

中国野生兰科植物 彩色图鉴

NATIVE ORCHIDS OF CHINA IN COLOUR

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著

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内 容 简 介

本书共收录中国野生兰科植物 117 属 403 种和 2 变种。每种均有较详细的形态特征描述,并有产地(国内外)、生境、海拔和花期的记载,含有丰富的第一手资料。书中 791 幅彩色照片大多为作者实地拍摄的,其中不少还是首次发表的。本书属于世界上最大型的野生兰彩色图鉴之一,有很强的科学性、国际性和实用性,对推动兰科植物的研究,发展兰花产业,扩大国际交流,合理开发和保护兰花资源,将起重要的作用。

本书供植物学、园艺学、环境和植物保护工作者以及花卉产业经营者参考。

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序

中国野生兰科植物彩色图鉴 Native Orchids of China in Colour 是当今世界野生兰科图鉴中, 包含种属最多的一部专著。兰科彩色图谱国内外已屡见不鲜, 但绝大多数仅限于栽培和引种的兰花。欧美澳日等发达国家虽有野生兰类彩色图谱问世, 但种类均不超过200种, 而本书却包括115属, 402种2变种。这不仅显示了我国野生兰类绚丽多彩的生物多样性和资源极其丰富复杂的实况, 也显示出作者们在全国范围内野外工作十余年如一日, 深入寻访, 精心拍摄, 辛勤劳动, 全书所含各种不仅有彩照与中英文描述, 包括形态特征、花果期、生境、海拔、国内外分布等内容, 且大多数材料除特写外还有野外生境照片, 其中不乏为首次发表。综上所述, 均可略见本书的悉心编制和精确测定所下的工夫, 更是可供学术研究和艺术欣赏两不偏废的, 也是将合理开发利用野生兰类资源提供可靠的依据。

吴征镒 1998.12.16日

FOREWORD

The orchid family, with well over 20,000 species, comprises about a tenth of all flowering plants. In its diversity and beauty, it is one of the most interesting and attractive of all! Several thousand species of orchids have been cultivated, and the number is growing rapidly each year. The unique floral structure of the orchids and their intricate adaptations to pollination have made them a favorite of naturalists and students for centuries, and their study will continue to hold great interest for the indefinite future.

The evolutionary adaptations of orchids made them an early subject for coevolutionary studies, and Charles Darwin's book: *THE VARIOUS CONTRIVANCES BY WHICH ORCHIDS ARE FERTILIZED BY INSECTS*, of which the second edition appeared in 1888, laid the groundwork for many subsequent studies that have revealed amazing details of these interrelationships. The intricate mycorrhizal relationships between the roots of orchids and fungi, which are indispensable for their nutrition, are also among the most complex coevolutionary relationships known.

The great majority of orchids are tropical, with over 100 species sometimes occurring together at a single locality. In the tropical forests where they are abundant, orchids often occur as epiphytes on tree trunks and branches, or in similar habitats on rocks. Widespread forest destruction throughout tropical and subtropical regions have pushed hundreds of species of orchids to the brink of extinction, and it is fortunate that they are relatively easily cultivated.

The dramatic loss of habitats in China was vividly illustrated by the widespread floods of 1998, and underscores in a different way the fact that many Chinese orchids are threatened or endangered. To protect, conserve and, at last, sustainably use these treasures not only for China but also for the whole world, a sound understanding of the orchid biodiversity is an urgent task facing us today. The book *NATIVE ORCHIDS OF CHINA IN COLOUR* is published at a critical time to meet such needs.

The authors of *NATIVE ORCHIDS OF CHINA IN COLOUR* are also among those who have been working on the treatment of the Orchidaceae for the *Flora Reipublicae Popularis Sinicae* and the *Flora of China*. They are the scientists with the most extensive knowledge of Chinese orchids, their expertise ensuring the quality of this book, which includes 403 species and 791 color images, almost all from natural habitats, as well as precise and detailed descriptions for each species, accounting for nearly a third of all those found in China. The descriptions, given in both Chinese and English, will make this work widely useful within China and abroad. With almost all of the images taken from natural habitats, this book is no doubt the largest of its kind in the world.

Because of the excellence of this work, which will be an important reference for scientists, horticulturists, conservationists, and all those interested in the orchids of China, I am delighted to be able to congratulate the authors on their significant achievement.



Peter H. Raven

作者引言

兰科是有花植物中最大的家族之一，全世界约有 700 属 20000 种之多。其中攀附于巨树高枝或悬崖峭壁上的附生种类占有很大的比例。附生兰的采集是很不充分的，对于其中不少种类的生境至今仍然所知甚少。兰科植物的花大都色彩鲜艳而且结构复杂，单凭标本馆的资料是难以进行精确描述的。近年来，兰花工业发展迅速，数以千计的种类已被引种栽培。因此，对野生兰进行全面的调查研究，以使兰花资源得以可持续的开发利用，已是当务之急。特别是在中国，兰花工业正处于大发展之中。

中国的野生兰科植物估计达 173 属 1240 种以上。其中约四分之一可供观赏，有些种类如兜兰、杓兰、独蒜兰、中国兰等，则已受到全世界的重视。本书与 1998 年出版的、以中文为主体的《中国兰花全书》为姊妹篇，但重点放在彩图上，力求收录有园艺价值的野生种类。全书共含有 403 种和 2 变种，归属于 117 属。全部种类均附有彩图。书中采用的彩色照片达 791 幅之多，其中不少还是首次发表的，例如小花杓兰 (*Cypripedium micranthum* Franch.)、白花兜兰 (*Paphiopedilum emersonii* Koopowitz et Cribb) 等。彩色照片中的大多数系作者在野外考察时拍摄的，特别是吉占和教授，他曾在华南与西南地区从事野外工作达 10 余年之久。书中每个种和变种均有中、英文的详细描述，力求将基于作者第一手资料的有用信息更多地包括在内。属与种均按英文字母顺序排列。此外还附有一幅中国地图，全部省份和自治区均有中文、英文和汉语拼音的对照，以满足中外读者的需要。

