

2018

中国科技统计年鉴

CHINA STATISTICAL YEARBOOK ON SCIENCE AND TECHNOLOGY

国家统计局社会科技和文化产业统计司 编
科学技术部战略规划司

Compiled By

Department of Social, Science and Technology, and Cultural Statistics National Bureau of Statistics

Department of Strategy and Planning Ministry of Science and Technology

 中国统计出版社
China Statistics Press

2018

中国科技统计年鉴

CHINA STATISTICAL YEARBOOK
ON SCIENCE AND TECHNOLOGY

国家统计局社会科技和文化产业统计司 编
科学技术部战略规划司

Compiled By

Department of Social, Science and Technology, and Cultural Statistics National Bureau of Statistics

Department of Strategy and Planning Ministry of Science and Technology



 中国统计出版社
China Statistics Press

© 中国统计出版社 2018

版权所有。未经许可，本书的任何部分不得以任何方式在世界任何地区以任何文字翻印、拷贝、仿制或转载。

© 2018 China Statistics Press

All rights reserved. No part of the publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system, without written permission from the publisher.

图书在版编目（CIP）数据

中国科技统计年鉴. 2018：汉英对照 / 国家统计局
社会科技和文化产业统计司，科学技术部战略规划司编
.-- 北京：中国统计出版社, 2018.11
ISBN 978-7-5037-8756-0

I. ①中… II. ①国… ②科… III. ①科技统计—中
国—2018—年鉴—汉、英 IV. ①G322-66

中国版本图书馆 CIP 数据核字(2018)第 266565 号

中国科技统计年鉴—2018

作 者/国家统计局社会科技和文化产业统计司 科学技术部战略规划司
责任编辑/徐 涛 林 梅 焦智康
封面设计/李雪燕
出版发行/中国统计出版社
通信地址/北京市丰台区西三环南路甲 6 号 邮政编码/100073
电 话/邮购 (010) 63376909 书店 (010) 68783171
网 址/ <http://www.zgtjcb.com>
印 刷/河北鑫兆源印刷有限公司
经 销/新华书店
开 本/880mm×1230mm 1/16
字 数/616 千字
印 张/19.25
版 别/2018 年 12 月第 1 版
版 次/2018 年 12 月第 1 次印刷
定 价/260.00 元

本书附同版本 CD-ROM 一张，光盘内容以书面文字为准。
如有印装差错，由本社发行部调换。

《中国科技统计年鉴-2018》

编辑委员会和编辑部

编辑委员会

主 任：张仲梁 许 惊

副 主 任：关晓静 吴 向

委 员：王克钧 邓永旭 秦浩源 张拥军 段红波 翟 虹
王晓许 赵 倩

编辑部

总 编 辑：关晓静

副总编辑：王克钧 邓永旭 秦浩源

编辑人员：李 胤 张 鹏 林 梅 张启龙 罗秋实 焦智康
毕 宁 侯丽珠 王 骁 郑哲文 王 岳 涂 骁
李凤新 刘 丹 苗 强 王 艳 刘伟芳 崔胜先
张淑丽 陈艳艳 张 伦 高 宇 胡洪瑞

英文翻译：赵利婧

责任编辑：徐 涛 林 梅 焦智康

CHINA STATISTICAL YEARBOOK ON SCIENCE AND TECHNOLOGY—2018

Editorial Board and Editorial Staff

Editorial Board

Chairman: Zhang Zhongliang Xu Jing

Vice Chairman: Guan Xiaojing Wu Xiang

Editorial Board: Wang Kejun Deng Yongxu Qin Haoyuan Zhang Yongjun
Duan Hongbo Zhai Hong Wang Xiaohu Zhao Qian

Editorial Staff

Editor in chief: Guan Xiaojing

Associate Editors in chief: Wang Kejun Deng Yongxu Qin Haoyuan

Editorial Staff: Li Yin Zhang Peng Lin Mei Zhang Qilong Luo Qiushi
Jiao Zhikang Bi Ning Hou Lizhu Wang Xiao
Zheng Zhewen Wang Yue Tu Xiao Li Fengxin Liu Dan
Miao Qiang Wang Yan Liu Weifang Cui Shengxian
Zhang Shuli Chen Yanyan Zhang Lun Gao Yu
Hu Hongrui

English Translator: Zhao Lijing

Coordinators: Xu Tao Lin Mei Jiao Zhikang

编者说明

《中国科技统计年鉴—2018》是国家统计局社会科技和文化产业统计司和科学技术部战略规划司共同编辑的反映我国科技活动情况的统计资料书，收录了全国 31 个省、自治区、直辖市以及国务院有关部门 2017 年度科技统计数据。

