

# Current State of OA Transformation in China

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2025.02.06

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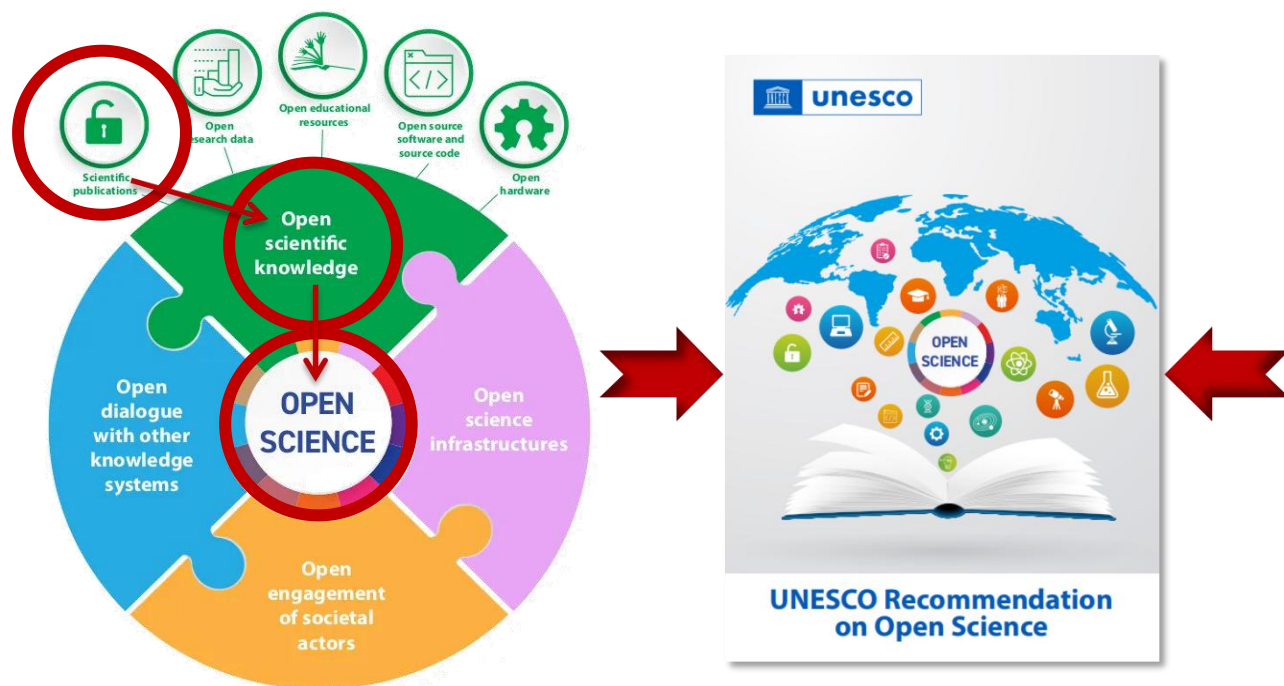
**III. Challenges and Reflections in OA Transformation**





# 1. China's Initiatives in Promoting OA

■ In 2021, China actively promotes and supports the release of the *UNESCO Recommendation on Open Science*, and explicitly stated "**promoting the development of Open Science**" in the *S&T Progress Law*.



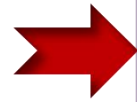
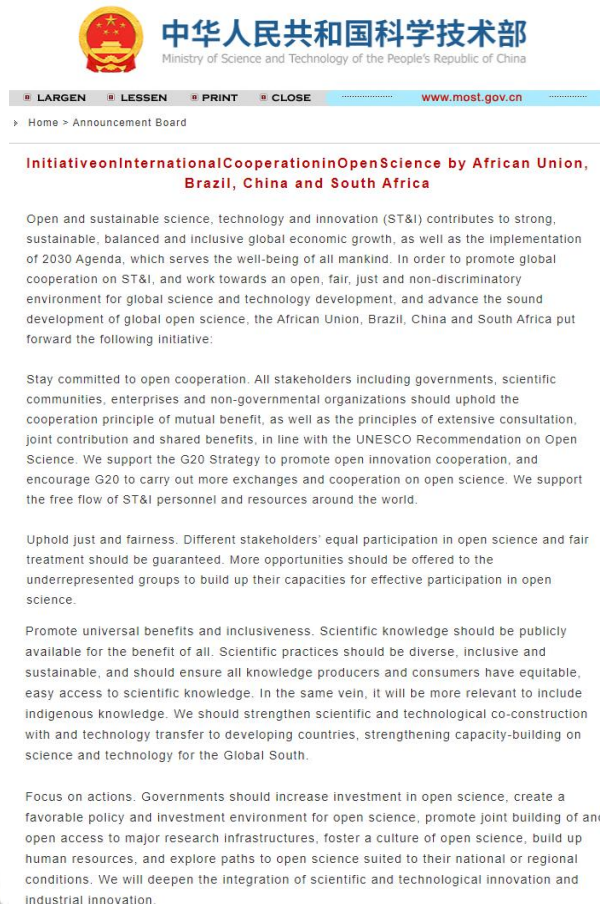
## Article 95