在这里，作者要特别感谢已故的唐进和汪发纛教授。两位教授是我们的学术导师，他们对东亚兰科植物的开拓性研究，为中国兰科生物学奠定了基础。

我们还要深情地感谢吴征镒教授、Peter H. Raven 博士和洪德元教授等三位中国科学院院士，以及中国科学院植物研究所副所长傅德志教授。他们曾给作者以极有价值的建议、支持、帮助和鼓励。我们同样要衷心地感谢 Gunnar Seidenfaden 先生不断地寄送有关泰国和中南半岛兰科研究的论文，以及 Phillip Cribb 博士盛情地赠送有关杓兰、兜兰、独蒜兰和其它兰科植物的专论性著作。他们高水平的论著对我们近年研究中国兰科植物是极有参考价值的。

在本书所采用的彩色照片中，有一部分是由下列各位提供的：森和男、李毓奇、昌建华、谢振荣、Phillip Cribb、桥本昭彦、高江云、刘林翰、刘初钿、周锦超、张宪春、方震东、邓朝义、张敖罗、包雪声、洪德元、傅立国、丁慎言、Gloria Barretto、C. J. Sheviak、卢思聪、张树仁、陶国达、宋书银、高天刚、张维柱和王印政（见附录名单）；在编写过程中还得到下列各位的支持和帮助：朱光华、刘芳媛、郎楷永、邬秉左、陈怡、陈云池、张宁、周庆、魏鲁明、陈正仁、梁燕、余大鹏和王国能。作者谨对上述各位朋友表示诚挚的谢意。

1998 年 1 月 28 日

AUTHORS' PREFACE

The orchid family is one of the largest groups of flowering plants with as many as 20000 species in nearly 700 genera. A large proportion of orchid species are epiphytic, growing on trees or rocks, of which the collections are far from complete and many remained poorly known about their habitats until recently. Orchid flowers are mostly bright and lustrous in colour and complex in structure. It is difficult to give a precise description based merely on herbarium materials. In recent years, the orchid industry developed rapidly and thousands of orchid species have been introduced into cultivation. It is an urgent matter to make a thorough investigation and study of wild orchids in order to put their resources to sustainable use, particularly in China where the orchid industry is already under way.

China is considered having over 1240 species of native orchids in nearly 173 genera. Approximately one fourth of them are of horticultural merit, and some have attracted worldwide attention, such as *paphiopedilums*, *cyripediums*, *pleiones* and *cymbidiums*. The present work is a companion volume of THE ORCHIDS OF CHINA, a mainly textual book published in 1998, and aims to provide colour illustrations of wild species of horticultural importance. Altogether 403 species and two varieties, belonging to 117 genera, are included in this book. There are 791 colour photographs provided for the taxa treated, with many published for the first time such as *Cyripedium micranthum* Franch. and *Paphiopedilum emersonii* Koopowitz et Cribb. Most of the photographs were taken by the authors themselves in the fields, especially Prof. Tsi Zhanhuo who has spent over ten years carrying out fieldwork in southern and southwestern China. A detailed description, both in Chinese and English, is given of each species and variety in the attempt to provide more useful information based mainly on the authors' firsthand materials. The genera and species are arranged alphabetically. A map of China is provided with all provinces and autonomous regions in Chinese, English and Chinese phonetic annotation in order to meet the needs of both Chinese and foreign readers.

The authors are especially indebted to the late Professors Tang Tsin and Wang Fatsuang, our former mentors and advisers, whose pioneering work on eastern Asian orchids laid a foundation for Chinese orchidology.

Our deep appreciation is extended to Prof. Wu Chengyih, Dr. Peter H. Raven, Prof. Hong Deyuan, members of the Chinese Academy of Sciences, and Prof. Fu Dezhi, deputy director of the Institute of Botany, the Chinese Academy of Sciences, for their valued advice, support, help and encouragement. We are also heartily grateful to Mr. Gunnar Seidenfaden for continuously sending us his treatments of Thai and Indochinese orchids, and to Dr. Phillip Cribb for kindly sending us his monographs on *Cyripedium*, *Paphiopedilum*, *Pleione* and other orchids. Their monumental works are of great benefit to our recent studies on Chinese orchids.

The authors wish to thank Kazuo Mori, Li Yuqi, Chang Jianhua, Xie Zhenrong, Phillip Cribb, Akihiko Hashimoto, Gao Jiangyun, Liu Linhan, Liu Chudian, Lawrence Chau, Zhang Xianchun, Fang Zhendong, Deng Chaoyi, Zhang Aoluo, Bao Xuesheng, Hong Deyuan, Fu Ligu, Ding Shenyan, Gloria Barretto, C. J. Cheviak, Lu Sicong, Zhang Shuren, Tao Guoda, Song Shuyin, Gao Tiangang, Zhang Weizhu and Wang Yinzheng for their kindly providing us excellent colour slides (see list). Kind help and support were also received from Zhu Guanghua (G. Zhu), Liu Fangyuan, Lang Kaiyong, Wu Bingzuo, Chen Yi, Chen Yunchi, Zhang Ning, Zhou Qing, Wei Luming, Chen Zhengren, Liang Yan, Yu Dapeng and Wang Guoneng, to whom we are much obliged.

28 January 1999

本书中绝大多数彩照均为作者所拍摄，但部分照片由下列各位提供：

In this book the majority of the colour photographs are by the authors but others are from the following collections:

