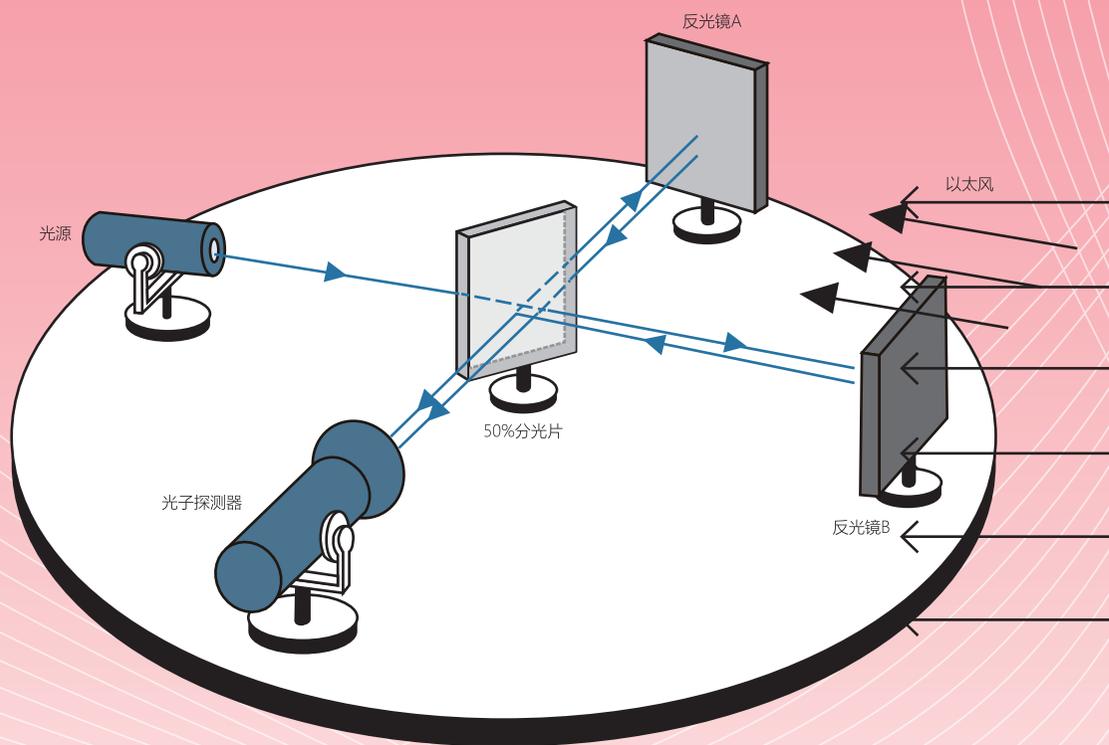


# 中國科技論壇 方啟

FORUM ON SCIENCE AND  
TECHNOLOGY IN CHINA

中文核心期刊 中文社会科学引文索引 (CSSCI) 来源期刊  
中国人文社会科学综合评价AMI核心期刊 中国科技论文统计源期刊  
RCCSE中国核心学术期刊 (A)



1887年 迈克尔逊和莫雷用实验否定了地球上以太的存在

2022

06

主 管： 中华人民共和国  
科学技术部

主 办： 中国科学技术发展  
战略研究院

主 编： 胡志坚

副主编： 张九庆

编辑部主任：迟凤玲

## 顾 问

陈 劲 方 新 金 碚 王 元

## 编 委

曹 聪 陈 强 陈 志 军

迟凤玲 Denis Simon(美)

樊春良 房汉廷 封凯栋

葛秋萍 龚 旭 顾 新

郭铁成 Hwang-hee CHO(韩)

胡志坚 Jon Pedersen(挪)

