

1998

中国科学院

统计年鉴

STATISTICAL YEARBOOK
OF THE CHINESE ACADEMY OF SCIENCES

科学出版社

中国科学院统计年鉴

STATISTICAL YEARBOOK OF
THE CHINESE ACADEMY OF SCIENCES

1998

中国科学院计划财务局 编
Bureau of Planning and Finance
Chinese Academy of Sciences

科学出版社

Science Press

1998

中国科学院统计年鉴
STATISTICAL YEARBOOK OF
THE CHINESE ACADEMY OF SCIENCES
1998

中国科学院计划财务局 编

科学出版社出版

北京东黄城根北街 16 号

邮政编码：100717

中国科学院印刷厂 印刷

新华书店北京发行所发行 各地新华书店经售

*

1998 年 11 月第 一 版 开本：787×1092 1/16

1998 年 11 月第一次印刷 印张：22 3/4

印数：1—600

字数：516 000

ISBN 7-03-006996-X/Z · 288

定价：58.00 元

《中国科学院统计年鉴》 编委会和编辑人员

一、编委会

主编:竺 玄

副主编:顾文琪 李志刚

编辑委员(以姓氏笔画为序):

王喜敏 刘晓群 刘学英 刘丽曼 陈兰英
李志刚 李廷杰 李宪卿 沈幸华 余翔林
何仁甫 张 侃 张树春 竺 玄 苑克伟
顾文琪 戚 强 黄伯明 韩建国 魏 玲

二、编辑部工作人员

总 编 辑:李志刚

副总编辑:刘学英

编辑人员(以姓氏笔画为序):

白 宁 刘学英 刘建军 刘继昱 孙 伟
吕中林 朱又德 李 宏 李 菊 李 军
沈 菁 苏汉武 杨兴宪 杨 茜 庞 维
金碧辉 赵国华 郑晓年 柴弘俪 高 晶
唐 炜 唐裕华 颜永平

英文翻译:齐志英 兰翠玲 李 卫

审 校:韩建国

Members of the Editorial Committee and Editorial Office of the

Statistical Yearbook of the Chinese Academy of Sciences

Editorial Committee

Chief Editor: Zhu Xuan

Deputy Chief Editors: Gu Wenqi, Li Zhigang

Members (according to the order of Chinese alphabet) :

Wang Ximin,	Liu Xiaoqun,	Liu Xueying,	Liu Liman,
Chen Lanying,	Li Zhigang,	Li Tingjie,	Li Xianqing,
Shen Xinghua,	Yu Xianglin	He Renfu,	Zhang Kan,
Zhang Shuchun,	Zhu Xuan,	Yuan Kewei,	Gu Wenqi,
Qi Qiang,	Huang Boming,	Han Jianguo,	Wei Ling

Editorial Office

Chief: Li Zhigang

Deputy Chief: Liu Xueying

Members (according to the order of Chinese alphabet):

Bai Ning,	Liu Xueying,	Liu Jianjun,	Liu Jiyu,	Sun Wei,
Lu Zhonglin	Zhu Youde,	Li Hong,	Li Ju,	Li Jun,
Shen Qing,	Su Hanwu,	Yang Xingxian,	Yang Xi,	Pang Wei,
Jin Bihui,	Zhao Guohua,	Zhen Xiaonian,	Chai Hongli,	
Gao Jing,	Tang Wei,	Tang Yuhua,	Yan Yongping	

English Translations: Qi Zhiying, Lan Cuiling, Li Wei

Rivision: Han Jianguo

编 者 说 明

一、《中国科学院统计年鉴，1998》是一部全面反映我院科技工作和各项事业发展发展的资料性年刊。本书收录了全院及院属各单位 1997 年的统计数据以及历年全院主要统计数据。

二、全书内容分为十一个部分，即：学部，机构，人员，经费、基本建设，科技活动，企业开发经营活动，科技论文、专利、获奖成果，国际交流，人才培养，文献、情报，图书出版。主要统计指标解释附在各部分后面。

