

中国高等植物

HIGHER PLANTS OF CHINA

第六卷

VOLUME 6



青岛出版社

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前 言

我国地处欧亚大陆东南部,东南濒临太平洋,西北深处欧亚大陆腹地,西南与南亚次大陆接壤,面积960万平方公里,地势西高东低,西南部有世界最高的青藏高原,山峦重迭,河流交错,湖泊众多,拥有渤海、黄海、东海及南海四大海域,南北相距5500公里,跨越温带、亚热带及热带,地貌、土壤及自然条件复杂多样,具有适宜众多生物物种生存和繁衍的各种生境。在中生代至新生代第三纪气候温暖,第四纪冰期时未受北方大陆冰川覆盖,自第三纪以来气候比较稳定,导致我国植物物种极为丰富,仅高等植物(苔藓、蕨类、裸子及被子植物)约3万种,在不同地带组成各种植被类型。

中国植物学工作者经过几代人的艰苦工作,80多年来在全国各地采集了约1700万份标本,保存在各省区、直辖市植物标本馆(室)中,为植物分类学研究工作奠定了坚实的基础。近40年来,经过三代植物分类学家的共同奋斗,编著了三部中国植物分类学巨著——《中国高等植物图鉴》(以下简称《图鉴》)、《中国植物志》(以下简称《植物志》)和《Flora of China》。

当今,在全球保护植物物种多样性与合理开发、持续利用野生植物资源的大好形势下,为满足我国农、林、工、牧、医药、环保、科研、教育等部门广大科技人员和基层工作者对植物分类的需求,决定编著一部科、属齐全,种数较多,中名、拉丁名考证正确,简明、实用,图文并茂的中国植物分类学新著——《中国高等植物》。全书记载约2万种植物,收载森林、植被及园林中的常见种,有经济或科研价值的物种,分布在两省区以上或毗邻国家分布较广而在我国仅在某周边省区有分布的物种,每个属的代表种,以及常见引种栽培的外来种。全书分十四卷出版,苔藓、蕨类及裸子植物用《苔藓植物志》及《中国植物志》(第二至七卷)系统,被子植物各科按Cronquist系统排列。第一卷:苔藓植物,第二卷:蕨类植物,第三卷:包括裸子植物及被子植物木兰科至杜仲科,第四卷:榆科至藤黄科,第五卷:杜英科至岩梅科,第六卷:山榄科至蔷薇科,第七卷:含羞草科至毒鼠子科,第八卷:黄杨科至伞形科,第九卷:马钱科至唇形科,第十卷:透骨草科至假牛繁缕科,第十一卷:忍冬科至菊科,第十二卷:花荵科至禾本科,第十三卷:黑三棱科至兰科,第十四卷:中名和拉丁名索引。各科有分属检索表,各属有分种检索表。每种植物均有中名,少数种有常用别名;有拉丁名及原始文献,若拉丁名为组合名称,则列出基名及其文献,凡《图鉴》或《植物志》所用拉丁学名与现用名不一致,或两书中的名称已被归并或为错误鉴定均予列出,并在其拉丁名后注明《图鉴》或《植物志》的卷号及页码;每种植物有形态、分布、生境的记述,有些种还记述其主要用途;每种植物均有形态图和县级地理分布图(外来种及附录种除外),形态图除新绘图和使用《图鉴》等原图外,还抄绘了已出版的志书或期刊上的图,均注有原绘图人姓名或引自书刊名称。有些植物还附有彩片。

本书是中国植物分类学家和绘图同志通力合作的智慧结晶,参加编研工作的专家约140位,并得到所在单位领导的支持。在收集、补充每种植物的具体分布资料的工作中,得到了各省、区专家及标本馆同志们的大力帮助,谨此表示衷心的感谢。

