



清华大学开放科学支持计划：缘起与进展

Open Science Supporting Initiative of THU: Origins and progress

Tianfang Dou

Tsinghua University Library

2024, Beijing, WAL



01

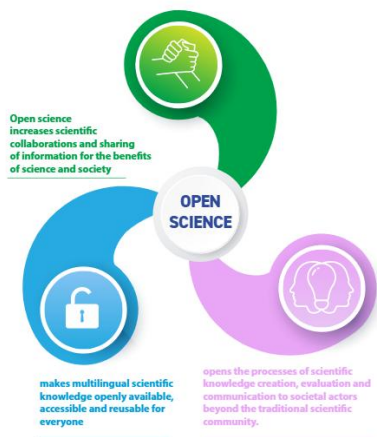
Why we Launch OSTP?



清华大学
Tsinghua University

WHY WE LAUNCH OSPI

使命驱动—Mission Driven



清华大学

Tsinghua University

清华学者库



2021年，UNESCO发布《开放科学建议书》
More Open, More Sustainable, More Equitable

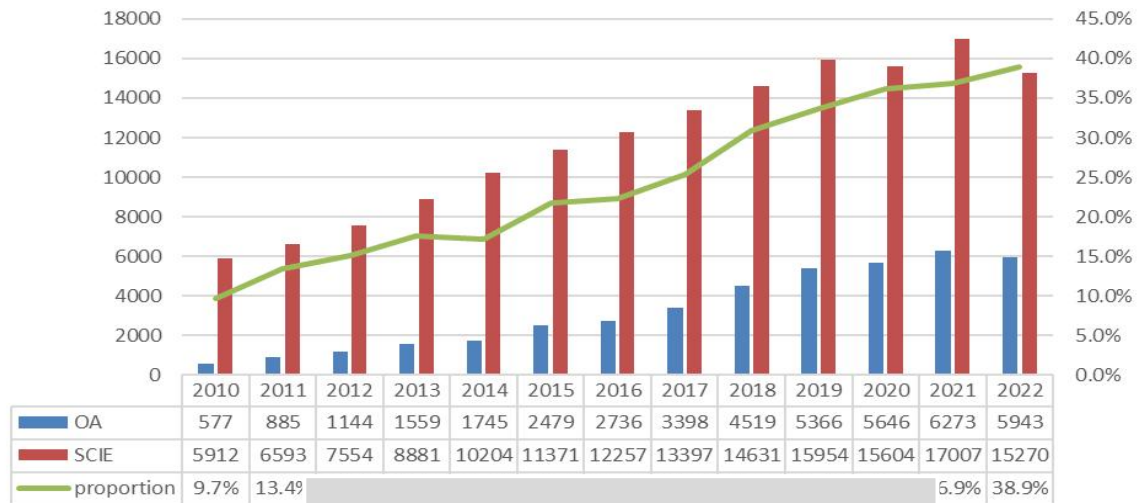
建设更开放、更融合、更有韧性的大学
More Open, More Integrative, More Resilient