三、本年鉴资料来源于综合、业务及其他管理部门年度统计报表。

四、本年鉴部分数据合计数由于单位取舍不同产生的计算误差均未做机械调整。

五、本年鉴部分“按学科分”的汇总数，均指按机构所属学科分。

六、本年鉴由中国科学院计划财务局会同院机关有关部门共同完成。编辑出版过程中，得到各方面的支持和帮助，在此一并致谢。

EDITOR'S NOTES

The *Statistical Yearbook of the Chinese Academy of Sciences, 1998* is an informational almanac which gives an overall description of every major aspect related to CAS's scientific and technological (S&T) activities and its development. It contains statistical data of institutions and organizations of the CAS in 1997 as well as its important statistical information in the past years.

The Yearbook consists of the following 11 parts: academic divisions, organizations, personnel, funds and capital construction, S&T activities, business activities of CAS enterprises, S&T papers, patents and award-winning achievements, international cooperation, talent training, documentation and information, and publication. Explanatory notes on key indicators are attached at the end of each part.

Data contained in the Yearbook are selected from the annual statistical reports of various professional and management departments of the Head Office of the CAS.

Details may not add to the total in some statistical tables due to rounding. No manual adjustment is made.

The definition "By field" in some statistical tables refers to the classification of research fields which the institutes mainly deal with.

The Yearbook is completed by the Bureau of Planning and Finance of the CAS in cooperation with the relevant departments of the Head Office of the CAS. The Editorial Committee extends its gratitude to all those who have rendered their valuable support and assistance during the preparation of this Yearbook.

目 录

一、学 部

1.1	历届当选的中国科学院院士(学部委员)人数按学部分布	(3)
1.2	现有院士人数按单位分布(1997年)	(3)

二、机 构

2.1	院直属单位发展情况	(7)
2.2	院直属事业单位(1997年)	(7)
2.3	院直属企业单位(1997年)	(13)
	主要统计指标解释	(14)

三、人 员

3.1	正式职工分类情况	(16)
3.2	正式职工及离、退休人员情况(1997年)	(18)
3.3	正式职工年龄情况(1997年)	(42)
3.4	正式职工学位和学历情况(1997年)	(43)
	主要统计指标解释	(44)

四、经 费、基 本 建 设

4.1	科学事业单位总经费收入、支出情况	(49)
4.2	科学事业单位总经费收入情况(1997年)	(50)
4.3	科学事业单位总经费支出情况(1997年)	(52)
4.4	基本建设	(54)
4.5	基本建设投资完成情况(1997年)	(55)
4.6	基本建设建筑面积完成情况(1997年)	(55)
	主要统计指标解释	(56)

五、科 技 活 动

5.1	科研机构与人员概况	(62)
5.2	科研机构职工按工作性质分类(1997年)	(63)
5.3	科研机构经常费收入、支出情况	(65)
5.4	科研机构经常费收入情况(1997年)	(66)
5.5	科研机构经常费支出情况(1997年)	(86)
5.6	科研机构基本建设投资完成情况	(97)
5.7	科研机构基本建设投资完成情况(1997年)	(98)
5.8	科研机构固定资产情况(1997年)	(100)

5.9	科研机构科研仪器设备情况(1997年)	(102)
5.10	科研机构科技活动课题基本情况	(122)
5.11	科研机构研究与发展课题基本情况	(122)
5.12	科研机构科技活动课题综合情况(1997年).....	(123)
5.13	科研机构科技活动课题按活动类型分类(1997年)	(124)
5.14	科研机构科技活动课题按任务来源分类(1997年)	(130)
5.15	科研机构研究与发展课题按社会-经济目标分类(1997年)	(136)
5.16	科研机构科技活动课题按技术领域分类(1997年).....	(137)
5.17	科研机构技术合同按买方类型分类(1997年)	(138)
5.18	科研机构科技著作	(142)
5.19	科研机构科技著作(1997年)	(143)
5.20	支撑机构科技活动课题综合情况(1997年).....	(145)
5.21	开放实验室(所、站)人员情况(1997年)	(146)
5.22	开放实验室(所、站)课题情况(1997年)	(168)
5.23	开放实验室(所、站)科研课题经费情况(1997年)	(168)
5.24	开放实验室(所、站)科技成果情况(1997年)	(170)
	主要统计指标解释	(172)