森和男: *Amitostigma monanthum* (1), *A. physoceras* (1), *A. simplex* (1), *Cypripedium bardolphianum* (1), *C. flavum* (1), *C. franchetii* (1), *C. guttatum* (1), *C. macranthum* (1), *C. shanxiense* (1), *C. smithii* (2), *C. tibeticum* (1), *C. yunnanense* (1), *Gymnadenia orchidis* (2), *Habenaria delavayi* (1), *H. mairei* (1), *Herminium ophioglossoides* (1), *Orchis chusua* (1), *O. wardii* (1), *Oreorchis erythrochrysea* (1), *Peristylus coeloceras* (1) and *Platanthera chlorantha* (1); 李毓奇: *Aceratorchis tschiliensis* (1), *Bletilla ochracea* (2), *B. striata* (1), *Calanthe arcuata* (1), *C. brevicornu* (1), *Cypripedium fargesii* (1), *C. farreri* (1), *C. flavum* (1), *C. micranthum* (1), *C. palangshanense* (2), *Gastrochilus formosanus* (1), *Habenaria davidii* (1), *Orchis limprichtii* (2), and *Sedirea subparishii* (2); 昌建华: *Callostylis rigida* (1), *Cymbidium dayanum* (1), *C. lowianum* (1), *Dendrobium bellatulum* (1), *D. brymerianum* (1), *D. chrysotoxum* (1), *D. jenkinsii* (2), *D. thysiflorum* (1), *D. trigonopus* (1), *Polystachya concreta* (1), *Vanda brunnea* (1) and *V. coerulescens* (1); 谢振荣: *Corybas taiwanensis* (2), *Cypripedium formosanum* (2), *C. segawai* (2), *Dendrobium miyakei* (1), *Habenaria longidenticulata* (1), *H. polytricha* (1), *Haraella retrocalla* (1), *Malaxia latifolia* (1) and *Orchis taiwanensis* (1); Phillip Cribb: *Amitostigma faberi* (1), *Cheirostylis chinensis* (2), *Epipactis mairei* (1), *Geodorum densiflorum* (1), *Oreorchis indica* (1), *O. nana* (1) and *Pogonia yunnanensis* (1); 桥本昭彦: *Bulbophyllum pectinatum* var. *transarisanense* (1), *B. retusiusculum* (1), *Collabium formosanum* (1), *Haraella retrocalla* (1) and *Tuberolabium kotoense* (1); 高江云: *Flickingeria calocephala* (1), *F. tricarinata* (1), *Gooderya procera* (1), *Papilionanthe teres* (1) and *Pholidota articulata* (1); 刘林翰: *Bletilla striata* (1), *Calanthe alismaefolia* (1), *Galeola faberi* (1) and *Tainia dunnii* (1); 刘初翎: *Lecanorchis japonica* (1), *Pogonia japonica* (1) and *Yoania japonica* (1); 周锦超(Lawrence Chau): *Eria sinica* (1) and *Ornithochilus difformis* (1); 张宪春: *Coelogyne fimbriata* (1) and *Paphiopedilum purpuratum* (1); 方震东: *Cypripedium margaritaceum* (1) and *Gymnadenia orchidis* (1); 邓朝义: *Paphiopedilum henryanum* (1) and *P. villosum* (1); 张敖罗: *Pleione forrestii* (1) and *Thunia alba* (1); 包雪声: *Dendrobium officinale* (2); 洪德元: *Cypripedium henryi* (1); 傅立国: *Cleisostoma scolopendrifolium* (1); 丁慎言: *Holcoglossum subulifolium* (1); Gloria Barretto: *Disperis nantauensis* (1); C. J. Cheviak: *Neofinetia richardsiana* (1); 卢思聪: *Cymbidium faberi* (1); 张树仁: *Neottia megalochila* (1); 陶国达: *Brachycorythis henryi* (1); 宋书银: *Collabium formosanum* (1); 高天刚: *Phaius mishmensis* (1); 张维柱: *Esmeralda bella* (1); 王印政: *Renanthera coccinea* (1).

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墨脱虾脊兰 <i>Calanthe metoensis</i> Tsi et Lang	(61)
戟形虾脊兰 <i>Calanthe nipponica</i> Makino	(62)
镰萼虾脊兰 <i>Calanthe puberula</i> Lindl.	(63)
大黄花虾脊兰 <i>Calanthe sieboldii</i> Decne.	(64)
长距虾脊兰 <i>Calanthe sylvatica</i> (Thou.) Lindl.	(65)
三棱虾脊兰 <i>Calanthe tricarinata</i> Lindl.	(66)
三褶虾脊兰 <i>Calanthe triplicata</i> (Willem.) Ames	(67)
美柱兰 <i>Callostylis rigida</i> Bl.	(68)
头蕊兰 <i>Cephalanthera longifolia</i> (L.) Fritsch	(69)
铃花黄兰 <i>Cephalantheropsis calanthoides</i> (Ames) T. S. Liu et H. J. Su	(70)
叉枝牛角兰 <i>Ceratostylis himalaica</i> Hook. f.	(71)
独花兰 <i>Changnienia amoena</i> S. S. Chien	(72)
中华叉柱兰 <i>Cheirostylis chinensis</i> Rolfe	(73)
异型兰 <i>Chiloschista yunnanensis</i> Schltr.	(74)
美花隔距兰 <i>Cleisostoma birmanicum</i> (Schltr.) Garay	(75)
长叶隔距兰 <i>Cleisostoma fuerstenbergianum</i> Kraenzl.	(76)
短茎隔距兰 <i>Cleisostoma parishii</i> (Hook. f.) Garay	(77)
尖喙隔距兰 <i>Cleisostoma rostratum</i> (Lodd.) Seidenf. ex Averyanov	(78)
蜈蚣兰 <i>Cleisostoma scolopendrifolium</i> (Makino) Garay	(79)
红花隔距兰 <i>Cleisostoma williamsonii</i> (Rehb. f.) Garay	(80)
滇西贝母兰 <i>Coelogyne calcicola</i> A. F. G. Kerr	(81)