全书内容分为九个部分。第一部分为反映全社会科技活动的综合统计资料。第二、三、四部分分别为工业企业、研究与开发机构和高等学校科技活动统计资料，其中工业企业的口径为规模以上工业企业，指年主营业务收入为 2000 万元及以上的法人工业企业；研究与开发机构的口径为地级及以上独立核算的政府属科学研究与技术开发机构、科学技术信息和文献机构；高等学校包括全日制高校及其附属医院。第五部分为高技术产业发展统计资料。第六部分为企业创新活动统计资料。第七部分为国家科技计划统计资料。第八部分为科技活动成果统计资料。第九部分为综合技术服务部门和科协活动有关资料。第十部分为国际科技统计资料。最后附有主要统计指标解释。

本书有关符号说明：“空格”表示该项统计指标数据不足本表最小单位数、不详或无该项数据；“#”表示是其中的主要项；“*”或“①”表示本表下有注解。

本书中因小数取舍而产生的误差均未做配平处理。

参与本书编辑的单位还有教育部、国防科技工业局、财政部、人力资源和社会保障部、自然资源部、商务部、市场监督管理总局、国家知识产权局、中国科学院、中国工程院、应急管理部、中国气象局、中国科协。我们对上述单位有关人员在本书的编辑过程中给予的大力支持与合作，表示衷心感谢。

FOREWORD

China Statistical Yearbook on Science and Technology-2018 is prepared jointly by the Department of Social, Science and Technology, and Cultural Statistics National Bureau of Statistics and the Department of Strategy and Planning of Science and Technology. The Yearbook, which covers data series at the national, provincial and local levels, and autonomous regions, as well as departments directly under the State Council, reports on the development of China's science and technology activities.

The yearbook contains the following nine parts. The first part reflects general science and technology(S&T) information on whole society; The second part, the third part and the forth part reflect respectively S&T information about Industrial Enterprises, Independent Research Institutions and Institutions of Higher Education. Industrial Enterprises cover Industrial Enterprises above Designated Size, with the sales revenue above 20 million RMB; Independent Research Institutions cover the municipal and above and independent accounting scientific research and technological development institutions which belong to government; Institutions of Higher Education cover Institutions of Higher Education and affiliated hospitals. The fifth part contains information on High Technology Industry. The sixth part contains information on innovation activities of enterprises. The seventh part contains information on National Program for Science and Technology. The eighth part contains information on results of S&T activities. The ninth part covers Scientific and Technologic Service and S&T activities of China Associations for S&T. The tenth part contains information on the international comparisons.

Notations used in this book: "(blank space)" indicates that the figure is not large enough to be measured with the smallest unit in the table or data are unknown or are not available; "#" indicates a major breakdown of the total; and "*" or "①" indicates footnotes at the end of the table.

Statistical discrepancies due to rounding are not adjusted in the yearbook.

The institutions participating editing this volume include: Ministry of Education, Sate Administration of Science, Technology and Industry for National Defense, Ministry of Finance, Ministry of Human Resources and Social Security, Ministry of Natural Resources, Ministry of Commerce, State Administration for Market Regulation, State Intellectual Property Office, Chinese Academy of Sciences, Chinese Academy of Engineering, Ministry of Emergency Management, China Meteorological Administration, China Association for Science and Technology. We would like to express our gratitude to these institutions of the State Council for their cooperation and support in sparing no effort to provide all the required data.

一、综合
General

1-1 研究与试验发展(R&D)人员(2017 年) 3
R&D Personnel (2017)

1-2 全国研究与试验发展(R&D)人员全时当量 4
Full-time Equivalent of R&D Personnel

1-3 按执行部门分研究与试验发展(R&D)人员全时当量(2017 年) 4
Full-time Equivalent of R&D Personnel by Performer(2017)

1-4 各地区研究与试验发展(R&D)人员全时当量(2017 年) 5
Full-time Equivalent of R&D Personnel by Region (2017)

1-5 全国研究与试验发展(R&D)经费内部支出 6
Intramural Expenditure on R&D

1-6 按执行部门分组的研究与试验发展(R&D)经费内部支出(2017 年) 6
Intramural Expenditure on R&D by Performer(2017)

1-7 各地区研究与试验发展(R&D)经费内部支出(2017 年) 7
Intramural Expenditure on R&D by Region (2017)