*The state shall strengthen the development of academic journals, improve the mechanisms for the exchange of research papers and scientific and technological information, promote the development of Open Science, and facilitate the exchange and dissemination of scientific and technological knowledge.*

**Law of the People's Republic of China on Scientific and Technological Progress (2021 Revision)**

# 1. China's Initiatives in Promoting OA

■ Chinese government advances the sound development of Open Science globally, and jointly **launched the *Initiative on International Cooperation in Open Science*** in 2024.



➤ **Uphold just and fairness**  
*Scientific knowledge should be publicly available for the benefit of all. Scientific practices should be diverse, inclusive and sustainable, and should ensure all knowledge producers and consumers have equitable, easy access to scientific knowledge.*

**China jointly launched the Initiative on International Cooperation in Open Science in 2024**



# 1. China's Initiatives in Promoting OA

■ In 2024, the 758th session of the Xiangshan Science Conferences, themed “Open Science Trends and Impacts” was successfully held in Beijing. The conference released the *Xiangshan Initiative on Implementing Open Science*.



The 758th Xiangshan Science Conferences—Open Science Trends and Impacts on Nov 4–5, 2024.

科学通报

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关于实施开放科学的香山倡议

*3. Support Maximum Openness of Publicly Funded Research Outputs, and Open Science Should be Led by the Academic Community.*

Xiangshan Initiative on Implementing Open Science on Nov 14, 2024



# 1. China's Initiatives in Promoting OA

■ By the end of 2024, with the support of Chinese government ministries, **80 major scientific research infrastructures**, **49,000 large scientific research instruments** and **20 national scientific data centers** have been made available for open sharing.

 重大科研基础设施和大型科研仪器国家网络管理平台

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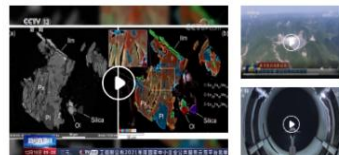
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国家科学数据中心