眼斑贝母兰 <i>Coelogyne corymbosa</i> Lindl.	(82)
流苏贝母兰 <i>Coelogyne fimbriata</i> Lindl.	(83)
栗鳞贝母兰 <i>Coelogyne flaccida</i> Lindl.	(84)
白花贝母兰 <i>Coelogyne leucantha</i> W. W. Smith	(85)
卵叶贝母兰 <i>Coelogyne occultata</i> Hook. f.	(86)
黄绿贝母兰 <i>Coelogyne prolifera</i> Lindl.	(87)
撕裂贝母兰 <i>Coelogyne sanderae</i> Kraenzl.	(88)
疏茎贝母兰 <i>Coelogyne suaveolens</i> (Lindl.) Hook. f.	(89)
禾叶贝母兰 <i>Coelogyne viscosa</i> Rehb. f.	(90)
台湾吻兰 <i>Collabium formosanum</i> Hayata	(91)
台湾铠兰 <i>Corybas taiwanensis</i> T. P. Lin et S. Y. Leu	(92)
管花兰 <i>Corymborkis veratrifolia</i> Bl.	(93)
杜鹃兰 <i>Cremastra appendiculata</i> (D. Don) Makino	(94)
宿苞兰 <i>Cryptochilus luteus</i> Lindl.	(95)
纹瓣兰 <i>Cymbidium aloifolium</i> (L.) Sw.	(96)
硬叶兰 <i>Cymbidium bicolor</i> Lindl. subsp. <i>obtusum</i> Du Puy et Cribb	(97)
莎叶兰 <i>Cymbidium cyperifolium</i> Wall. ex Lindl.	(98)
冬凤兰 <i>Cymbidium dayanum</i> Rehb. f.	(99)
独占春 <i>Cymbidium eburneum</i> Lindl.	(100)
莎草兰 <i>Cymbidium elegans</i> Lindl.	(101)
建兰 <i>Cymbidium ensifolium</i> (L.) Sw.	(102)
长叶兰 <i>Cymbidium erythraeum</i> Lindl.	(103)
蕙兰 <i>Cymbidium faberi</i> Rolfe	(104)
多花兰 <i>Cymbidium floribundum</i> Lindl.	(105)
春兰 <i>Cymbidium goeringii</i> (Rehb. f.) Rehb. f.	(106)
春剑 (变种) <i>Cymbidium goeringii</i> (Rehb. f.) Rehb. f. var. <i>longibracteata</i> (Y. S. Wu et S. C. Chen) Y. S. Wu et S. C. Chen	(108)
虎头兰 <i>Cymbidium hookerianum</i> Rehb. f.	(110)
美花兰 <i>Cymbidium insigne</i> Rolfe	(111)
黄蝉兰 <i>Cymbidium iridioides</i> D. Don	(112)
寒兰 <i>Cymbidium kanran</i> Makino	(113)
兔耳兰 <i>Cymbidium lancifolium</i> Hook.	(114)
碧玉兰 <i>Cymbidium lowianum</i> (Rehb. f.) Rehb. f.	(116)
大雪兰 <i>Cymbidium mastersii</i> Griff. ex Lindl.	(117)
珍珠矮 <i>Cymbidium nanulum</i> Y. S. Wu et S. C. Chen	(118)
墨兰 <i>Cymbidium sinense</i> (Jackson ex Andr.) Willd.	(119)
斑舌兰 <i>Cymbidium tigrinum</i> Par. ex Hook.	(120)
西藏虎头兰 <i>Cymbidium tracyanum</i> L. Castle	(121)
文山红柱兰 <i>Cymbidium wenshanense</i> Y. S. Wu et F. Y. Liu	(122)
无苞杓兰 <i>Cypripedium bardolphianum</i> W. W. Smith et Farrer	(123)
白唇杓兰 <i>Cypripedium cordigerum</i> D. Don	(124)
对叶杓兰 <i>Cypripedium debile</i> Rehb. f.	(125)
雅致杓兰 <i>Cypripedium elegans</i> Rehb. f.	(126)
毛瓣杓兰 <i>Cypripedium fargesii</i> Franch.	(128)
华西杓兰 <i>Cypripedium farreri</i> W. W. Smith	(129)
黄花杓兰 <i>Cypripedium flavum</i> P. F. Hunt et Summerh.	(130)
台湾杓兰 <i>Cypripedium formosanum</i> Hayata	(132)

毛杓兰 <i>Cypripedium franchetii</i> E. H. Wilson	(133)
紫点杓兰 <i>Cypripedium guttatum</i> Sw.	(134)
绿花杓兰 <i>Cypripedium henryi</i> Rolfe	(136)
扇脉杓兰 <i>Cypripedium japonicum</i> Thunb. ex A. Murray	(137)
丽江杓兰 <i>Cypripedium lichiangense</i> S. C. Chen et Cribb	(138)
大花杓兰 <i>Cypripedium macranthum</i> Sw.	(139)
斑叶杓兰 <i>Cypripedium margaritaceum</i> Franch.	(140)
小花杓兰 <i>Cypripedium micranthum</i> Franch.	(141)
巴郎山杓兰 <i>Cypripedium palangshanense</i> Tang et Wang	(142)
离萼杓兰 <i>Cypripedium plectrochilum</i> Franch.	(143)
宝岛杓兰 <i>Cypripedium segawai</i> Masamune	(144)
山西杓兰 <i>Cypripedium shanxiense</i> S. C. Chen	(145)
褐花杓兰 <i>Cypripedium smithii</i> Schltr.	(146)
西藏杓兰 <i>Cypripedium tibeticum</i> King ex Rolfe	(147)
东北杓兰 <i>Cypripedium</i> × <i>ventricosum</i> Sw.	(148)
云南杓兰 <i>Cypripedium yunnanense</i> Franch.	(149)
钩状石斛 <i>Dendrobium aduncum</i> Wall. ex Lindl.	(150)
兜唇石斛 <i>Dendrobium aphyllum</i> (Roxb.) C. E. C. Fisch.	(151)
矮石斛 <i>Dendrobium bellatulum</i> Rolfe	(152)
长苏石斛 <i>Dendrobium brymerianum</i> Rehb. f.	(153)
短棒石斛 <i>Dendrobium capillipes</i> Rehb. f.	(154)
翅萼石斛 <i>Dendrobium cariniferum</i> Rehb. f.	(155)
喉红石斛 <i>Dendrobium christyanum</i> Rehb. f.	(156)
束花石斛 <i>Dendrobium chrysanthum</i> Wall. ex Lindl.	(157)
鼓槌石斛 <i>Dendrobium chrysotoxum</i> Lindl.	(158)
晶帽石斛 <i>Dendrobium crystallinum</i> Rehb. f.	(159)
叠鞘石斛 <i>Dendrobium denneanum</i> Kerr	(160)
密花石斛 <i>Dendrobium densiflorum</i> Lindl.	(161)
齿瓣石斛 <i>Dendrobium devonianum</i> Paxt.	(162)
串珠石斛 <i>Dendrobium falconeri</i> Hook.	(163)
流苏石斛 <i>Dendrobium fimbriatum</i> Hook.	(164)
棒节石斛 <i>Dendrobium findlayanum</i> Par. et Rehb. f.	(165)
曲轴石斛 <i>Dendrobium gibsonii</i> Lindl.	(166)
杯鞘石斛 <i>Dendrobium gratiosissimum</i> Rehb. f.	(167)
滇桂石斛 <i>Dendrobium guangxiense</i> S. J. Cheng et C. Z. Tang	(168)
细叶石斛 <i>Dendrobium hancockii</i> Rolfe	(169)
苏瓣石斛 <i>Dendrobium harveyanum</i> Rehb. f.	(170)
疏花石斛 <i>Dendrobium henryi</i> Schltr.	(171)
尖刀唇石斛 <i>Dendrobium heterocarpum</i> Wall. ex Lindl.	(172)
高山石斛 <i>Dendrobium infundibulum</i> Lindl.	(173)
小黄花石斛 <i>Dendrobium jenkinsii</i> Wall. ex Lindl.	(174)
聚石斛 <i>Dendrobium lindleyi</i> Steud.	(175)
喇叭唇石斛 <i>Dendrobium lituiflorum</i> Lindl.	(176)
美花石斛 <i>Dendrobium loddigesii</i> Rolfe	(177)
长距石斛 <i>Dendrobium longicornu</i> Wall. ex Lindl.	(178)
勐海石斛 <i>Dendrobium minutiflorum</i> S. C. Chen et Tsi	(179)
红花石斛 <i>Dendrobium miyakei</i> Schltr.	(180)