1-8 各地区研究与试验发展(R&D)经费投入强度 8
The R&D Expenditure Input Intensity by Region

1-9 按执行部门分组的研究与试验发展(R&D)经费内部支出 9
Intramural Expenditure on R&D by Performer

1-10 按执行部门和支出用途分 R&D 经费内部支出(2017 年) 9
Intramural Expenditure on R&D by Performer and Use (2017)

1-11 各地区按支出用途分研究与试验发展(R&D)经费内部支出(2017 年) 10
Intramural Expenditure on R&D by Region and Use (2017)

1-12 按资金来源分研究与试验发展(R&D)经费内部支出 11
Intramural Expenditure on R&D by Sources

1-13 按执行部门和来源构成分研究与试验发展(R&D)经费内部支出(2017 年) 11
Intramural Expenditure on R&D by Performer and Sources (2017)

1-14 各地区按资金来源分研究与试验发展(R&D)经费内部支出(2017 年) 12
Intramural Expenditure on R&D by Region and Sources(2017)

1-15 研究与试验发展(R&D)经费外部支出(2017 年) 13
External Expenditure on R&D (2017)

1-16 研究与试验发展(R&D)项目情况(2017 年) 14
R&D Projects(2017)

1-17 科技进步贡献率 15
MFP Contribution on Economic Growth

1-18 国家财政科技支出 15
Government Expenditure for Science and Technology

1-19 公有经济企事业单位专业技术人员 16
Technical Personnel in State-owned and Collective-owned Enterprises and Institutions

1-20 公有经济企事业单位分行业专业技术人员(2017 年) 17
Technical Personnel in State-owned and Collective-owned Enterprises and Institutions by Industrial Sector (2017)

1-21	各地区公有经济企事业单位专业技术人员(2017 年)	18
	Technical Personnel in State-owned and Collective-owned Enterprises and Institutions by Region (2017)	
1-22	分学科研究生情况 (2017 年)	19
	Number of Postgraduate Students by Field of Study (2017)	
1-23	普通本科分科学科学生数 (2017 年)	20
	Number of Students Regular Enrolled in Full Undergraduate Course by Field of Study (2017)	
1-24	普通专科分科学科学生数 (2017 年)	20
	Number of Students Regular Enrolled in Specialized Courses by Field of Study (2017)	
1-25	中国科学院院士和中国工程院院士	21
	Academicians of China Academy of Sciences and Academicians of China Academy of Engineering	
1-26	中国科学院全体院士名单	22
1-27	中国工程院全体院士名单	24

二、工业企业

Industrial Enterprises

2-1	规模以上工业企业的科技活动基本情况	28
	Basic Statistics on Science and Technology Activities of Industrial Enterprises above Designated Size	
2-2	按企业规模及登记注册类型分规上工业企业数量情况(2017 年)	30
	Number of Enterprises on Industrial Enterprises above Designated Size by Scale and Registration Status (2017)	
2-3	按行业分规上工业企业数量情况(2017 年)	31
	Number of Enterprises on Industrial Enterprises above Designated Size by Industrial Sector (2017)	
2-4	各地区规上工业企业数量情况(2017 年)	32
	Number of Enterprises on Industrial Enterprises above Designated Size by Region (2017)	
2-5	按企业规模及登记注册类型分规上工业企业 R&D 人员(2017 年)	33
	R&D Personnel in Industrial Enterprises above Designated Size by Scale and Registration Status(2017)	
2-6	按行业分规上工业企业 R&D 人员(2017 年)	34
	R&D Personnel in Industrial Enterprises above Designated Size by Industrial Sector(2017)	
2-7	各地区规上工业企业 R&D 人员(2017 年)	35
	R&D Personnel in Industrial Enterprises above Designated Size by Region(2017)	
2-8	按企业规模及登记注册类型分规上工业企业 R&D 经费内部支出(2017 年)	36
	Intramural Expenditure on R&D in Industrial Enterprises above Designated Size by Scale and Registration Status (2017)	
2-9	按行业分规上工业企业 R&D 经费内部支出(2017 年)	38
	Intramural Expenditure on R&D in Industrial Enterprises above Designated Size by Industrial Sector(2017)	
2-10	各地区规上工业企业 R&D 经费内部支出(2017 年)	40
	Intramural Expenditure on R&D in Industrial Enterprises above Designated Size by Region(2017)	
2-11	按企业规模及登记注册类型分规上工业企业 R&D 经费外部支出(2017 年)	42
	External Expenditure on R&D in Industrial Enterprises above Designated Size by Scale and Registration Status (2017)	
2-12	按行业分规上工业企业 R&D 经费外部支出(2017 年)	43
	External Expenditure on R&D in Industrial Enterprises above Designated Size by Industrial Sector(2017)	
2-13	各地区规上工业企业 R&D 经费外部支出(2017 年)	44
	External Expenditure on R&D in Industrial Enterprises above Designated Size by Region(2017)	
2-14	按企业规模及登记注册类型分规上工业企业 R&D 项目情况(2017 年)	45
	R&D Projects in Industrial Enterprises above Designated Size by Scale and Registration Status(2017)	
2-15	按行业分规上工业企业 R&D 项目情况(2017 年)	46
	R&D Projects in Industrial Enterprises above Designated Size by Industrial Sector(2017)	
2-16	各地区规上工业企业 R&D 项目情况(2017 年)	47
	R&D Projects in Industrial Enterprises above Designated Size by Region (2017)	