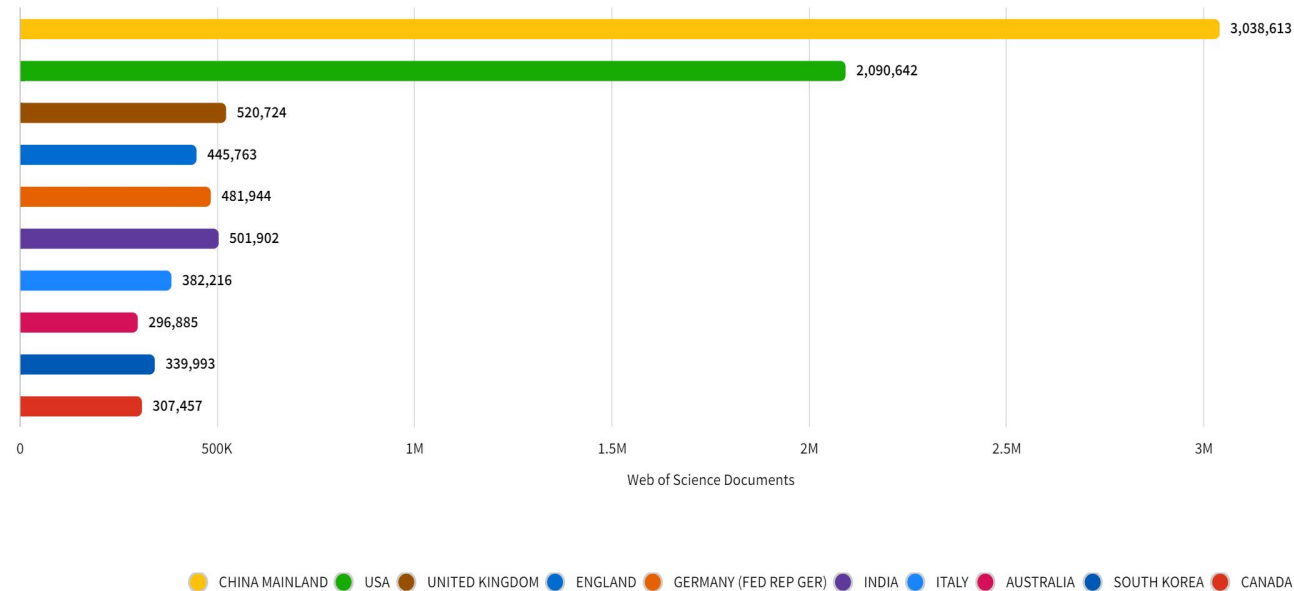


National Network Management Platform for Major Scientific Research Infrastructures and Large Scientific Instruments

National Scientific Data Centres

# 1. China's Initiatives in Promoting OA

- Since 2019, China has become the country with **the highest number** of published articles worldwide, reflecting the active participation of Chinese scholars in global academic communications.
- From 2019 to 2023, the number of OA articles published by Chinese corresponding authors has **doubled**.



Top 10 Countries by Number of Articles in 2023 ( corresponding author )

Time Period: 2019 to 2023, Schema: Web of Science, Author Position (2008-2024): Corresponding, Location: CHINA MAINLAND, Retrieved 24 Jan 2025.



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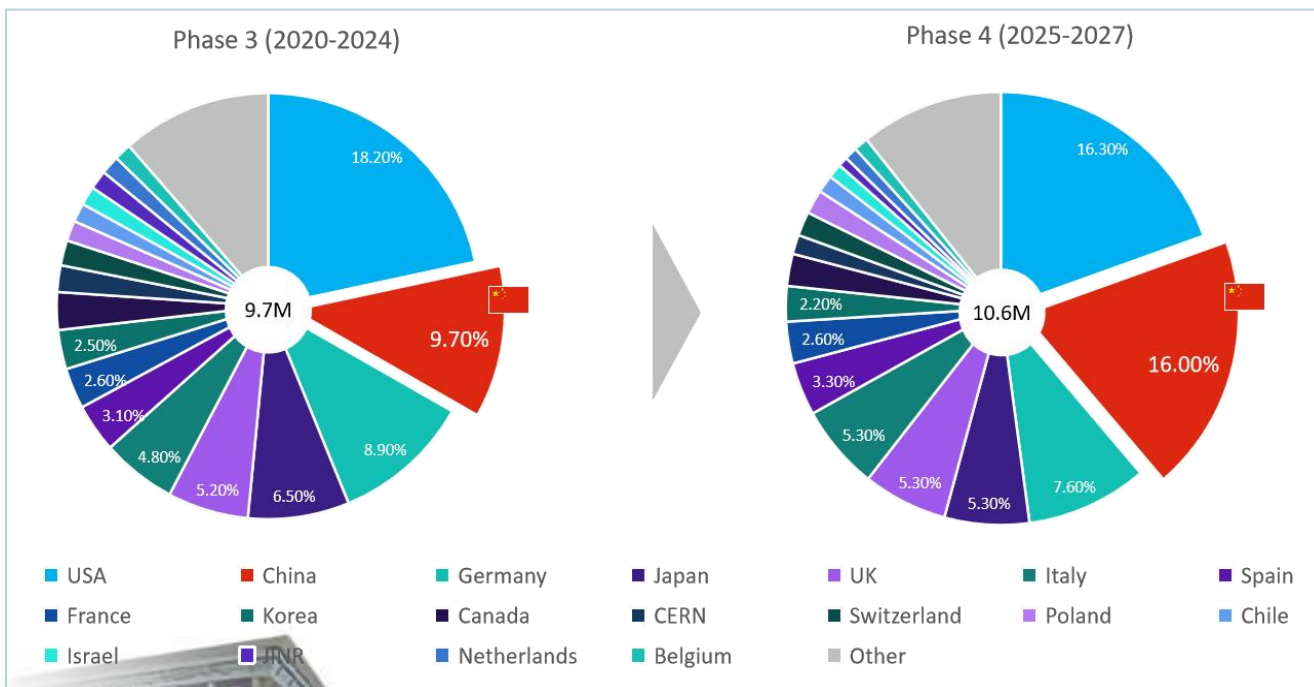




