Hypanthium, external view. —C. Ovary, longitudinal section showing the colleters alternating with the lobes. —D. Corolla fauce and anthers. —E. Stamen, sparsely puberulous anthers. —F. Longitudinal section of the fruit. (A–E from *Belém* 1877, UB; F from *Harley et al.* 17898, CEPEC.)

Table 1. Comparison of some morphological characters among five *Posoqueria* species.

Species	Leaf size (cm)	Leaf shape	Leaf indumentum	Leaf texture	Inflorescence	Flower number	Distribution
<i>P. acutifolia</i>	5.5–8.5 × 1.4–4.7	Elliptical, lanceolate to oblong-lanceolate	Glabrous	Chartaceous to sub-chartaceous	Lax	10–20	Brazil: Minas Gerais, Rio de Janeiro, São Paulo
<i>P. bahiensis</i>	13.8–32 × 6.8–23	Ovate, oblong to elliptical	Glabrous	Strongly coriaceous	Dense	Ca. 40	Brazil: Bahia
<i>P. latifolia</i>	10–30 × 5–15	Elliptical, ovate-lanceolate to wide ovate	Glabrous to puberulous on abaxial side	Chartaceous to coriaceous	Sublax	6–30	Southern Mexico to southern Brazil
<i>P. maxima</i>	25–30 × 16–24	Ovate, widely ovate to suborbicular	Glabrous	Chartaceous to subcoriaceous	Lax	10–20	Colombia, Ecuador, Peru
<i>P. williamsii</i>	25–39.5 × 13.5–17	Lanceolate-ovate to elliptical-ovate	Glabrous adaxially, villous abaxially	Subcoriaceous	Dense	20–30	Costa Rica, Panama, Venezuela

titude, between IBDF field hut and gates of the Parque Nacional, 39°25'W, 16°53'S, 12 Jan. 1977 (fr), *R. M. Harley et al.* 17898 (CEPEC); Uruçuca, District of Serra Grande, 7.3 km along road Serra Grande/Itacaré, Fazenda Lagoa do Conjunto Fazenda Santa Cruz, 39°01'W, 14°25'S, 4 Feb. 1991 (fr), *J. C. Jardim et al.* 607 (CEPEC, MO), 11–21 Set. 1991, (fr), *A. M. Carvalho et al.* 3521 (CEPEC), 26 Oct. 1993 (fl), *W. W. Thomas et al.* 10166 (CEPEC).

Acknowledgments. The authors thank Tarciso S. Filgueiras for revision of the Latin diagnosis and the curators of the following herbaria for making their collections available for study: CEPEC, IAN, NY, UB, VEN. They also thank CAPES for grant support for Leila Macias during studies for her M.Sc. thesis.

Literature Cited

Macias, L. 1988. Revisão Taxonômica do Gênero *Posoqueria* Aubl. (Rubiaceae). Tese de Mestrado, Instituto de Biologia, Universidade de Campinas, Campinas. [Unpublished.]

Robbrecht, E. 1988. Tropical woody Rubiaceae. Characteristic features and progressions. Contributions to a new subfamilial classification. *Opera Bot. Belg.* 1: 1–271.

———. 1993. Supplement to the 1988 outline of the classification of the Rubiaceae—Index to genera. *In*: E. Robbrecht (editor), *Advances in Rubiaceae Macrosystematics*. *Opera Bot. Belg.* 6: 173–196.

Schumann, K. 1889. Rubiaceae. Pp. 329–340 *in* C. F. P. von Martius, A. G. Eichler & I. Urban (editors), *Flora Brasiliensis*. V. 6. Fleischer, Leipzig.



Kinoshita-Gouvêa, Luíza Sumiko and Macias, L. 2003. "A new species of *Posoqueria* (Rubiaceae) from Bahia, Brazil." *Novon a journal of botanical nomenclature from the Missouri Botanical Garden* 13, 206–208.

<https://doi.org/10.2307/3393521>.

View This Item Online: <https://www.biodiversitylibrary.org/item/14673>

DOI: <https://doi.org/10.2307/3393521>

Permalink: <https://www.biodiversitylibrary.org/partpdf/25152>

Holding Institution

Missouri Botanical Garden, Peter H. Raven Library

Sponsored by

Missouri Botanical Garden

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.