2-17	按企业规模及登记注册类型分规上工业企业办研发机构情况(2017 年).....	48
	R&D Institutions in Industrial Enterprises above Designated Size by Scale and Registration Status(2017)	
2-18	按行业分规上工业企业办研发机构情况(2017 年)	49
	R&D Institutions in Industrial Enterprises above Designated Size by Industrial Sector(2017)	
2-19	各地区规上工业企业办研发机构情况(2017 年)	50
	R&D Institutions in Industrial Enterprises above Designated Size by Region(2017)	
2-20	按企业规模及登记注册类型分规上工业企业新产品开发和销售(2017 年).....	51
	New Products Development and Sale of Industrial Enterprises above Designated Size by Scale and Registration Status (2017)	
2-21	按行业分规上工业企业新产品开发和销售(2017 年)	52
	New Products Development and Sale of Industrial Enterprises above Designated Size by Industrial Sector (2017)	
2-22	各地区规上工业企业新产品开发和销售(2017 年)	53
	New Products Development and Sale of Industrial Enterprise above Designated Size by Region (2017)	
2-23	按企业规模及登记注册类型分规上工业企业专利(2017 年).....	54
	Statistics on Patent of Industrial Enterprises above Designated Size by Scale and Registration Status (2017)	
2-24	按行业分规上工业企业专利(2017 年)	55
	Statistics on Patent of Industrial Enterprises above Designated Size by Industrial Sector (2017)	
2-25	各地区规上工业企业专利(2017 年)	56
	Statistics on Patent of Industrial Enterprises above Designated Size by Region (2017)	
2-26	按企业规模及登记注册类型分规上工业企业技术获取和技术改造(2017 年).....	57
	Technology Acquisition and Renovation of Industrial Enterprises above Designated Size by Scale and Registration Status (2017)	
2-27	按行业分规上工业企业技术获取和技术改造(2017 年).....	58
	Technology Acquisition and Renovation of Industrial Enterprises above Designated Size by Industrial Sector (2017)	
2-28	各地区规上工业企业技术获取和技术改造(2017 年)	59
	Technology Acquisition and Renovation of Industrial Enterprises above Designated Size by Region(2017)	

三、研究与开发机构

R&D Institutions

3-1	研究与开发机构基本情况	62
	Basic Statistics on Scientific Research and Development Institutions	
3-2	按隶属关系和学科分研究与开发机构 R&D 人员(2017 年)	63
	R&D Personnel in R&D Institutions by Subordination and Subject (2017)	
3-3	各地区研究与开发机构 R&D 人员(2017 年)	64
	R&D Personnel in R&D Institutions by Region(2017)	
3-4	各地区地方部门属研究与开发机构 R&D 人员(2017 年).....	66
	R&D Personnel in R&D Institutions on Local Governments by Region (2017)	
3-5	按服务的国民经济行业分研究与开发机构 R&D 人员(2017 年)	68
	R&D Personnel in R&D Institutions by Industrial Sector in which the R&D Institutions Served (2017)	
3-6	按隶属关系和学科分研究与开发机构 R&D 经费内部支出(2017 年)	74
	Intramural Expenditure on R&D of R&D Institutions by Subordination and Subject (2017)	
3-7	各地区研究与开发机构 R&D 经费内部支出(2017 年).....	76
	Intramural Expenditure on R&D of R&D Institutions by Region (2017)	
3-8	各地区地方部门属研究与开发机构 R&D 经费内部支出(2017 年)	78
	Intramural Expenditure on R&D in Local R&D Institutions by Region (2017)	
3-9	按服务的国民经济行业分研究与开发机构 R&D 经费内部支出(2017 年)	80
	Intramural Expenditure on R&D of R&D Institutions by Industrial Sector in which the R&D Institutions Served (2017)	