李 群 李 万 李春成

刘冬梅 柳卸林 戚 湧

史占中 孙福全 王奋宇

王伟光 王义桅 危怀安

徐雨森 许世卫 伊 彤

游光荣 原长弘 张成岗

张九庆 张振刚 朱春奎

## 卷首语

科技创新赋能美好生活的战略路径 ..... 朱春奎

## 科技政策

1 新中国成立以来科技体制演变的历程与启示

.....曹 原 田中修 肖 瑜等

11 科技自立自强视域下科技政策的转变：从追赶型到引领型

.....贾宝余 陈 套 刘 立

19 科研事业单位收入分配改革的逻辑——基于系统论的分析

.....韩凤芹 陈亚平

## 科研管理

26 突破制度“高墙”：政府支持新型研发机构的特殊制度逻辑

——基于深圳、北京、南京、上海实践的比较

.....姜 春 李诗涵 胡 峰等

38 新时代加快农科紧缺人才高质量培养——基于 IPOE 框架的

504 名农科专家访谈分析 .....陈新忠 郭广霞 朱晓燕

## 创新研究

47 不同类型政府研发资助如何影响对外直接投资的逆向创新溢出

.....时 省 朱璐瑶 王 帅

57 颠覆性创新在中国的理论探索与政策实践

.....赵 云 张立伟 乔 岳等

68 财政纵向失衡会否抑制技术创新 .....刘亮亮

75 创新资源约束区创新驱动发展形成机制——基于扎根理论

的探索性分析 .....桂黄宝 孙 璞 江 密

## 产业研究

84 基于合著论文的中国高水平国际合作发展趋势研究——

以人工智能领域为例 .....徐家天泽 程如烟 姜桂兴

- 90 关键技术的后发追赶与动态比较——基于人工智能技术生命周期的实证分析.....袁野 吴超楠 陶于祥等
- 101 国家大基金投入对半导体产业创新绩效的作用效果及机制研究.....王宛秋 张若凡 鄢海拓等

企业研究

- 111 高技术企业协同创新与突击创新互动机制研究.....史洁 俞立平 杜维等
- 123 制造企业数字化转型不同阶段的影响因素——基于扎根理论的多案例研究.....林艳 张欣婧
- 133 企业数字平台开放性权衡机制研究——基于企业家双元即兴能力视角.....赵坤 荆林波
- 143 基于扎根理论的科技型企业知识产权证券化风险因素分析.....鲍新中 陈柏彤 王晨铭

研究与探讨

- 155 税收优惠与研发投入动态调整.....粟立钟 张润达 王靖宇等
- 165 合作本位理念下的个人数据安全治理机制研究...茶秋思 丛杭青

国际研究

- 172 美国人工智能发展策略与大国科技竞争格局.....孙璇
- 179 从两极到三强：欧盟人工智能的全球竞争战略分析.....施雯 缪其浩

出版:《中国科技论坛》编辑部  
 地址:北京海淀区玉渊潭南路8号  
 邮政信箱:北京3814信箱  
 邮编:100038  
 电话:010-58884593(编辑部)  
 010-58884595(发行部)  
 电子邮件:zgkjl3814@casted.org.cn  
 出版日期:每月5日  
 印刷:北京科信印刷有限公司  
 发行:北京市报刊发行局  
 国外总发行:中国国际图书贸易集团有限公司

中国标准连续出版物号:  
ISSN 1002-6711  
CN 11-1344/G3

定价:50元

**Publication:**  
 Magazine Office of the  
 Forum on Science and  
 Technology in China

**Address:**  
 No.8 Yuyuantan South Road,  
 Haidian District, Beijing

**P.O.Box:**3814 Beijing P.R.China

**Post Code:**100038

**Telephone:**+86 10 58884593  
 (Editorial Department)  
 +86 10 58884643  
 (Reader Service  
 Department)  
 +86 10 58884595  
 (Issue Department)

**E-mail:**zgkjl3814@casted.org.cn

**Overseas Publishing:**  
 China National Publications  
 Import and Export Corporation

网 址:  
<http://www.casted.org.cn>  
<http://www.zgkjl.org.cn>

版权所有,未经许可不得转载  
(包括网络版权)