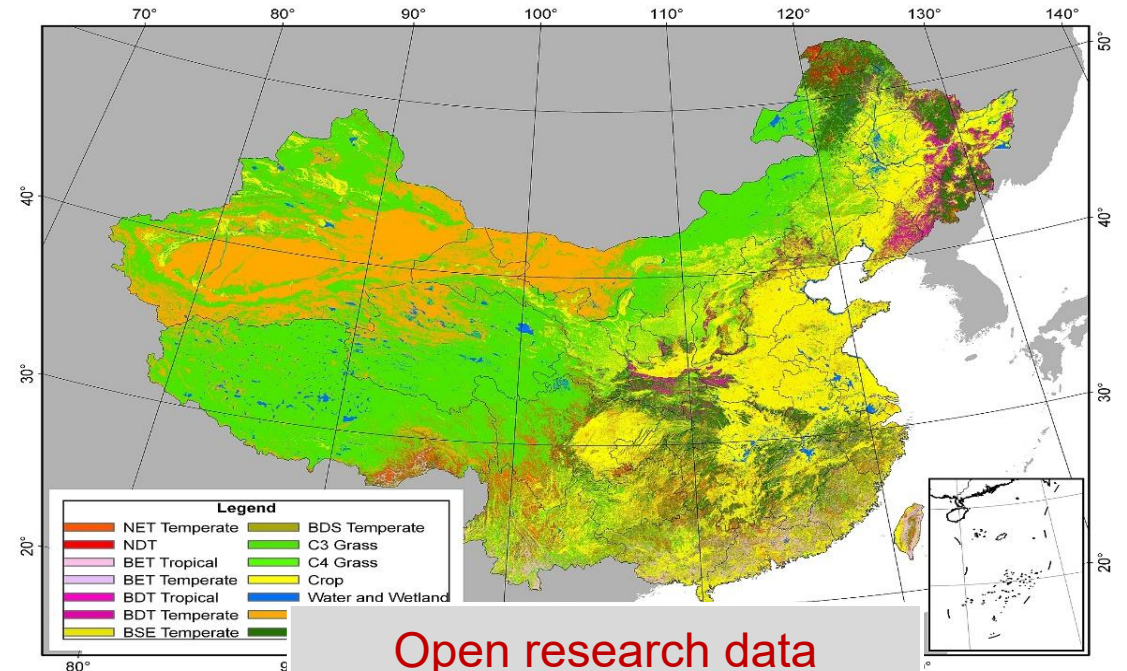
需求驱动—Demand Driven

Open Science Is a Paradigm **within the Scientific Community** that Promotes Transparency, Collaboration, and Accessibility in Research

Publication trends of Tsinghua University
(SCIE 2010-2022)



Open scientific publications



Open research data



政策驱动—Policy Driven

MOE and MOST jointly released a policy to supervise the APCs funded by government.

【国科发监〔2020〕37号】

【教科技〔2020〕2号】

加强对**国家科技计划项目支持论文**的管理，包括：鼓励师生发表**三类高质量论文**，避免在“黑名单”“预警期刊”上发表论文，审核**论文发表期刊范围和发表支出 (APCs)** 等事项。

Instruments share requirements by MOE

清华大学 仪器共享服务平台

仪器/测试项目/实验室名/管理员姓名

首页 平台成员 信息发布 开放仪器 技术资料 问答咨询

平台成员 (开放)

校级平台			
蛋白质研究中心(218台)	微纳加工平台(207台)	生物学测试中心(81台)	分析中心(62台)
药学技术中心(62台)	材料中心 (54台)	动物中心(42台)	电磁实验中心(34台)
水气跨介质研究中心(28台)	高性能计算平台(7台)	影像中心(4台)	非人灵长类研究中心小动物核磁
暗物质实验平台(0台)	中国经济社会数据中心(0台)		
院系平台			
材料学院(131台)	化工系(89台)	环境学院(87台)	机械系(78台)
生命学院(74台)	物理系(73台)	电子系(71台)	医学院(59台)
核研院(55台)	水利系(54台)	化学系(52台)	汽车系(51台)
精仪系(44台)	交叉信息研究院(39台)	热能系(35台)	工物系(32台)
浙江研究院(24台)	航院(20台)	电机系(19台)	药学院(12台)



开放科学支持计划——open Science supporting Initiative

Tsinghua University Launched 2030 Innovation Action Plan, and the Open Science Supporting Initiative included.

Goals

- Accelerate the speed of knowledge dissemination
- Participate in the construction of an scholarly communication ecosystem
- Enhance the academic impact of the university