3-10 按隶属关系和学科分研究与开发机构 R&D 经费外部支出(2017 年)..... 84
External Expenditure on R&D of R&D Institutions by Subordination and Subject (2017)

3-11 各地区研究与开发机构 R&D 经费外部支出(2017 年)..... 85
External Expenditure on R&D of R&D Institutions by Region (2017)

3-12 按隶属关系和学科分研究与开发机构 R&D 课题(2017 年)..... 86
R&D Projects of R&D Institutions by Subordination and Subject (2017)

3-13 各地区研究与开发机构 R&D 课题(2017 年)..... 87
R&D Projects of R&D Institutions by Region (2017)

3-14 各地区地方部门属研究与开发机构 R&D 课题(2017 年)..... 88
R&D Projects Taken by Local R&D Institutions by Region (2017)

3-15 按服务的国民经济行业分研究与开发机构 R&D 课题(2017 年)..... 89
R&D Projects of R&D Institutions by Industry (2017)

3-16 按学科分组的 R&D 课题(2017 年)..... 91
R&D Projects Taken by R&D Institutions by Discipline (2017)

3-17 按来源和合作形式分研究与开发机构 R&D 课题(2017 年)..... 93
R&D Projects of R&D Institutions by Sources and Cooperation Modality (2017)

3-18 按隶属关系和学科分研究与开发机构科技产出(2017 年)..... 94
S&T Output of R&D Institutions by Subordination and Subject(2017)

3-19 各地区研究与开发机构科技产出(2017 年)..... 96
S&T Output of R&D Institutions by Region(2017)

3-20 各地区地方部门属研究与开发机构科技产出(2017 年)..... 98
S&T Output in R&D Institutions of Local Governments by Region(2017)

3-21 按服务的国民经济行业分研究与开发机构科技产出(2017 年)..... 100
S&T Output of R&D Institutions by Industrial Sector in which the R&D Institutions Served (2017)

四、高等学校
Higher Education

4-1 高等学校科技活动情况 108
Basic Statistics on Higher Education for Science and technology Activities

4-2 各地区高等学校 R&D 人员(2017 年)..... 110
R&D Personnel in Higher Education by Region (2017)

4-3 各地区理工农医类高等学校 R&D 人员(2017 年)..... 112
R&D Personnel in Higher Education in Natural Sciences & Technology by Region (2017)

4-4 各地区人文社科类高等学校 R&D 人员(2017 年)..... 114
R&D Personnel in Higher Education in Social Sciences & Humanities by Region (2017)

4-5 各地区高等学校 R&D 经费内部支出(2017 年)..... 116
Intramural Expenditures on R&D in Higher Education by Region (2017)

4-6 各地区理工农医类高等学校 R&D 经费内部支出(2017 年)..... 118
Intramural Expenditures on R&D in Higher Education in Natural Sciences & Technology by Region (2017)

4-7 各地区人文社科类高等学校 R&D 经费内部支出(2017 年)..... 120
Intramural Expenditures on R&D in Higher Education in Social Sciences & Humanities by Region (2017)

4-8 各地区高等学校 R&D 经费外部支出(2017 年)..... 122
External Expenditure on R&D in Higher Education by Region (2017)

4-9 各地区理工农医类高等学校 R&D 经费外部支出(2017 年)..... 123
External Expenditure on R&D in Higher Education in Natural Sciences & Technology by Region (2017)

4-10 各地区人文社科类高等学校 R&D 经费外部支出(2017 年)..... 124
External Expenditure on R&D in Higher Education in Social Sciences & Humanities by Region (2017)

4-11 各地区高等学校 R&D 课题(2017 年)..... 125
R&D Projects of Higher Education by Region (2017)

4-12 各地区理工农医类高等学校 R&D 课题(2017 年)..... 126
R&D Projects of Higher Education in Natural Sciences & Technology by Region (2017)
4-13 各地区人文社科类高等学校 R&D 课题(2017 年)..... 127
R&D Projects of Higher Education in Social Sciences & Humanities by Region (2017)
4-14 按学科分高等学校 R&D 课题(2017 年)..... 128
R&D Projects Taken by R&D Institutions by Discipline (2017)
4-15 按来源和合作形式分高等学校 R&D 课题(2017 年)..... 129
R&D Projects of Higher Education by Sources and Cooperation Modality (2017)
4-16 各地区高等学校科技产出(2017 年)..... 130
S&T Output of Higher Education by Region(2017)
4-17 各地区理工农医类高等学校科技产出(2017 年)..... 132
S&T Output of Higher Education in Social Sciences & Humanities by Region(2017)
4-18 各地区人文社科类高等学校科技产出(2017 年)..... 134
S&T Output of Higher Education in Social Sciences & Humanities by Region(2017)