由于编审工作任务繁重,出版时间紧迫,特别是全国植物标本数据库尚未建立,首次绘制的每种植物分布图中难免有所遗误,不足之处,衷心欢迎海内外读者批评指正。

本书编委会
1998年10月

FOREWORD

China, with an area of 9 600 000 km², is situated in the southeastern part of the continent of Eurasia, facing the Pacific Ocean to the southeast, penetrating deep into the Eurasia heartland to the northwest, and connecting with the South Asian Subcontinent to the southwest. It ranges continuously through temperate, subtropical, and tropical regions and is about 5 500 km across from the north to the south. It has very diverse natural habitats, such as complicated mountainous regions, abundant river systems and lakes, and four major sea areas, namely the Bohai Sea, the Yellow Sea, the North China Sea, and the South China Sea. With the Qinghai-Tibet Plateau, the highest in the world, located in the southwest, the country is high in the west and descends gradually eastwards forming many favorable habitats for a rich number of living organisms. From the Mesozoic to the Tertiary Period in the Cenozoic, the climate is warm in China and has been relatively stable since then partially due to the fact that the country was not covered by the northern continental glaciers in the Quaternary Period. As a result, China has a rich flora with about 30 thousands species of higher plants (bryophytes, pteridophytes, gymnosperms, and angiosperms) forming various types of vegetations in different areas.

Over the past 80 years, generations of Chinese botanists have collected nationwide about 17 million specimens, which are preserved in provincial and other local herbaria and have laid a solid foundation for plant taxonomic researches in China. During the past 40 years, three monumental taxonomic publications, namely *Iconographia Cormophytorum Sinicorum (ICS)*, *Flora Reipublicae Popularis Sinicae (FRPS)*, and *Flora of China* have been completed or established through the continued efforts of three generations' Chinese plant taxonomists.

The *Higher Plants of China*, consisting of 14 volumes, is to meet the great needs of a broad scope of researchers worldwide to study Chinese plant conservation, biodiversity, development and sustainable use of natural botanical resource. The work is treating about 20 thousand species representing all the currently recognized plant families and genera in China. The selection of species are determined by their commonness in the wild or under cultivation and their scientific and economic values. They are often distributed in more than two provinces or autonomous regions or are sometimes found in only one province or autonomous region, but are common in neighboring countries. Representative species for each genus, including those introduced and naturalized ones, are often included. The systematic arrangements for bryophytes, pteridophytes, and gymnosperms follow the *Flora Bryophytarum Sinicorum (FBS)* and the *FRPS* (Vol. 2-7), and that for angiosperms follows Cronquist's system. The contents of the volumes are as follows: Vol. 1. Bryophyta; Vol. 2. Pteridophyta; Vol. 3. Gymnospermae and Angiospermae (Magnoliaceae-Eucommiaceae); Vol. 4. Ulmaceae-Clusiaceae; Vol. 5. Elaeocarpaceae-Diapensiaceae; Vol. 6. Sapotaceae-Rosaceae; Vol. 7. Mimosaceae-Dichapetalaceae; Vol. 8. Buxaceae-Apiaceae; Vol. 9. Loganiaceae-Lamiaceae; Vol. 10. Phrymaceae-Theligonaceae; Vol. 11. Caprifoliaceae-Asteraceae; Vol. 12. Butomaceae-Poaceae; Vol. 13. Sparganiaceae-Orchidaceae; and Vol. 14. Index to Chinese and scientific names. Keys to the genera and to species are provided. For each species, its standard and sometimes other commonly used Chinese name, its scientific

name with reference, and a basionym with reference when applicable are provided. Scientific names accepted in the *ICS* and the *FRPS* are also provided with reference of page numbers in these works when they are treated as synonyms or as misidentified names. Each species is illustrated sometimes in color with brief descriptions of morphology, distribution, habitat, and sometimes uses and each is accompanied (except for exotic species) by a distribution map to the county level. Illustrators, photographers, and references when applicable for the illustrations are acknowledged.

This *Higher Plants of China* is an accumulated work of more than 140 Chinese plant taxonomists from many institutions nationwide. Many others from every provincial and other local herbaria have helped with collecting and verifying data especially for the distribution information. Those who have contributed to the work are highly appreciated.

The Editorial Committee

October 1998

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