细茎石斛	<i>Dendrobium moniliforme</i> (L.) Sw.	(181)
杓唇石斛	<i>Dendrobium moschatum</i> (Buch.-Ham.) Sw.	(182)
石斛	<i>Dendrobium nobile</i> Lindl.	(183)
铁皮石斛	<i>Dendrobium officinale</i> K. Kimura et Migo	(184)
肿节石斛	<i>Dendrobium pendulum</i> Roxb.	(185)
报春石斛	<i>Dendrobium primulinum</i> Lindl.	(186)
竹枝石斛	<i>Dendrobium salaccense</i> (Bl.) Lindl.	(187)
叉唇石斛	<i>Dendrobium stuposum</i> Lindl.	(188)
具槽石斛	<i>Dendrobium sulcatum</i> Lindl.	(189)
球花石斛	<i>Dendrobium thyrsoflorum</i> Rehb. f.	(190)
翅梗石斛	<i>Dendrobium trigonopus</i> Rehb. f.	(191)
大苞鞘石斛	<i>Dendrobium wardianum</i> Warner	(192)
黑毛石斛	<i>Dendrobium williamsonii</i> Day et Rehb. f.	(193)
香港双袋兰	<i>Disperis nantauensis</i> S. Y. Hu	(194)
五唇兰	<i>Doritis pulcherrima</i> Lindl.	(195)
宽叶厚唇兰	<i>Epigeneium amplum</i> (Lindl.) Summerh.	(196)
小花火烧兰	<i>Epipactis helleborine</i> (L.) Crantz.	(197)
大叶火烧兰	<i>Epipactis mairei</i> Schltr.	(198)
钝叶毛兰	<i>Eria acervata</i> Lindl.	(199)
粗茎毛兰	<i>Eria amica</i> Rehb. f.	(200)
竹叶毛兰	<i>Eria bambusifolia</i> Lindl.	(201)
匍茎毛兰	<i>Eria clausa</i> King et Pantl.	(202)
半柱毛兰	<i>Eria corneri</i> Rehb. f.	(203)
足茎毛兰	<i>Eria coronaria</i> (Lindl.) Rehb. f.	(204)
厚叶毛兰	<i>Eria crassifolia</i> Tsi et S. C. Chen	(205)
瓜子毛兰	<i>Eria dasyphylla</i> Par. et Rehb. f.	(206)
香花毛兰	<i>Eria javanica</i> (Sw.) Bl.	(207)
长苞毛兰	<i>Eria obvia</i> W. W. Smith	(208)
竹枝毛兰	<i>Eria paniculata</i> Lindl.	(209)
指叶毛兰	<i>Eria pannea</i> Lindl.	(210)
高山毛兰	<i>Eria reptans</i> (Franch. et Sav.) Makino	(211)
菱唇毛兰	<i>Eria rhombodalis</i> Tang et Wang	(212)
小毛兰	<i>Eria sinica</i> (Lindl.) Lindl.	(213)
密花毛兰	<i>Eria spicata</i> (D. Don) Hand.-Mazz.	(214)
鹅白毛兰	<i>Eria stricta</i> Lindl.	(215)
石豆毛兰	<i>Eria thao</i> Gagnep.	(216)
黄绒毛兰	<i>Eria tomentosa</i> (Koen.) Hook. f.	(217)
毛梗兰	<i>Eriodes barbata</i> (Lindl.) Rolfe	(218)
钳喙兰	<i>Erythrodes blumei</i> (Lindl.) Schltr.	(219)
口盖花蜘蛛兰	<i>Esmeralda bella</i> Rehb. f.	(220)
美冠兰	<i>Eulophia graminea</i> Lindl.	(221)
紫花美冠兰	<i>Eulophia spectabilis</i> (Dennst.) Suresh	(222)
滇金石斛	<i>Flickingeria alboburpurea</i> Seidenf.	(223)
红头金石斛	<i>Flickingeria calocephala</i> Tsi et S. C. Chen	(224)
三脊金石斛	<i>Flickingeria tricarinata</i> Tsi et S. C. Chen	(225)
山珊瑚	<i>Galeola faberi</i> Rolfe	(226)
毛萼山珊瑚	<i>Galeola lindleyana</i> (Hook. f. et Thoms.) Rehb. f.	(227)