## 2. Progress of OA Transformation in Chinese Institutions

### 2.1 China actively participates in international OA transformation practices

- Since 2014, the National Science and Technology Library (NSTL) has represented China in the international OA transformation cooperation, **SCOAP<sup>3</sup>**.
- China is both a **beneficiary and a contributor** to SCOAP<sup>3</sup>.
- Under the organization of NSTL, **19 Chinese institutions** have participated in SCOAP<sup>3</sup> for Books Initiative.



Supporting Chinese Institutions Engaged in the SCOAP <sup>3</sup> for Books Initiative	
National Science and Technology Library	Peking University Library
National Science Library, Chinese Academy of Sciences	Tsinghua University Library
University of Chinese Academy of Science Library	Shanghai Jiao Tong University Library
Institute of High Energy Physics, Chinese Academy of Sciences	Fudan University Library
Shanghai Institute of Applied Physics, Chinese Academy of Sciences	Zhejiang University Library
Shanghai Advanced Research Institute, Chinese Academy of Sciences	Nanjing Normal University
Library of University of Science and Technology of China	Nanjing University Library
Sichuan University Library	Wuhan University Library

Cite:Hohenegger, Stefan. *SCOAP<sup>3</sup> and China: Collaborating for Sustainable and Equitable Open Access*. 2024 SCOAP<sup>3</sup> Collaboration .

## 2. Progress of OA Transformation in Chinese Institutions

### 2.2 Chinese institutions adopted multiple methods to promote OA transformation

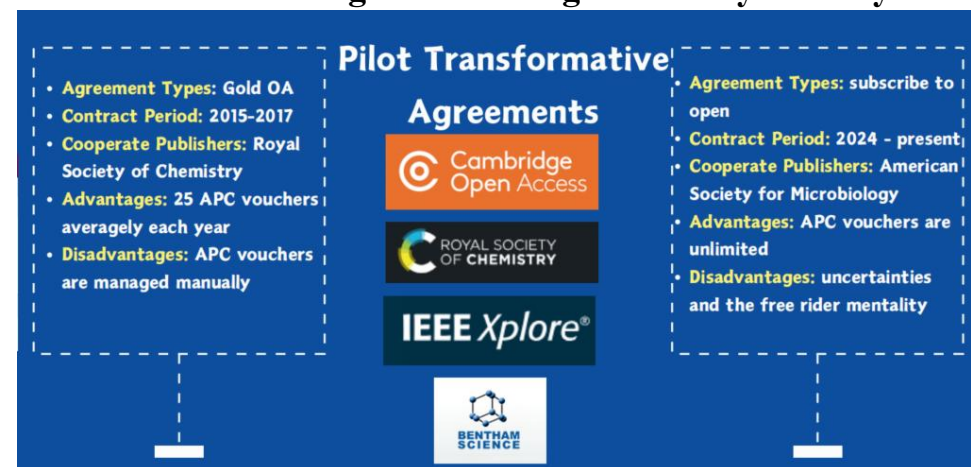
- collaborate with various publishers, using OA transformation as a lever to **reshape the literature acquisition model**



Case: National Science Library, Chinese Academy of Sciences (NSLC)



Case: Shanghai Jiao Tong University Library



Case: Xiamen University Libraries [www.las.ac.cn](http://www.las.ac.cn)

# 2. Progress of OA Transformation in Chinese Institutions

## 2.2 Chinese institutions adopted various methods to promote OA transformation

■ BEFORE——analyze the publication data across multiple dimensions and compare with past subscription costs to assess the effectiveness of OA transformation

Calculation of OA transformation cost for the DRAA Consortium & Cambridge Journals in 2023\*