六、企业开发经营活动

6.1	全院企业统计指标	(195)
6.2	全院企业主要统计指标(1997年)	(197)
6.3	全院企业按职工总数分组(1997年)	(197)
6.4	全院企业按营业收入分组(1997年)	(198)
6.5	全院企业按年创利润总额分组(1997年)	(198)
6.6	营业收入超千万元的企业(1997年)	(199)
6.7	利润总额超百万元的企业(1997年)	(201)
6.8	企业经营情况按行业分类(1997年)	(203)
6.9	企业科技活动课题按活动类型分类(1997年)	(204)
6.10	企业科技活动课题按技术领域分类(1997年)	(204)
6.11	企业科技活动课题按合作形式分类(1997年)	(205)
6.12	高新技术产品情况(1997年)	(205)
	主要统计指标解释	(206)

七、科技论文、专利、获奖成果

7.1	科技论文的发表及被引用情况	(210)
7.2	科技论文的发表及被引用情况(1996年)	(211)
7.3	科技论文在国内重要期刊上发表及被引用情况	(222)
7.4	科技论文在国内重要期刊上被引次数最多的前30名机构(1996年)	(223)
7.5	专利申请受理量及授权量	(225)

7.6	专利申请受理量及授权量(1997年)	(226)
7.7	历年获国家级三大奖科技成果(截至 1997 年)	(237)
7.8	历年获国家级三大奖项目按单位分(截至 1997 年).....	(238)
7.9	获国家自然科学奖科技成果	(260)
7.10	获国家发明奖科技成果	(261)
7.11	获国家科技进步奖科技成果	(263)
7.12	获中国科学院自然科学奖情况	(265)
7.13	获中国科学院科技进步奖情况	(265)

八、国际合作及与港、澳、台交流

8.1	国际合作及与港、澳、台交流情况	(269)
8.2	国际合作及与港、澳、台交流情况(1997年)	(270)
8.3	国际合作及与港、澳、台交流邀请项目按类型分类(1997年)	(276)
8.4	国际合作及与港、澳、台交流派出项目按类型分类(1997年)	(281)
8.5	中国科学院与国外科研机构主要合作协议执行情况(1997年)	(286)
8.6	在国际组织任职人员情况(1997年)	(291)

九、人才培养

9.1	中国科学技术大学录取和毕业大学生情况	(294)
9.2	录取研究生和授予学位情况	(295)
9.3	研究生招收培养及授予学位情况(1997年)	(296)
9.4	中国科学院院长奖学金获奖情况	(314)
9.5	博士后流动站情况(1997年)	(315)
9.6	派往国外及香港地区留学人员情况	(321)
9.7	派往国外及香港地区留学人员情况(1997年)	(322)
9.8	职工教育和社会培训情况(1997年)	(326)
9.9	获青年科学家奖人员情况	(328)
9.10	特批高级专业技术职务人数	(330)
9.11	有突出贡献的专家人数	(330)
9.12	中国科学院“百人计划”招聘情况	(330)
9.13	中国科学院“百人计划”各单位招聘情况	(331)

十、文献、情报

10.1	文献情报系统馆藏文献情况	(339)
10.2	文献情报系统馆藏图书、期刊情况(1997年)	(340)
10.3	文献情报系统馆藏印刷型特种文献情况(1997年)	(341)
10.4	文献情报系统馆藏非印刷型特种文献情况(1997年)	(341)
10.5	文献情报系统文献服务情况(1997年)	(342)
10.6	文献情报系统情报加工与服务情况(1997年)	(342)

十一、图书出版

11.1 图书出版情况	(344)
11.2 图书出版情况(1997 年)	(346)
11.3 自然科学期刊分类情况(1997 年)	(347)

CONTENTS

1. ACADEMIC DIVISIONS

1.1 CAS Members, by Academic Division and Year of Election	(3)
1.2 Present CAS Members, by Institution: 1997	(3)

2. ORGANIZATIONS

2.1 The Development of Units Directly under CAS	(7)
2.2 Institutions Directly under CAS: 1997	(7)
2.3 Enterprises Directly under CAS: 1997	(13)
Explanatory Notes on Key Indicators	(14)