大花盆距兰 <i>Gastrochilus bellinus</i> (Rehb. f.) Kuntze	(228)
盆距兰 <i>Gastrochilus calceolaris</i> (Buch.-Ham. ex Smith) D. Don	(229)
台湾盆距兰 <i>Gastrochilus formosanus</i> (Hayata) Hayata	(230)
红斑盆距兰 <i>Gastrochilus fuscopunctatus</i> (Hayata) Hayata	(231)
短茎盆距兰 <i>Gastrochilus obliquus</i> (Lindl.) Kuntze	(232)
滇南盆距兰 <i>Gastrochilus platycalcaratus</i> (Rolfe) Schltr.	(233)
天麻 <i>Gastrodia elata</i> Bl.	(234)
勐海天麻 <i>Gastrodia menghaiensis</i> Tsi et S. C. Chen	(235)
大花地宝兰 <i>Geodorum attenuatum</i> Griff.	(236)
地宝兰 <i>Geodorum densiflorum</i> (Lam.) Schltr.	(237)
多花地宝兰 <i>Geodorum recurvum</i> (Roxb.) Alston	(238)
波密斑叶兰 <i>Goodyera bomiensis</i> Lang	(239)
莲座叶斑叶兰 <i>Goodyera brachystegia</i> Hand.-Mazz.	(240)
多叶斑叶兰 <i>Goodyera foliosa</i> (Lindl.) Benth. ex C. B. Clarke	(241)
烟色斑叶兰 <i>Goodyera fumata</i> Thw.	(242)
高斑叶兰 <i>Goodyera procera</i> (Ker-Gawl.) Hook.	(243)
小斑叶兰 <i>Goodyera repens</i> (L.) R. Br.	(244)
手参 <i>Gymnadenia conopsea</i> (L.) R. Br.	(245)
西南手参 <i>Gymnadenia orchidis</i> Lindl.	(246)
凸孔坡参 <i>Habenaria acuifera</i> Wall. ex Lindl.	(247)
长距玉凤花 <i>Habenaria davidii</i> Franch.	(248)
厚瓣玉凤花 <i>Habenaria delavayi</i> Finet	(249)
鹅毛玉凤花 <i>Habenaria dentata</i> (Sw.) Schltr.	(250)
粉叶玉凤花 <i>Habenaria glaucifolia</i> Bur. et Franch.	(251)
冠毛玉凤花 <i>Habenaria longidenticulata</i> Hayata	(252)
棒距玉凤花 <i>Habenaria mairei</i> Schltr.	(253)
裂瓣玉凤花 <i>Habenaria polytricha</i> Rolfe	(254)
紫斑玉凤花 <i>Habenaria purpureo-punctata</i> Lang	(255)
香兰 <i>Haraella retrocalla</i> (Hayata) Kudo	(256)
舌喙兰 <i>Hemipilia cruciata</i> Finet	(257)
扇脉舌喙兰 <i>Hemipilia flabellata</i> Bur. et Franch.	(258)
裂唇舌喙兰 <i>Hemipilia henryi</i> Rolfe	(259)
广西舌喙兰 <i>Hemipilia kwangsiensis</i> Tang et Wang ex Lang	(260)
短距舌喙兰 <i>Hemipilia limprichtii</i> Schltr.	(261)
五角唇舌喙兰 <i>Hemipilia quinquangularis</i> Tang et Wang	(262)
叉唇角盘兰 <i>Herminium lanceum</i> (Thunb. ex Sw.) Vuijk	(263)
角盘兰 <i>Herminium monorchis</i> (L.) R. Br.	(264)
长瓣角盘兰 <i>Herminium ophioglossoides</i> Schltr.	(265)
大根槽舌兰 <i>Holcoglossum amesianum</i> (Rehb. f.) Christenson	(266)
短距槽舌兰 <i>Holcoglossum flavescens</i> (Schltr.) Tsi	(267)
管叶槽舌兰 <i>Holcoglossum kimballianum</i> (Rehb. f.) Garay	(268)
白唇槽舌兰 <i>Holcoglossum subulifolium</i> (Rehb. f.) Christenson	(269)
湿唇兰 <i>Hygrochilus parishii</i> (Rehb. f.) Pfitz.	(270)
瘦房兰 <i>Ischnogyne mandarinorum</i> (Kraenzl.) Schltr.	(271)
尖囊兰 <i>Kingidium braceanum</i> (Hook. f.) Seidenf.	(272)
盂兰 <i>Lecanorchis japonica</i> Bl.	(273)
镰翅羊耳蒜 <i>Liparis bootanensis</i> Griff.	(274)

二褶羊耳蒜 <i>Liparis cathcartii</i> Hook. f.	(275)
平卧羊耳蒜 <i>Liparis chapaensis</i> Gagnep.	(276)
大花羊耳蒜 <i>Liparis distans</i> C. B. Clarke	(277)
扁球羊耳蒜 <i>Liparis elliptica</i> Wight	(278)
长唇羊耳蒜 <i>Liparis pauliana</i> Hand.-Mazz.	(279)
蕊丝羊耳蒜 <i>Liparis resupinata</i> Ridl.	(280)
长茎羊耳蒜 <i>Liparis viridiflora</i> (Bl.) Lindl.	(281)
对叶兰 <i>Listera puberula</i> Maxim.	(282)
血叶兰 (金线莲) <i>Ludisia discolor</i> (Ker-Gawl.) A. Rich.	(283)
小花钗子股 <i>Luisia brachystachys</i> (Lindl.) Bl.	(284)
纤叶钗子股 <i>Luisia hancockii</i> Rolfe	(285)
大花钗子股 <i>Luisia magniflora</i> Tsi et S. C. Chen	(286)
钗子股 <i>Luisia morsei</i> Rolfe	(287)
叉唇钗子股 <i>Luisia teres</i> (Thunb. ex A. Murray) Bl.	(288)
浅裂沼兰 <i>Malaxis acuminata</i> D. Don	(289)
二耳沼兰 <i>Malaxis biaurita</i> (Lindl.) Kuntze	(290)
阔叶沼兰 <i>Malaxis latifolia</i> Smith	(291)
沼兰 <i>Malaxis monophyllos</i> (L.) Sw.	(292)
风兰 <i>Neofinetia falcata</i> (Thunb. ex A. Murray) Hu	(293)
短距风兰 <i>Neofinetia richardsiana</i> Christenson	(294)
新型兰 <i>Neogyna gardneriana</i> (Lindl.) Rchb. f.	(295)
大花鸟巢兰 <i>Neottia megalochila</i> S. C. Chen	(296)
广布芋兰 <i>Nervilia aragoana</i> Gaud.	(297)
毛叶芋兰 <i>Nervilia plicata</i> (Andr.) Schltr.	(297)
象鼻兰 <i>Nothodoritis zhejiangensis</i> Tsi	(298)
显脉鸢尾兰 <i>Oberonia acaulis</i> Griff.	(299)
狭叶鸢尾兰 <i>Oberonia caulescens</i> Lindl.	(300)
条裂鸢尾兰 <i>Oberonia jenkinsiana</i> Griff. ex Lindl.	(301)
短距红门兰 <i>Orchis brevicarata</i> (Finet) Schltr.	(302)
广布红门兰 <i>Orchis chusua</i> D. Don	(303)
华西红门兰 <i>Orchis limprichtii</i> Schltr.	(304)
台湾红门兰 <i>Orchis taiwanensis</i> Fukuyama	(305)
斑唇红门兰 <i>Orchis wardii</i> W. W. Smith	(306)
短梗山兰 <i>Oreorchis erythrochrysea</i> Hand.-Mazz.	(307)
长叶山兰 <i>Oreorchis fargesii</i> Finet	(308)
囊唇山兰 <i>Oreorchis indica</i> (Lindl.) Hook. f.	(309)
硬叶山兰 <i>Oreorchis nana</i> Schltr.	(310)
山兰 <i>Oreorchis patens</i> (Lindl.) Lindl.	(311)
羽唇兰 <i>Ornithochilus difformis</i> (Lindl.) Schltr.	(312)
狭叶耳唇兰 <i>Otochilus fuscus</i> Lindl.	(313)
长唇耳唇兰 <i>Otochilus lancilabius</i> Seidenf.	(314)
耳唇兰 <i>Otochilus porrectus</i> Lindl.	(315)
粉口兰 <i>Pachystoma pubescens</i> Bl.	(316)
平卧曲唇兰 <i>Panisea cavaleri</i> Schltr.	(317)
单花曲唇兰 <i>Panisea uniflora</i> (Lindl.) Lindl.	(318)
云南曲唇兰 <i>Panisea yunnanensis</i> S. C. Chen et Tsi	(320)
卷萼兜兰 <i>Paphiopedilum appletonianum</i> (Gower) Rolfe	(321)