五、高技术产业

High-tech Industry

5-1 高技术产业基本情况..... 139
Basic Statistics on High-tech Industry
5-2 高技术产业生产经营情况 (2017 年)..... 141
Statistics on Production and Management in High-tech Industry(2017)
5-3 高技术产业 R&D 活动情况 (2017 年)..... 142
Statistics on R&D Activities in High-tech Industry(2017)
5-4 各地区高技术产业 R&D 活动情况 (2017 年)..... 143
Statistics on R&D Activities in High-tech Industry by Region(2017)
5-5 高技术产业新产品开发及销售 (2017 年)..... 144
Statistics on New Products Development and Sale in High-tech Industry (2017)
5-6 各地区高技术产业新产品开发及销售 (2017 年)..... 145
Statistics on New Products Development and Sale in High-tech Industry by Region(2017)
5-7 高技术产业专利情况 (2017 年)..... 146
Statistics on Patents in High-tech Industry(2017)
5-8 各地区高技术产业专利情况 (2017 年)..... 147
Statistics on Patents in High-tech Industry by Region(2017)
5-9 高技术产业技术获取及技术改造 (2017 年)..... 148
Technology Acquisition and Renovation in High-tech Industry (2017)
5-10 各地区高技术产业技术获取及技术改造 (2017 年)..... 149
Technology Acquisition and Renovation in High-tech Industry by Region(2017)
5-11 高技术产业投资 (2017 年)..... 150
Statistics on Investment in Fixed Assets in High-tech Industry(2017)
5-12 各地区高技术产业投资 (2017 年)..... 151
Statistics on Investment in Fixed Assets in High-tech Industry by Region(2017)
5-13 国家级高新区企业主要经济指标 (2017 年)..... 152
Major Indicators of High-Technology Industrial Development Zone (2017)
5-14 高技术产品进出口贸易..... 158
Value of Imports and Exports of High-tech Products
5-15 按贸易方式分高技术产品进出口贸易 (2017 年)..... 158
Value of Imports and Exports of High-tech Products by Trade Form(2017)
5-16 各地区高技术产品进出口贸易 (2017 年)..... 159
Value of Imports and Exports of High-tech Products by Region(2017)

5-17 高技术产品、工业制成品、初级产品的进出口贸易额 160
Imports and Exports of High-tech Products, Manufactured Goods and Primary Goods

六、企业创新活动

Innovation Activities of Enterprises

6-1 规模(限额)以上企业创新活动总体情况(2017 年)..... 164
Enterprises above Designated Size with Innovation(2017)
6-2 规模(限额)以上企业产品和工艺创新分布情况(2017 年) 166
Enterprises above Designated Size with Product or Process Innovation(2017)
6-3 规模(限额)以上企业产品或工艺创新活动类型(2017 年) 170
Innovation Activities for Product or Process Innovation in Enterprises above Designated Size(2017)
6-4 规模以上工业企业创新费用支出情况(2017 年) 174
Innovation Expenditure of Industrial Enterprises above Designated Size(2017)
6-5 规模(限额)以上企业产品或工艺创新合作开展情况(2017 年) 180
Cooperation for Product or Process Innovation in Enterprises above Designated Size(2017)
6-6 规模(限额)以上企业组织和营销创新情况(2017 年)..... 184
Enterprises above Designated Size with Organizational or Marketing Innovation(2017)
6-7 规模(限额)以上企业创新战略目标制定情况(2017 年) 188
Innovation Strategic Objectives in Enterprises above Designated Size(2017)

七、国家科技计划

National Program for Science and Technology Development

7-1 国家主要科技计划基本情况 194
Appropriation for S&T by Central Government in the Main Programs of S&T
7-2 国家科技支撑计划/国家科技攻关计划①中央财政拨款 195
Appropriation for S&T by Central Government in Key Technologies R&D Program
7-3 国家重点基础研究发展计划(973 计划)中央财政拨款 195
Appropriation for S&T by Central Government in National Key Basic Research Program of China
7-4 国家重大科学研究计划中央财政拨款 196
Appropriation for S&T by Central Government in National Major Scientific Research Program of China
7-5 国家自然科学基金资助项目经费 196
Project Funding Approved by the National Natural Science Foundation of China
7-6 分部门国家自然科学基金资助项目经费(2017 年) 197
Project Funding Approved by the National Natural Science Foundation of China by Sectors (2017)
7-7 国家重点实验室运行情况(2017 年) 198
State Key Laboratories and National Laboratories Operation By Sectors (2017)
7-8 全国创业风险投资基本情况 200
Basic Statistics on National VC Capital