3. PERSONNEL

3.1 Classification of CAS Regular Staff	(16)
3.2 CAS Regular Staff and Total Retired Personnel: 1997	(18)
3.3 Age Distribution of CAS Regular Staff : 1997	(42)
3.4 CAS Regular Staff, by Academic Degree and Qualification: 1997	(43)
Explanatory Notes on Key Indicators	(44)

4. FUNDS AND CAPITAL CONSTRUCTION

4.1 Total Income and Expenditure of CAS Scientific Institutions	(49)
4.2 Total Income of CAS Scientific Institutions: 1997	(50)
4.3 Total Expenditure of CAS Scientific Institutions: 1997	(52)
4.4 Statistics of CAS Capital Construction	(54)
4.5 Capital Expenditure: 1997	(55)
4.6 Floor Space Completed: 1997	(55)
Explanatory Notes on Key Indicators	(56)

5. SCIENTIFIC AND TECHNOLOGICAL ACTIVITIES

5.1 Statistics of CAS Research Units and Staff	(62)
5.2 Statistics of CAS Staff, by Nature of Work: 1997	(63)
5.3 Total Current Intramural Income and Expenditure in CAS Research Units	(65)
5.4 Total Current Intramural Income in CAS Research Units: 1997	(66)

5.5 Total Current Intramural Expenditure in CAS Research Units: 1997	(86)
5.6 Capital Expenditure in CAS Research Units	(97)
5.7 Capital Expenditure in CAS Research Units: 1997.....	(98)
5.8 Statistics of Fixed Assets in CAS Research Units: 1997	(100)
5.9 Scientific Equipment & Instrumentation in CAS Research Units: 1997	(102)
5.10 Basic Statistics of S&T Projects in CAS Research Units	(122)
5.11 Basic Statistics of R&D Projects in CAS Research Units	(122)
5.12 Statistics of S&T Projects in CAS Research Units: 1997	(123)
5.13 Total S&T Projects in CAS Research Units, by Type of Research: 1997.....	(124)
5.14 Total S&T Projects in CAS Research Units, by Source of Project: 1997.....	(130)
5.15 R&D Projects in CAS Research Units, by Socio-Economic Objective: 1997	(136)
5.16 Total S&T Projects in CAS Research Units, by Type of Technology: 1997	(137)
5.17 Number of Technology Contracts Signed by CAS Research Units, by Type of Buyer:1997.....	(138)
5.18 S&T Works Published by CAS Research Units.....	(142)
5.19 S&T Works Published by CAS Research Units: 1997	(143)
5.20 Statistics of S&T Projects in CAS Supporting Units: 1997	(145)
5.21 Basic Statistics of Staff in the Open Laboratories (Institutes and Stations): 1997	(146)
5.22 Basic Statistics of Research Projects Conducted by the Open Laboratories (Institutes and Stations): 1997	(168)
5.23 Statistics of Research Project Funds for CAS Open Laboratories (Institutes and Stations): 1997	(168)
5.24 Statistics of S&T Achievements Made by the Open Laboratories (Institutes and Stations): 1997	(170)
Explanatory Notes on Key Indicators	(172)

6. BUSINESS ACTIVITIES OF CAS ENTERPRISES

6.1 Statistical Indices of CAS Enterprises	(195)
6.2 Major Statistical Indices of CAS Enterprises: 1997	(197)
6.3 CAS Enterprises, by Number of Staff: 1997	(197)
6.4 CAS Enterprises, by Operating Income: 1997.....	(198)
6.5 CAS Enterprises, by Annual Profit: 1997.....	(198)
6.6 CAS Enterprises with Operating Income Exceeding Ten Million Yuan: 1997.....	(199)
6.7 CAS Enterprises with Profit Exceeding One Million Yuan: 1997	(201)
6.8 Statistics of Business Operation of CAS Enterprises, by Sector: 1997	(203)
6.9 S&T Projects in CAS Enterprises, by Type of Research : 1997.....	(204)
6.10 S&T Projects in CAS Enterprises, by Type of Technology: 1997	(204)
6.11 S&T Projects in CAS Enterprises, by Form of Cooperation: 1997	(205)