杏黄兜兰 <i>Paphiopedilum armeniacum</i> S. C. Chen et F. Y. Liu	(322)
小叶兜兰 <i>Paphiopedilum barbigerum</i> Tang et Wang	(324)
巨瓣兜兰 <i>Paphiopedilum bellatulum</i> (Rehb. f.) Stein	(326)
同色兜兰 <i>Paphiopedilum concolor</i> (Lindl.) Pfitz.	(327)
长瓣兜兰 <i>Paphiopedilum dianthum</i> Tang et Wang	(328)
白花兜兰 <i>Paphiopedilum emersonii</i> Koopowitz et Cribb	(330)
亨利兜兰 <i>Paphiopedilum henryanum</i> Braem	(331)
带叶兜兰 <i>Paphiopedilum hirsutissimum</i> (Lindl. ex Hook.) Stein	(332)
波瓣兜兰 <i>Paphiopedilum insigne</i> (Wall. ex Lindl.) Pfitz.	(333)
麻栗坡兜兰 <i>Paphiopedilum malipoense</i> S. C. Chen et Tsi	(334)
虎斑兜兰 <i>Paphiopedilum markianum</i> Fowlie	(335)
硬叶兜兰 <i>Paphiopedilum micranthum</i> Tang et Wang	(336)
紫纹兜兰 <i>Paphiopedilum purpuratum</i> (Lindl.) Stein	(338)
紫毛兜兰 <i>Paphiopedilum villosum</i> (Lindl.) Stein	(339)
彩云兜兰 <i>Paphiopedilum wardii</i> Summerh.	(340)
凤蝶兰 <i>Papilionanthe teres</i> (Roxb.) Schltr.	(341)
尾丝钻柱兰 <i>Pelatantheria bicuspidata</i> (Rolfe ex Downie) Tang et Wang	(342)
钻柱兰 <i>Pelatantheria rivesii</i> (Guill.) Tang et Wang	(343)
凸孔阔蕊兰 <i>Peristylus coeloceras</i> Finet	(344)
阔蕊兰 <i>Peristylus goodyeroides</i> (D. Don) Lindl.	(345)
南方阔蕊兰 <i>Peristylus tentaculatus</i> (Lindl.) J. J. Smith	(346)
仙笔鹤顶兰 <i>Phaius columnaris</i> C. Z. Tang et S. J. Cheng	(347)
黄花鹤顶兰 <i>Phaius flavus</i> (Bl.) Lindl.	(348)
大花鹤顶兰 <i>Phaius magniflorus</i> Tsi et S. C. Chen	(349)
紫花鹤顶兰 <i>Phaius mishmensis</i> (Lindl. et Paxt.) Rehb. f.	(350)
鹤顶兰 <i>Phaius tankervilleae</i> (Banks ex I. Herit.) Bl.	(351)
版纳蝴蝶兰 <i>Phalaenopsis mannii</i> Rehb. f.	(352)
华西蝴蝶兰 <i>Phalaenopsis wilsonii</i> Rolfe	(353)
节茎石仙桃 <i>Pholidota articulata</i> Lindl.	(354)
石仙桃 <i>Pholidota chinensis</i> Lindl.	(355)
宿苞石仙桃 <i>Pholidota imbricata</i> Hook.	(356)
单叶石仙桃 <i>Pholidota leveilleana</i> Schltr.	(357)
文山石仙桃 <i>Pholidota wenshanica</i> S. C. Chen et Tsi	(358)
云南石仙桃 <i>Pholidota yunnanensis</i> Rolfe	(359)
二叶舌唇兰 <i>Platanthera chlorantha</i> Cust. ex Rehb.	(360)
舌唇兰 <i>Platanthera japonica</i> (Thunb. ex A. Murray) Lindl.	(361)
筒距舌唇兰 <i>Platanthera tipuloides</i> (L. f.) Lindl.	(362)
独蒜兰 <i>Pleione bulbocodioides</i> (Franch.) Rolfe	(363)
黄花独蒜兰 <i>Pleione forrestii</i> Schltr.	(364)
毛唇独蒜兰 <i>Pleione hookeriana</i> (Lindl.) B. S. Williams	(365)
秋花独蒜兰 <i>Pleione maculata</i> (Lindl.) Lindl.	(366)
疣鞘独蒜兰 <i>Pleione praecox</i> (Smith) D. Don	(367)
云南独蒜兰 <i>Pleione yunnanensis</i> (Rolfe) Rolfe	(368)
柄唇兰 <i>Podochilus khasianus</i> Hook. f.	(369)
朱兰 <i>Pogonia japonica</i> Rehb. f.	(370)
云南朱兰 <i>Pogonia yunnanensis</i> Finet	(371)
多穗兰 <i>Polystachya concreta</i> (Jacq.) Garay et Sweet	(372)