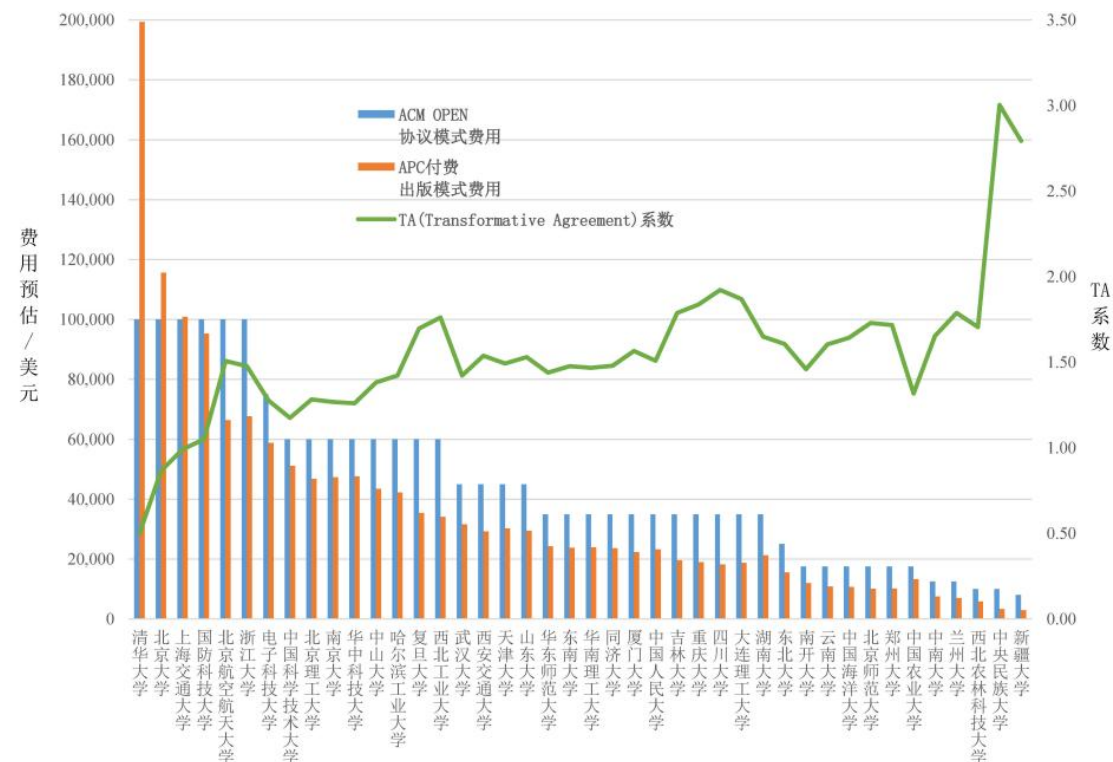
表 6 2023 年度剑桥期刊 DRAA 集团费用测算

集团用户参与与转换比例	纯阅读模式(涨幅 2%)		阅读和出版模式(涨幅 8%)		集团费用(万英镑)	涨幅(%)
	用户数	费用(万英镑)	用户数	费用(万英镑)		
20%	48	90.66	12	24	114.66	3.2
30%	42	79.33	18	36	115.32	3.8
40%	36	67.99	24	48	115.99	4.4
50%	30	56.66	30	59.99	116.66	5.0
60%	24	45.33	36	71.99	117.32	5.6
70%	18	34.00	42	83.99	117.99	6.2
80%	12	22.66	48	95.99	118.65	6.8
90%	6	11.33	54	107.99	119.32	7.4
100%	0	0.00	60	119.99	119.99	8.0

表 7 2023 年度剑桥期刊 DRAA 集团免费开放获取出版/转换额度测算

免费开放获取出版或转换文章数量	订阅费占比							
	70%	60%	50%	40%	30%	20%	10%	0%
20%	36	48	60	73	85	97	109	121
30%	54	73	91	109	127	145	163	181
40%	73	97	121	145	169	193	218	242
50%	91	121	151	181	212	242	272	302
60%	109	145	181	218	254	290	326	363
70%	127	169	212	254	296	339	381	423
80%	145	193	242	290	339	387	435	484
90%	163	218	272	326	381	435	490	544
100%	181	242	302	363	423	484	544	604

Calculation of OA transformation cost for Chinese top universities & ACM Database\*\*



\*Cite: CHEN Juan. Research and Inspiration of the Cambridge University Press's Open Access Publishing and Transformative Case. Journal of Academic Libraries. 2023,41(01):61-69