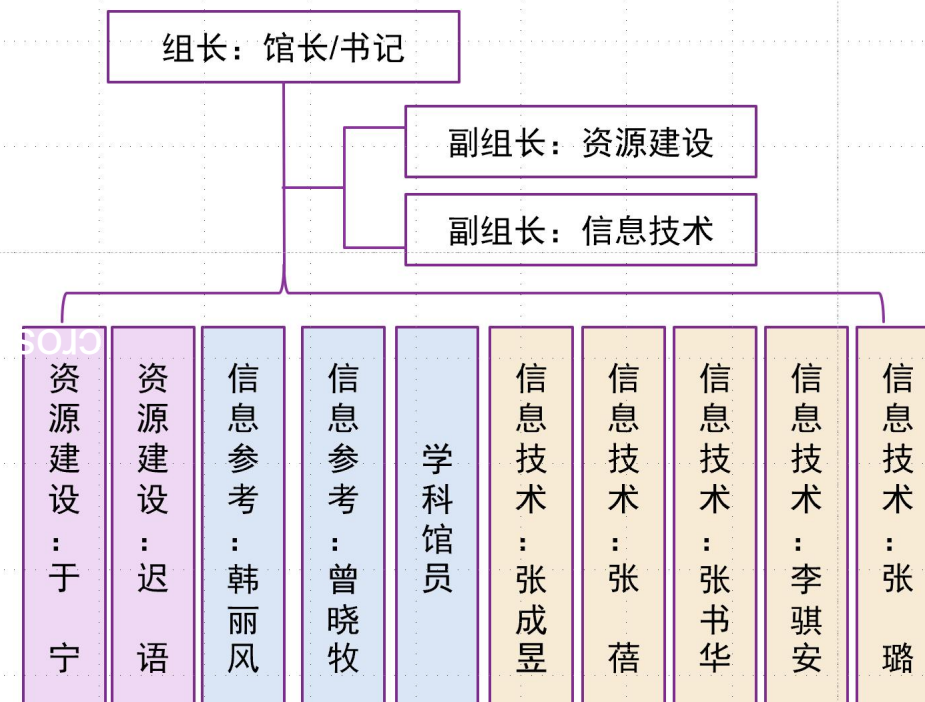
How We Promote OSTP



组织管理——Task Force

Cross-departmental collaboration within University

Cross-departmental collaboration within Library





工作机制——Working mechanism

明确阶段性任务

例会工作机制

评估&动态调整阶段性目标

● 建立工作机制

- ✓ 每学期2次例会
- ✓ 总结反思、明确方向及阶段性任务
- ✓ 组长或副组长召集

● 制定行动领域

- ✓ 开放出版转换及服务推广 (资源建设部)
- ✓ 开放科学政策研究 (全体, 秘书运营)
- ✓ 开放科学平台建设 (信息技术部)
- ✓ 开放科学素养教育 (信息参考部)

● 阶段性任务

- ✓ 完善工作机制 (OpenSign
thuos-lib)
- ✓ 开放出版转换及宣传推广
- ✓ 开放科学基础设施建设
- ✓ 加入开放科学促进联合体



开放出版转换 Transformation Agreement

ACM (美国计算机协会)

IWA (国际水协会)

CUP (剑桥大学出版社)

IEEE (电气电子工程师学会)

MDPI (多学科数字出版机构)

SCOAP3

ArXiv

政策研究与推广 Keep up with the Trend

政策追踪

建立推广渠道

OpenSign微信

图书馆主页

开放平台建设 Platform

开放资源服务平台

数据采集

平台建设

论文发布管理服务系统

开放数据平台调研

现状调研

需求分析

调查问卷

素养教育 Literacy

培训讲座

咨询联络

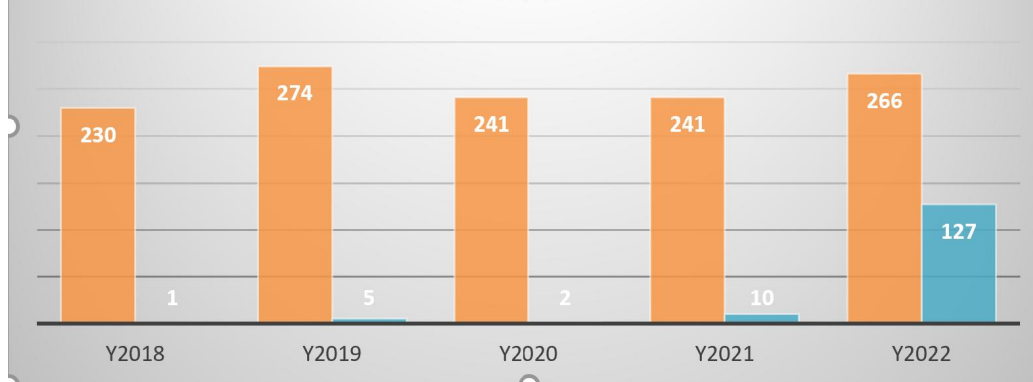
专题培训



We Signed Transformation Agreement with ACM

清华大学通讯作者可以OA形式在ACM发文

2018-2022年ACM清华大学通讯作者发文数量



- ✓ sz.tsinghua.edu.cn (清华大学深圳国际研究生院)
- ✓ mail.tsinghua.edu.cn (员工电子邮件域名)
- ✓ mails.tsinghua.edu.cn (学生电子邮件域名)
- ✓ tsinghua.edu.cn (员工电子邮件域名)
- ✓ air.tsinghua.edu.cn (清华大学AI工业研究所)

