

## Accepted Manuscript

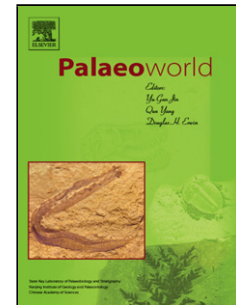
Title: Fossil leaves of *Buxus* (Buxaceae) from the Upper Pliocene of Yunnan, SW China

Authors: Hua-Sheng Huang, Tao Su, Zhe-Kun Zhou

PII: S1871-174X(17)30114-2  
DOI: <https://doi.org/10.1016/j.palwor.2017.12.003>  
Reference: PALWOR 435

To appear in: *Palaeoworld*

Received date: 23-9-2017  
Revised date: 15-12-2017  
Accepted date: 29-12-2017



Please cite this article as: Huang, Hua-Sheng, Su, Tao, Zhou, Zhe-Kun, Fossil leaves of *Buxus* (Buxaceae) from the Upper Pliocene of Yunnan, SW China. *Palaeoworld* <https://doi.org/10.1016/j.palwor.2017.12.003>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Fossil leaves of *Buxus* (Buxaceae) from the Upper Pliocene of Yunnan, SW China**

Hua-Sheng Huang<sup>a, b, c</sup>, Tao Su<sup>a, \*</sup>, Zhe-Kun Zhou<sup>a, d, \*</sup>

<sup>a</sup> Key Laboratory of Tropical Forest Ecology, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Mengla 666303, China

<sup>b</sup> University of Chinese Academy of Sciences, Beijing 100049, China

<sup>c</sup> Department of Ecosystem & Landscape Dynamics, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, 1098 XH Amsterdam, The Netherlands

<sup>d</sup> Key Laboratory for Plant Diversity and Biogeography of East Asia, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650204, China

\* Corresponding authors at: Key Laboratory of Tropical Forest Ecology, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Mengla 666303, China.

*E-mail addresses:* zhouzk@xtbg.ac.cn (Z.K. Zhou), sutao@xtbg.org.cn (T. Su).

**Abstract**

A new species, *Buxus pliosinica* H.S. Huang, T. Su et Z.K. Zhou n. sp. (Buxaceae) is designated based on leaf architecture and cuticular features of five compressed fossil leaves from the Upper Pliocene Sanying Formation of Yunnan, SW China. Leaves of *B. pliosinica* are elliptic and small, with entire margin, retuse tip, intramarginal vein, and exmedially ramified tertiary veins. The leaves are hypostomatic with anomocytic stomatal apparatuses and giant stomata. Based on comparisons of leaf morphological and cuticular features, *B. sempervirens* Linnaeus is considered as the nearest living relative of *B. pliosinica*. Morphologically, these species share similar elliptic shape and size, cuneate base, retuse tip, similar ranges of petiole length, angles of 2° vein to midvein, and distance from the intramarginal vein to the margin. In terms of cuticular features, they are similar in type of stomatal

Download English Version:

<https://daneshyari.com/en/article/8916549>

Download Persian Version:

<https://daneshyari.com/article/8916549>

[Daneshyari.com](https://daneshyari.com)