6.12 New and High-Tech nology Products:1997	(105)
Explanatory Notes on Key Indicators	(206)

7. S&T PAPERS, PATENTS AND AWARD-WINNING ACHIEVEMENTS

7.1 S&T Publications and Citations	(210)
7.2 S&T Publications and Citations: 1996	(211)
7.3 S&T Papers Published and Cited by Major Domestic Journals	(222)
7.4 Top 30 Institutions in Citation of S&T Papers by Major Domestic Journals: 1996	(223)
7.5 Number of Patents Applied and Granted	(225)
7.6 Number of Patents Applied and Granted: 1997	(226)
7.7 S&T Achievements Granted with Three National Awards: up to 1997	(237)
7.8 Research Projects Granted with Three National Major Awards: up to 1997	(238)
7.9 S&T Achievements Granted with National Natural Science Awards	(260)
7.10 S&T Achievements Granted with National Invention Awards	(261)
7.11 S&T Achievements Granted with National S&T Progress Awards	(263)
7.12 S&T Achievements Granted with CAS Natural Science Awards	(265)
7.13 S&T Achievements Granted with CAS S&T Progress Awards	(265)

8. INTERNATIONAL COOPERATION AND EXCHANGES WITH HONG KONG, MACAO AND TAIWAN REGIONS

8.1 International Cooperation and Exchanges with Hong Kong, Macao and Taiwan Regions	(269)
8.2 International Cooperation and Exchanges: with Hong Kong, Macao and Taiwan Regions: 1997	(270)
8.3 Statistics of Visitors Hosted by CAS, by Type of Exchange: 1997	(276)
8.4 Statistics of CAS Staff Sent Outside, by Type of Exchange: 1997	(281)
8.5 Main Agreements Between the CAS and Its Foreign Counterparts: 1997	(286)
8.6 Statistics of CAS Professionals Holding Posts in Various International Organizations: 1997	(291)

9. TALENT TRAINING

9.1 Enrollment and Graduation of Undergraduate Students in the University of Science and Technology of China.....	(294)
9.2 Total Enrollment of Graduate Students and Degrees Granted	(295)
9.3 Total Enrollment of Graduate Students and Degrees Granted: 1997.....	(296)
9.4 Statistics of CAS President's Scholarship	(314)

9.5 Post-doctoral Researcher Centers: 1997	(314)
9.6 Statistics of Students and Visiting Scholars Sent Abroad	(315)
and Hong Kong Region	(321)
9.7 Statistics of Students and Visiting Scholars Sent Abroad and Hong Kong Region: 1997	(322)
9.8 Statistics of Staff Training and Personnel Trained for the Society: 1997.....	(326)
9.9 Statistics of the Young Scientist Award Winners	(328)
9.10 Statistics of Senior Professional Posts Specially Approved	(330)
9.11 Statistics of Professionals with Outstanding Contributions	(330)
9.12 Young Scholars Selected into CAS Hundred Talents Program	(330)
9.13 Young Scholars Selected into CAS Hundred Talents Program, by Institution	(331)

10. DOCUMENTATION AND INFORMATION

10.1 Statistics of Documentation Collected by CAS Documentation and Information System	(339)
10.2 Statistics of Books and Periodicals Collected by CAS Documentation and Information System: 1997	(340)
10.3 Statistics of Printed Special Documents Collected by CAS Documentation and Information System: 1997	(341)
10.4 Statistics of Non-printed Special Documents Collected by CAS Documentation and Information System: 1997	(341)
10.5 Documentation Services Provided by CAS Documentation and Information System: 1997	(342)
10.6 Information Processing and Services Provided by CAS Documentation and Information System: 1997	(342)

11. PUBLICATION

11.1 Classification of Books Published	(344)
11.2 Classification of Books Published: 1997	(346)
11.3 Classification of Periodicals in Natural Science: 1997	(347)

一、学 部

ACADEMIC DIVISIONS