High Level Counts

Chosen eRights Forms

版权转让

Copyright Papers: 219

PR Papers: 127

机构付费OA

Chosen Licenses

只有机构付费才可以选择CC协议

CC-BY: 108

CC-BY-ND: 0

CC-BY-NC-ND: 2

No CC-BY: 5

ACM独家版权

License Papers: 65

CC-BY-NC: 3

CC-BY-SA: 2

CC-BY-NC-SA: 7

Paper Type Totals

Interview: 0

Research Article: 361

Short Paper: 35

Technical Note: 0

Note: 1

Review Article: 0

Survey: 8

Tutorial: 2

Match Types 匹配到的清华ACM发文, 通讯作者+其它作者共411

Corresponding: 266

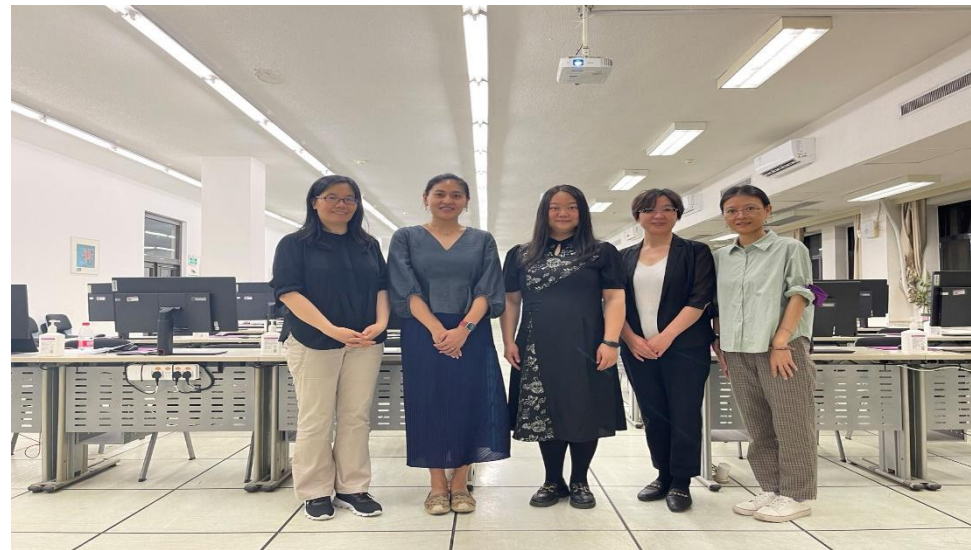
Secondary: 145



清华大学
Tsinghua University

MAIN TASKS-LITERACY

We worked together with some publishers to discuss open science issues with our Patrons





INFRASTRUCTURE



3772



38.5万



12.6万

Visitors 1000万

清华学者
OA成果
汇总与展示

OA文章
标识

清华大学 学者库

当前位置: 首页 > 学者列表 > 医学院 > 张林琦

合作者 (752) TOP 5

- Shi, Xuanling
- Wang, Xinquan
- Ho, DD
- Chen, Zhiwei
- Zuo, Teng

合作者关系 Partner relationship

发文可能采用名字

- 张林琦
- Zhang, Linqi
- Zhang, LQ
- Zhang, LinQi
- Zhang, Lin Qi
- Zhang LinQi
- ZHANG, LQ

关键词

- GENOTYPE
- INFECTIOUS DISEASE
- SUBTYPE B1
- ZIKA VIRUS
- CHINA MERS-COV
- INFLUENZA HIV
- COVID-19 SHIV
- VACCINE v2
- HCV
- SIV HIV-1 艾滋病
- NEUTRALIZING ANTIBODY
- MONOCLONAL ANTIBODY
- HEPATITIS C VIRUS

张林琦 医学院

ORCID:
ResearcherID:
论文: 135 篇 | 合作者: 752
WOS核心合集引用: 9674 | H 因子: 39
WOS收录: 105 | CNKI收录: 12
SCOPUS收录: 92
更多成果:

清华大学教授、艾滋病研究综合研究中心主任，博士生导师。张林琦教授发表SCI论文100余篇，在爱思唯尔 (Elsevier) 2016和2017年中国高被引学者榜单中，名列感染和免疫第一名...

个人主页

论文: 135 篇

1. Two immunogenic recombinant protein vaccine candidates showed disparate protective efficacy against Zika virus infection in rhesus macaques

Yang, RH, Liu, QW, P [More...](#)

VACCINE[0264-410X], Published 2021, Volume 39, Issue 6, Pages 915-925

收录情况: **WOS SCOPUS**

WOS核心合集引用: 1 影响因子: 3.641 期刊收录情况 [找找相关文章](#)

2. Structural basis for bivalent binding and inhibition of SARS-CoV-2 infection by human potent neutralizing antibodies

Yan, RH, Wang, RK, J [More...](#)

CELL RESEARCH[1001-0602], Published 2021, Volume 31, Issue 5, Pages 517-525

收录情况: **WOS SCOPUS**

WOS核心合集引用: 26 影响因子: 25.617 期刊收录情况 [找找相关文章](#)

3. Surging publications on the COVID-19 pandemic

Li, GQ, Zhou, YZ, Ji [More...](#)

CLINICAL MICROBIOLOGY AND INFECTION[1198-743X], Published 2021, Volume 27, Issue 3, Pages 484-486