鹿角兰 <i>Pomatocalpa spicatum</i> Breda	(373)
双臂长足兰 <i>Pteroceras leopardinum</i> (Par. et Rchb. f.) Seidenf. et Smitin.	(374)
火焰兰 <i>Renanthera coccinea</i> Lour.	(375)
云南火焰兰 <i>Renanthera imschootiana</i> Rolfe	(376)
海南钻喙兰 <i>Rhynchosstylis gigantea</i> (Lindl.) Ridl.	(377)
钻喙兰 <i>Rhynchosstylis retusa</i> (L.) Bl.	(378)
小叶寄树兰 <i>Robiquetia succica</i> (Lindl.) Seidenf.	(379)
大喙兰 <i>Sarcoglyphis smithianus</i> (A. F. G. Kerr) Seidenf.	(380)
缘毛鸟足兰 <i>Satyrium ciliatum</i> Lindl.	(381)
云南鸟足兰 <i>Satyrium yunnanense</i> Rolfe	(382)
匙唇兰 <i>Schoenorchis gemmata</i> (Lindl.) J. J. Smith	(383)
短茎萼脊兰 <i>Sedirea subparishii</i> (Tsi) Christenson	(384)
盖喉兰 <i>Smitinandia micrantha</i> (Lindl.) Holttum	(385)
苞舌兰 <i>Spathoglottis pubescens</i> Lindl.	(386)
绶草 <i>Spiranthes sinensis</i> (Pers.) Ames	(387)
掌唇兰 <i>Staurochilus dawsonianus</i> (Rchb. f.) Schltr.	(388)
小掌唇兰 <i>Staurochilus loratus</i> (Rolfe ex Downie) Seidenf.	(389)
黄花大苞兰 <i>Sunipia andersonii</i> (King et Pantl.) P. F. Hunt	(390)
二色大苞兰 <i>Sunipia bicolor</i> Lindl.	(391)
大苞兰 <i>Sunipia scariosa</i> Lindl.	(392)
带叶兰 <i>Taeniophyllum glandulosum</i> Bl.	(393)
兜唇带叶兰 <i>Taeniophyllum obtusum</i> Bl.	(394)
狭叶带唇兰 <i>Tainia angustifolia</i> (Lindl.) Benth. et Hook. f.	(395)
带唇兰 <i>Tainia dunnii</i> Rolfe	(396)
矮柱兰 <i>Thelasis pygmaea</i> (Griff.) Bl.	(397)
白点兰 <i>Thrixspermum centipeda</i> Lour.	(398)
筭兰 <i>Thunia alba</i> (Lindl.) Rchb. f.	(399)
管唇兰 <i>Tuberolabium kotoense</i> Yamamoto	(400)
叉喙兰 <i>Uncifera acuminata</i> Lindl.	(401)
垂头万代兰 <i>Vanda alpina</i> Lindl.	(402)
白柱万代兰 <i>Vanda brunnea</i> Rchb. f.	(403)
大花万代兰 <i>Vanda coerulea</i> Griff. ex Lindl.	(404)
小花万代兰 <i>Vanda coerulescens</i> Griff.	(405)
叉唇万代兰 <i>Vanda cristata</i> Lindl.	(406)
矮万代兰 <i>Vanda pumila</i> Hook. f.	(407)
纯色万代兰 <i>Vanda subconcolor</i> Tang et Wang	(408)
拟万代兰 <i>Vandopsis gigantea</i> (Lindl.) Pfitz.	(409)
白花拟万代兰 <i>Vandopsis undulata</i> (Lindl.) J. J. Smith	(410)
大香荚兰 <i>Vanilla siamensis</i> Rolfe ex Downie	(411)
宽距兰 <i>Yoania japonica</i> Maxim.	(412)
宽叶线柱兰 <i>Zeuxine affinis</i> (Lindl.) Benth. ex Hook. f.	(413)
美脉线柱兰 <i>Zeuxine nervosa</i> (Wall. ex Lindl.) Benth. ex C. B. Clarke	(414)
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短序脆兰

Acampe papillosa (Lindl.) Lindl.

附生植物。茎伸长，分枝，攀援，较纤细。叶矩圆形至狭矩圆形，革质，长7—15厘米，宽1—2厘米，先端微缺。花序侧生，短，密生多花；花直径1—1.5厘米，萼片和花瓣黄色并具褐色斑点，唇瓣白色并在基部具淡紫色斑点；萼片矩圆形，长5—8毫米，宽2—2.5毫米；花瓣狭矩圆形，长5—8毫米，宽1.5—2毫米；唇瓣长4—5毫米，基部近囊状，下半部被短柔毛；前部裂片卵形，长3.5—4毫米，宽2—3毫米，边缘啮蚀状，上面具密集的乳头状突起；距圆筒形，长2—2.5毫米，宽1.5—2毫米，末端钝。

花期：11月。生境：生于林中或林缘的树干上；海拔700米。分布：海南和云南西部；尼泊尔、不丹、锡金、印度、缅甸、越南、老挝和泰国也有。

An epiphytic plant. Stem elongate, branched, scandent, rather slender. Leaves oblong to narrowly oblong, coriaceous, 7—15cm long, 1—2cm broad, slightly emarginate at apex. Inflorescences lateral, short, densely many-flowered; flowers



1—1.5cm across; sepals and petals yellow with brown spots; lip white with purplish spots at the base; sepals oblong, 5—8mm long, 2—2.5mm broad; petals narrowly oblong, 5—8mm long, 1.5—2mm broad; lip 4—5mm long, subsaccate at base, pubescent in lower half; apical lobe ovate, 3.5—4mm long, 2—3mm broad, erose-margined, densely papillose above; spur cylindrical-oblong, 2—2.5mm long, 1.5—2mm broad, obtuse at the tip.

Flowering period: November. Habitat: on tree trunks in forests or on the edge of forests; alt. 700m. Distribution: Hainan and W Yunnan; also Nepal, Bhutan, Sikkim, India, Myanmar, Vietnam, Laos and Thailand.