# FORUM ON SCIENCE AND TECHNOLOGY IN CHINA

Publication started in Sept. 1985 monthly No. 6 2022 Sum 314

---

- The Evolution and Enlightenment of Science and Technology System in China  
.....Cao Yuan, Tian Zhongxiu, Xiao Yu et al. (1)
- Transformation of Science and Technology Policy from the Perspective of Self-Reliance and  
Self-Improvement; from Catch-up to World-Leading Orientation.....Jia Baoyu, Chen Tao, Liu Li (11)
- The Logic of Income Distribution Reform in Scientific Research Institutions——An Analysis  
Based on System Theory.....Han Fengqin, Chen Yaping(19)
- System Innovation Logic for Supporting New R&D Institutions——Comparing the Institution in  
Shenzhen, Beijing, Nanjing and Shanghai.....Jiang Chun, Li Shihan, Hu Feng et al. (26)
- Research on High-Quality and Rapid Training of Urgently-Needed Agricultural Talents in the New  
Era of China——Analysis of 504 Agricultural Experts Interviews Based on the IPOE Framework  
.....Chen Xinzhong, Guo Guangxia, Zhu Xiaoyan(38)
- How Do Different Types of Government R&D Subsidies Affect the Reverse Innovation Spillovers of OFDI?  
.....Shi Xing, Zhu Luyao, Wang Shuai(47)
- Theoretical Exploration and Policy Practice of Disruptive Innovation in China  
.....Zhao Yun, Zhang Liwei, Qiao Yue et al. (57)
- Whether Vertical Fiscal Imbalance Restrain Technological Innovation or Not.....Liu Liangliang(68)
- The Formation Mechanism of Innovation-Driven Development in Innovation Resource-Constrained  
Areas——An Exploratory Analysis Based on Grounded Theory.....Gui Huangbao, Sun Pu, Jiang Mi(75)
- Research on China's High-Level International Cooperation Development Based on Co-authorship:  
Taking AI Scientific as an Example.....Xu Jiatianze, Cheng Ruyan, Jiang Guixing(84)
- Late Catch-up and Dynamic Comparison of Key Technologies; An Empirical Analysis Based on the  
Life Cycle of Artificial Intelligence.....Yuan Ye, Wu Chaonan, Tao Yuxiang et al. (90)
- Research on the Effect and Mechanism of National Integrated Circuit Industry Investment Fund on  
Semiconductor Industry Innovation Performance.....Wang Wanqiu, Zhang Ruofan, Qie Haituo et al. (101)
- Research on Interaction Mechanism Between Collaborative Innovation and Surprise Innovation  
in High-Tech Enterprises.....Shi Jie, Yu Liping, Du Wei et al. (111)
- Influencing Factors at Different Stages of Manufacturing Enterprises' Digital Transformation——  
Multiple Case Studies Based on Grounded Theory.....Lin Yan, Zhang Xinjing(123)
- Research on Trade-off Mechanism of Enterprise Digital Platform Openness——From the  
Perspective of Entrepreneurial Dual Improvisation.....Zhao Kun, Jing Linbo(133)
- Risk Analysis of Intellectual Property Securitization Financing for Technological Enterprises  
Based on Grounded theory.....Bao Xinzhong, Chen Baitong, Wang Chenming(143)
- Tax Incentives and Dynamic Adjustment of Investment in Research and Development  
.....Su Lizhong, Zhang Runda, Wang Jingyu et al. (155)
- Research on the Governance Mechanism of Personal Data Security Under the Collaboration-  
Oriented Concept.....Cha Qiusi, Cong Hangqing(165)
- Development Strategy of American Artificial Intelligence and Competition Pattern of Science  
and Technology in Big Countries.....Sun xuan(172)
- From Bi-polar to Tripartite; Analysis of EU's Strategy to Survive in Global Artificial Intelligence  
Competition.....Shi Wen, Miao Qihao(179)