收录情况: **WOS SCOPUS**

WOS核心合集引用: 1 影响因子: 8.067 期刊收录情况 [找找相关文章](#)

nature communications

张林琦老师的OA文章

Explore content About the journal Publish with us

[nature](#) > [nature communications](#) > [articles](#) > [article](#)

Article | [Open Access](#) | [Published: 11 January 2021](#)

Antibody neutralization of SARS-CoV-2 through ACE2 receptor mimicry

Cell Research

Explore content About the journal Publish with us

[nature](#) > [cell research](#) > [articles](#) > [article](#)

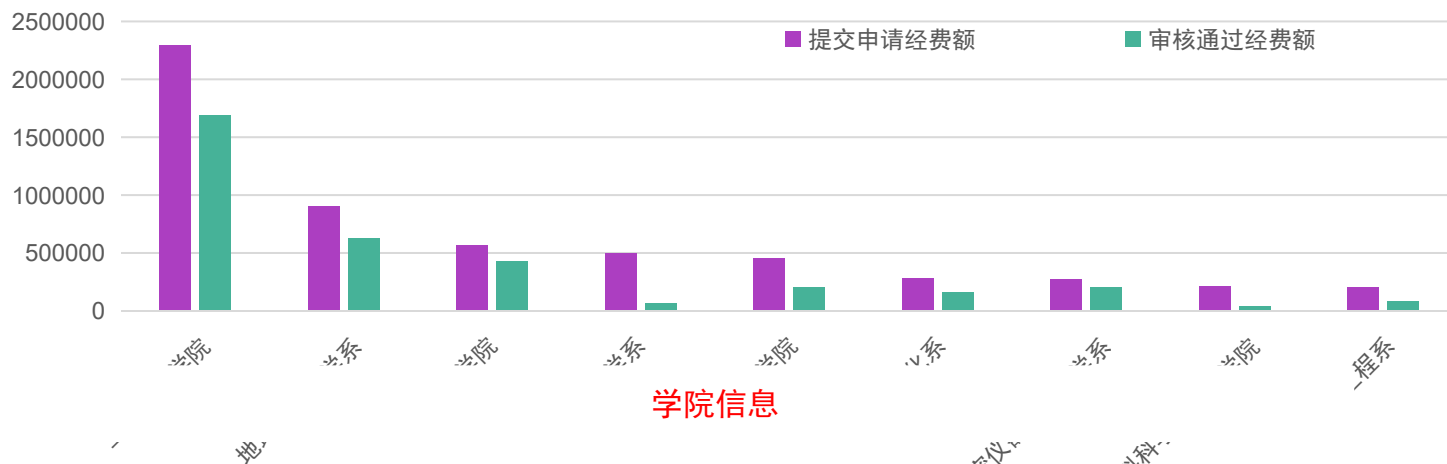
Article | [Open Access](#) | [Published: 17 March 2021](#)

Structural basis for bivalent binding and inhibition of SARS-CoV-2 infection by human potent neutralizing antibodies