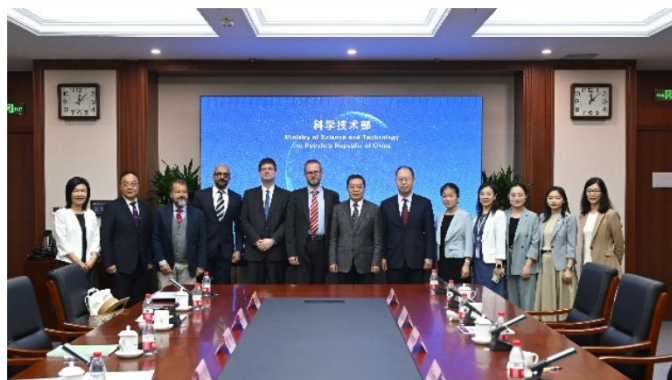
\*\*HAN Zijng, YAN Qinyng, TIAN Ji. Game Analysis of Database Purchase Prices Based on Open Access Transformation Agreements: A Case Study of the ACM OPEN Model [J]. Journal of University Libraries in China, 2022, 40(05): 48-57..



## 2. Progress of OA Transformation in Chinese Institutions

### 2.2 Chinese institutions adopted various methods to promote OA transformation

■ AFTER——carry out diverse supporting measures to safeguard the implementation of OA transformation



SCOAP<sup>3</sup> delegation's visit to China



OA Specialist Training



OA Publishing Guide



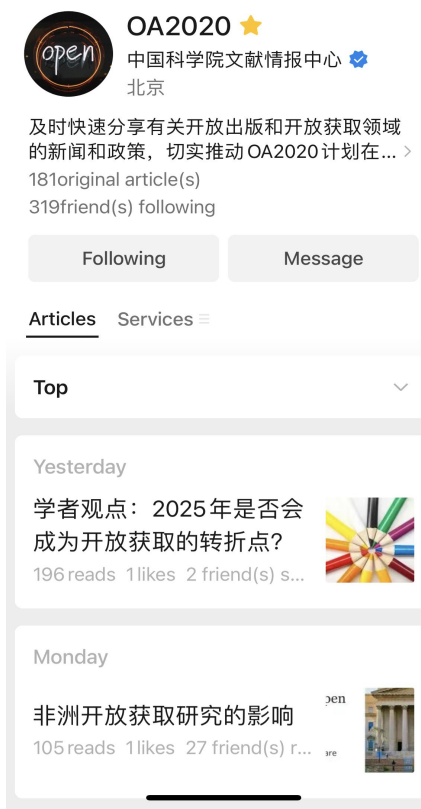
SCOAP<sup>3</sup> Specialist Seminar



OA Seminar on B17



OA Training Webinars



OA-related news

## 2. Progress of OA Transformation in Chinese Institutions

### 2.2 Chinese institutions adopted various methods to promote OA transformation

■ BESIDES——implement a variety of complementary measures to accelerate the OA transformation

Partner with OA publisher to broaden OA collaboration



In 2024, NSTL reached the **first full OA cooperation agreement** with Frontiers in China

Aggregate and share the publicly funded OA articles to enhance accessibility



In 2024, National Natural Science Foundation of China(NSFC) launched the **Open Access Repository(OAR)**

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**III. Challenges and Reflections in OA Transformation**





### 3.Challenges and Reflections in OA Transformation

#### 3.1 In Terms of OA transformation's Costs

- We are facing the challenge of rising APCs and subscription fees simultaneously.