八、科技活动成果

Results of Science and Technology Activities

8-1 国内专利申请数 203
Domestic Patent Applications
8-2 国内专利授权数 204
Domestic Patents Granted

8-3	国内有效专利数	205
	Domestic Patents in Force	
8-4	国内、外三种专利申请数	206
	Three Kinds of Applications for Patents	
8-5	国内、外三种专利授权数	207
	Three Kinds of Patents Granted	
8-6	国内、外三种专利有效数	208
	Three Kinds of Patents in Force	
8-7	国内三种专利申请数按地区分布(2017 年)	209
	Three Kinds of Domestic Patent Applications by Region (2017)	
8-8	国内三种专利授权数按地区分布(2017 年)	210
	Three Kinds of Domestic Patent Granted by Region (2017)	
8-9	国内三种专利有效数按地区分布(2017 年)	211
	Three Kinds of Domestic Patents in Force by Region (2017)	
8-10	按国别(地区)分国外三种专利申请受理	212
	Three Kinds of Foreign Patent Applications Accepted by Country (Area)	
8-11	按国别(地区)分国外三种专利授权	214
	Three Kinds of Foreign Patents Granted by Country (Area)	
8-12	按国别(地区)分国外三种专利有效数	216
	Three Kinds of Foreign Patents in Force by Country (Area)	
8-13	按国际专利标准分类的专利申请受理、授权和有效数(2017 年)	218
	Patents Applications Accepted, Granted and in Force by International Patent Classification (2017)	
8-14	国防专利申请数	221
	National Defense Patent Applications	
8-15	国防专利授权数	222
	National Defense Patent Grants	
8-16	国防有效专利数	223
	National Defense Patents in Force	
8-17	按申请人分国防专利申请、授权和有效数	224
	National Defense Patent Applications Accepted, Granted and in Force by Type of Applicant	
8-18	国外主要检索工具收录我国论文总数及在世界上的位置	225
	Number of Chinese Paper Taken by Major Foreign Referencing Systems and Precedence in the World	
8-19	国外主要检索工具收录的我国科技人员在国内外期刊上发表论文数	225
	Number of Papers by Chinese Scientists and Technicians Published in Domestic and Foreign Periodicals and Taken by Major Foreign Referencing System	
8-20	国外主要检索工具收录我国科技论文按学科分布(2016 年)	226
	Chinese Scientific Papers Taken by Major Foreign Referencing System by Discipline (2016)	
8-21	国外主要检索工具收录我国科技论文按地区分布(2016 年)	227
	Chinese Scientific Papers Taken by Major Foreign Referencing System by Region (2016)	
8-22	2001-2016 年《SCI》收录的我国科技论文的 10 年滚动被引用情况	228
	Citation Impact of Chinese Scientific Papers in 10 Year over Lapping Taken in SCI	
8-23	中文科技期刊刊登的科技论文篇数按机构类型分类(2016 年)	228
	Scientific Papers Published in Chinese Science and Technology Periodicals by Type of Institutions (2016)	
8-24	重大科技成果	229
	Major Research Results of Science and Technology	
8-25	国家级科技奖励	229
	National Science and Technology Awards	
8-26	国家级科技奖励分布	230
	Distribution of National Science and Technology Awards	
8-27	商标注册申请及核准注册商标	231
	Registration Application and Approved of Trademark	