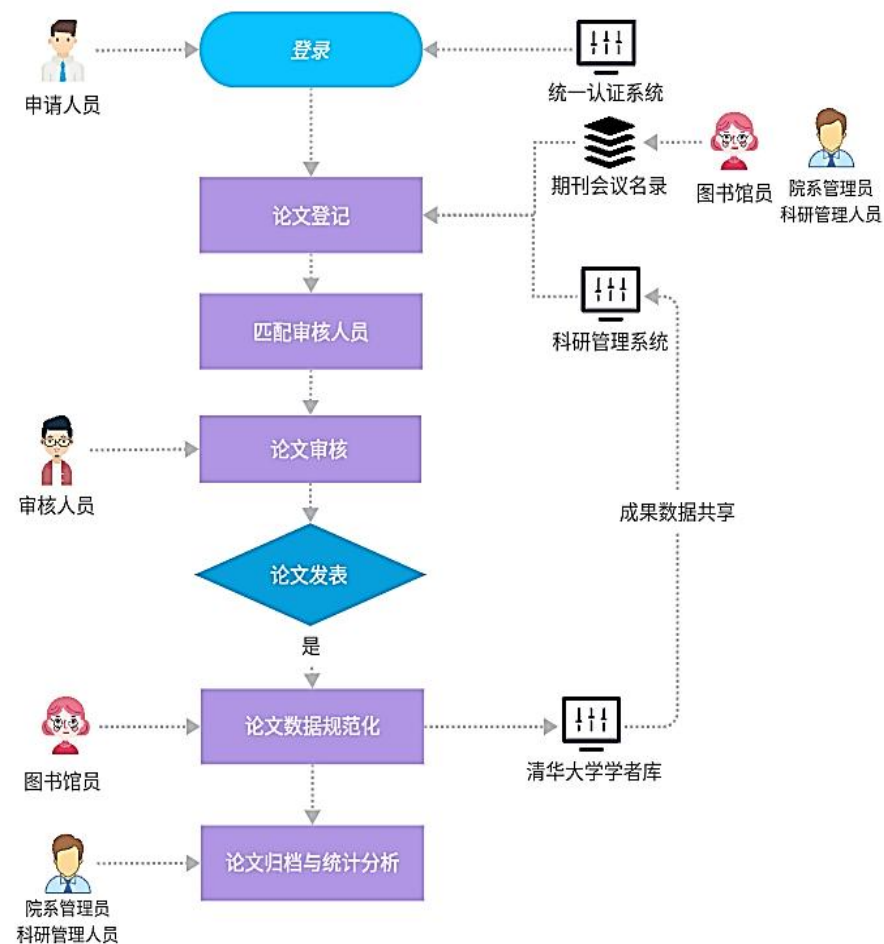
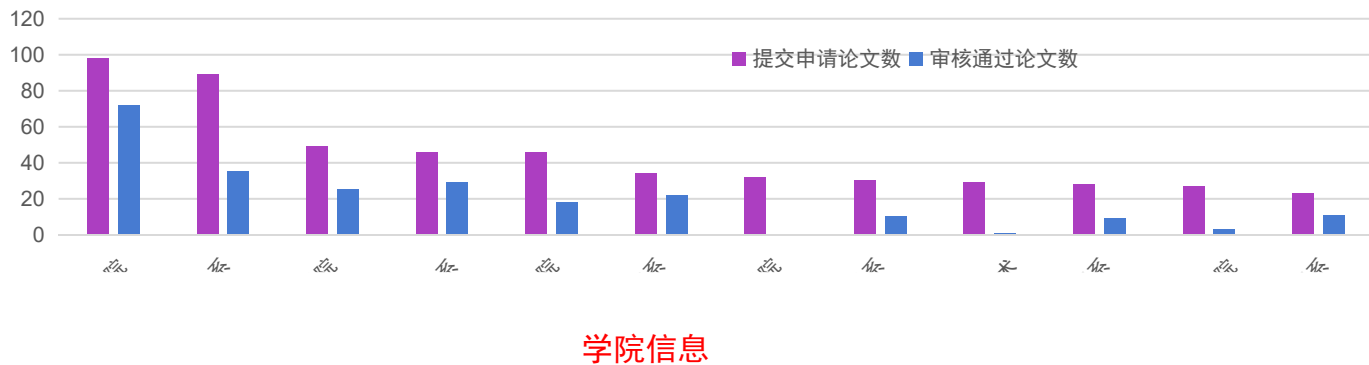


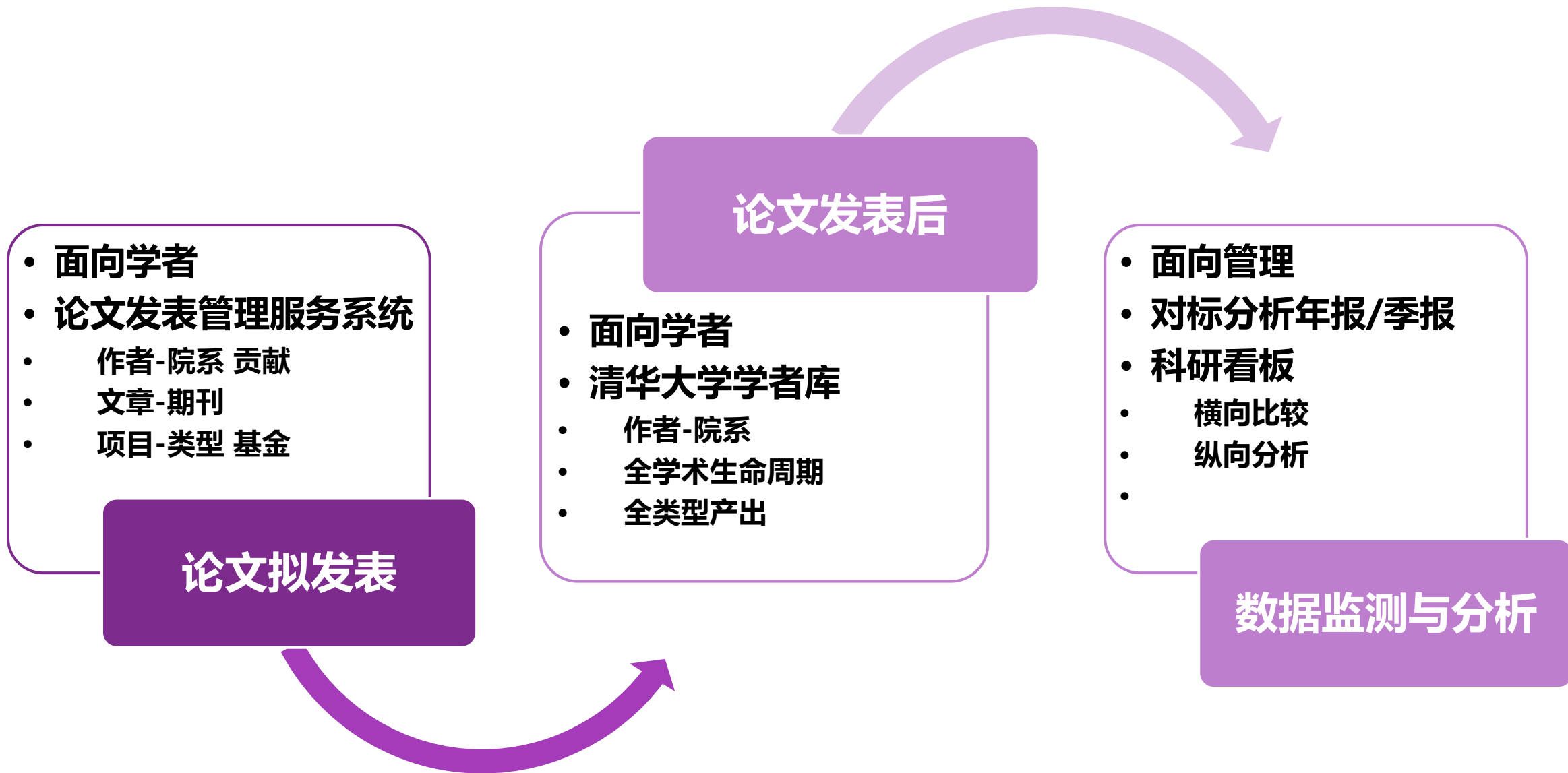
Monitoring APCs funded by government Grant

本年度各单位论文经费审核统计



本年度各单位论文审核统计表







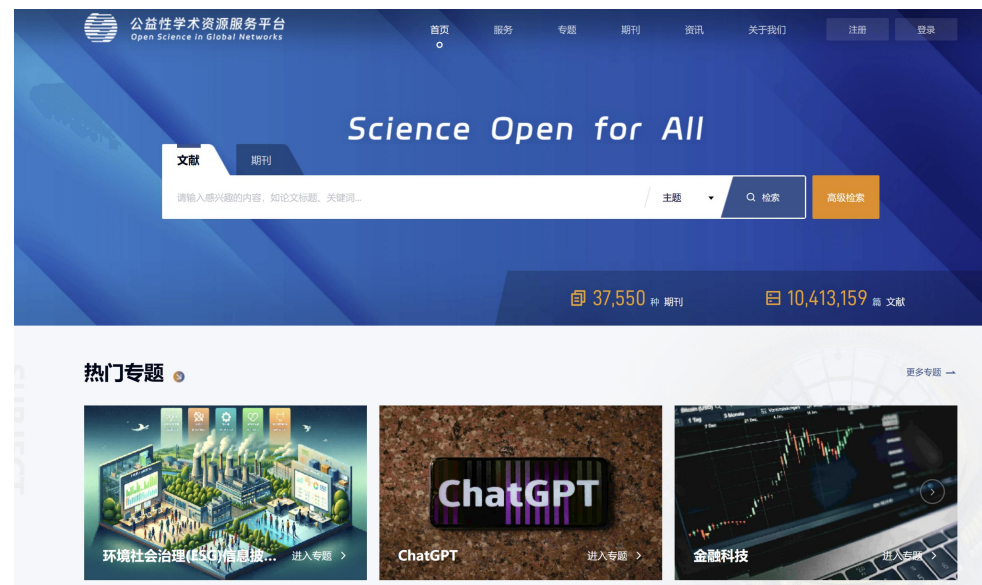
清华大学
Tsinghua University

INFRASTRUCTURE

We Released OpenSign Platform Beta version in 2022



Make Tsinghua University's research output accessible to the society for sustainable development and social innovation