8-28	各地区商标注册申请与注册(2017 年)	232
	Registration Application and Approved of Trademark by Region (2017)	
8-29	集成电路布图设计登记申请和登记发证(2017 年)	233
	Registration Application and Registration Certification of Integrated Circuit Layout-design (2017)	
8-30	农业植物新品种权申请和授权(2017 年)	234
	Application and Granted of New Variety Rights of Agriculture Plants(2017)	
8-31	农业植物新品种权申请和授权(2017 年)	235
	Application and Granted of New Variety Rights of Agriculture Plants (2017)	
8-32	按技术合同构成分全国技术市场成交合同数	236
	Contract Deals in Domestic Technical Markets by Type of Contracts	
8-33	按技术合同构成分全国技术市场成交合同金额	238
	Value of Contract Deals in Domestic Technical Markets by Type of Contracts	
8-34	按买卖方构成类别分全国技术市场成交合同数	240
	Contract Deals in Domestic Technical Markets by Category of Technology Seller and Buyer	
8-35	按买卖方构成类别分全国技术市场成交合同金额	241
	Value of Contract Deals in Domestic Technical Markets by Category of Technology Seller and Buyer	
8-36	技术市场技术输出地域(合同数)	242
	Contract Exportation from Domestic Technical Markets by Region	
8-37	技术市场技术输出地域(合同金额)	243
	Value of Contract Exportation from Domestic Technical Markets by Region	
8-38	技术市场技术流向地域(合同数)	244
	Contract Inflows to Domestic Technical Markets by Region	
8-39	技术市场技术流向地域(合同金额)	245
	Value of Contract Inflows to Domestic Technical Markets by Region	
8-40	按合同类别分技术市场技术流向地域(合同数)(2017 年)	246
	Contract Inflows to Domestic Technical Markets by Region (2017)	
8-41	按合同类别分技术市场技术流向地域(合同金额)(2017 年)	247
	Value of Contract Inflows to Domestic Technical Markets by Region (2017)	
8-42	按地区分的国外技术引进合同(2017 年)	248
	Technology Contracts Imported by Region (2017)	
8-43	按行业分的国外技术引进合同(2017 年)	249
	Technology Contracts Imported by Industry (2017)	
8-44	国外技术引进合同按引进方式分(2017 年)	249
	Technology Contracts Imported by Type of Import (2017)	
8-45	按引进国别或地区分的国外技术引进合同(2017 年)	250
	Technology Contracts Imported by Country or Area (2017)	

九、科技服务

Scientific and Technologic Services

9-1	全国非油气地质勘查分地区情况(2017 年)	254
	Basic Statistics on Geological Work by Region (2017)	
9-2	全国气象部门基本情况	255
	Basic Statistics on Meteorological Units	
9-3	地震台、网基本情况 (2017 年)	256
	Statistics of Earthquake Monitoring Stations and Networks (2017)	
9-4	海洋观测预报单位机构、人员情况	257
	Institutions and Personnel in Ocean Observation and Forecasting	
9-5	海洋观测调查情况 (2017 年)	257
	Basic Statistics on Ocean Observation (2017)	

9-6	国家标准、计量基本情况	258
	Basic Statistics on National Standards and Measurement	
9-7	地方标准、质量监督基本情况	258
	Basic Statistics on Local Standards and Measurements	
9-8	各地区测绘地理信息部门生产完成情况(2017 年)	260
	Statistics on Projects Completed by Geographic Information Department of Surveying and Mapping by Region (2017)	
9-9	各地区测绘地理信息部门资料提供情况(2017 年)	261
	Statistics on Geographic Information Department of Surveying and Mapping Materials by Region (2017)	
9-10	国际科技合作项目	262
	International Cooperation Exchange for Science and Technology	
9-11	国际科技合作项目参加人数	263
	Personnel Participated in International Cooperation Exchange for Science and Technology	
9-12	中国科协系统科技活动情况(2017 年)	264
	Basic Statistics on Scientific and Technological Activities of China Associations for Science and Technology (2017)	
9-13	各地区科学普及基本情况(2017 年)	268
	Main Indicators of Science and Technology Popularization by Region (2017)	
9-14	全国生产力促进中心主要经济指标	270
	Main Economic Indicators of Productivity Promotion Centers(PPCs) in China	
9-15	科技企业孵化器基本情况	271
	Basic Statistics on Technology Business Incubators	
9-16	各地区科技企业孵化器主要指标(2017 年)	272
	Main Indicators of Technology Business Incubators by Region (2017)	
9-17	众创空间运行综合情况	273
	Statistics on Mass Maker Spaces	
9-18	各地区众创空间主要指标(2017 年)	274
	Main Indicators of Mass Maker Spaces by Region(2017)	

十、国际比较

International Comparison

10-1	研究与试验发展(R&D)经费及占国内生产总值的比重	276
	R&D Expenditure and as a Percentage of GDP	
10-2	研究与试验发展(R&D)活动的国际比较	280
	International Comparison of R&D Activities	
10-3	按 ESI 论文数量排序的前 20 个国家	282
	The Top 20 Most-cited Countries Sorted by Papers in ESI	
10-4	按 ESI 论文被引用次数排序的前 20 个国家	283
	The Top 20 Most-cited Countries Sorted by Citations in ESI	
10-5	PCT 专利申请量按来源国统计的国际比较	284
	International Comparision of Number of patent applications filed under the PCT System by Origin	

主要统计指标解释	289
----------------	-----

Explanatory Notes on Main Statistical Indicators

一、综合

General