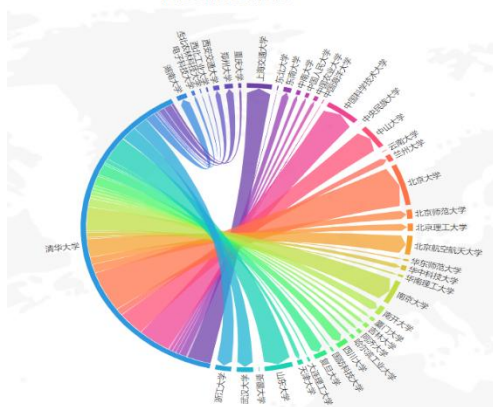
OpenSign(Open Science in Global Networks)

high-quality

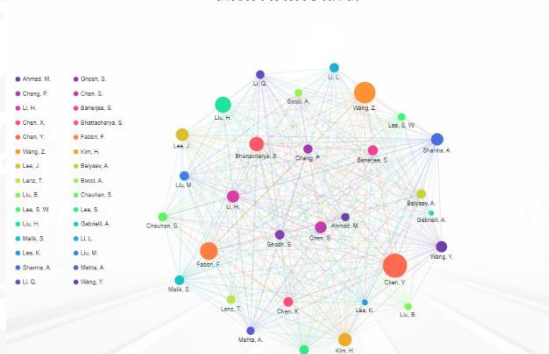
not-for-profit

cost-free

机构合作网络分析



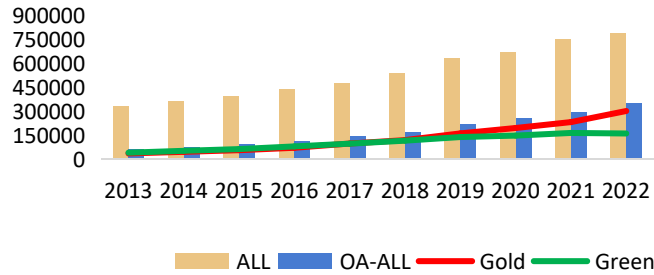
机构作者合作网络分析





中国

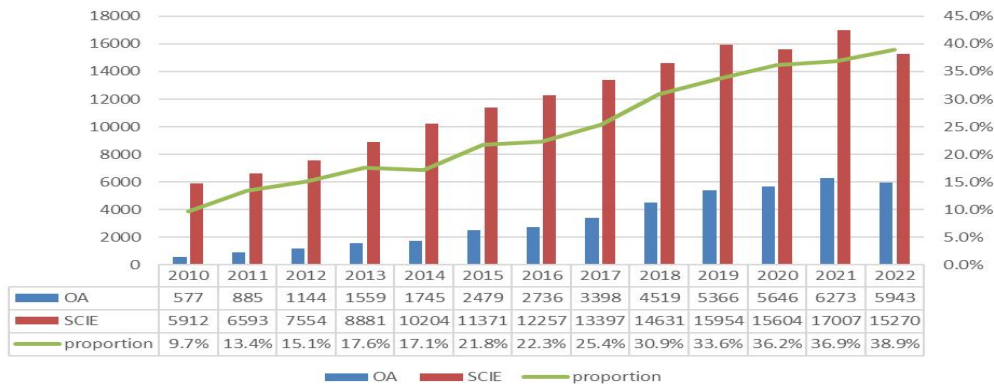
数据源: Web of Science核心合集



Published OA papers located at multiple platforms

- Academic Publishing Platform
- Preprint Platform
- Institutional Repository
-

Publication trends of Tsinghua University (SCIE 2010-2022)



Difficult to discover OA papers for small and medium-sized universities in western China

- Lack of discovery skills
- Lack of discovery tools
-

We built OpenSign to

- integrate officially published OA papers in China and provide services to society
- help universities or societal actors in the western region to quickly discover and access high-quality academic publications



Collaborating with Publishers or A&I Platforms

- Web Of Science (WOS)
- China National Knowledge Infrastructure (CNKI)
-

Collecting and Reorganizing Metadata via APIs

- Access Full-text by Digital Object Identify (DOI)
- Provide customized services for different Universities

Coverage

----OA articles published by TOP 150 universities in the worldwide, Double-world class project universities in China

**37,550
Journals**

**10.4 million
OA articles**

**OA in Chinese
4.60 million
44.2%**

**OA in English
5.80 million
55.8%**



Next Steps



Next semester

1. Open Science outreaching
2. Re-evaluate the benefits and problems of TA
3. OA+AI
4. Release new version of OpenSign





清华大学
Tsinghua University

SUPPORT MAJOR PROJECT



气候变化与碳中和国际合作联合行动

International Joint Mission on Climate Change and Carbon Neutrality

🏠 首页 / 开放获取



碳足迹核算



碳捕集、利用与封存 (CCUS)



环境社会治理 (ESG) 信息披露制度



清华大学
Tsinghua University

谢 谢!



开放科学
OpenSign微信公众号