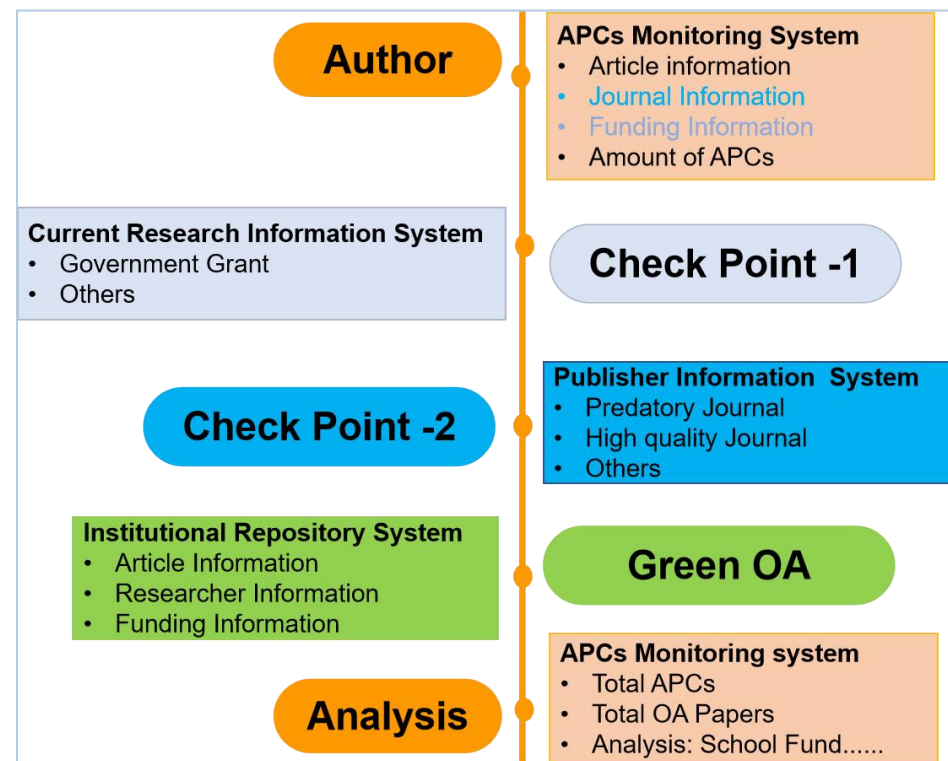
- We insist that the costs of OA transition should be **fair and reasonable**.
  - ✓ Detail OA and non-OA ratios & annual changes for fair pricing.
  - ✓ OA Transformation: a means with clear goals, not an endless process.
  - ✓ Oppose per-article APC & one-size-fits-all pricing; consider global differences for fair pricing.



# 3.Challenges and Reflections in OA Transformation

## 3.2 In Terms of OA transformation's Integrity

- The expansion of OA publishing has created concerns about academic quality
- We propose that research institutions **manage** OA articles to ensure the quality and dissemination value of publicly funded research



Tsinghua University Monitoring APCs Funded by Government Grant

# 3.Challenges and Reflections in OA Transformation

## 3.3 In Terms of OA transformation's **Original Intentions**

- Publishers' excessive profit-seeking has undermined the scientific community's control over academic communication.
- We advocate for more **community-led initiatives** and greater support for public platforms, institutional repositories and preprints, to boost the autonomy and diversity of scholarly communication.

PubScholar——NSLC

The screenshot shows the PubScholar website with a dark blue header and a light blue main area. The header includes navigation links like Home, Resources, Communities, Terms, and About, along with an English language selector and a Sign In button. The main content area features the PubScholar logo and tagline 'Public Academic Resources, Serving Scholar Innovation'. Below this is a search bar with a dropdown menu for 'Topic' and a search button. A statistics bar at the bottom lists various academic resources: 88,306,726 Journal Articles, 1,077,552 Dissertations, 3,130,867 Preprints, 88,121,576 Patents, 10,393 Information, 583,864 Datasets, and 123,759 Books. At the very bottom, it lists 'Academic Resources of CAS' with icons for 358 Journals, 62,769 Books, 114 Repositories, 35 Data Centers, 39,470 Preprints, and 39,470 Dissertations.

Excellence Action Plan for China STM Journals —— China Association for Science and Technology

The screenshot shows the website of the China Association for Science and Technology (CAST). The header features the organization's logo and name in Chinese and English. Below the header is a navigation menu with links for 首页 (Home), 全景科协 (All-science Association), 人才 (Talent), 科创 (Science and Technology Innovation), 科普 (Science Popularization), 智库 (Think Tank), 党建 (Party Building), 数据 (Data), and 新闻 (News). The main content area displays a news article titled '中国科技期刊卓越行动计划二期入选项目公布' (Announcement of the Second Round of Selected Projects of the China Science and Technology Journal Excellence Action Plan). The article includes the publication date '2024.11.28' and social media sharing options. The text of the article discusses the selection process and the number of projects chosen.

SciOpen——Tsinghua University Press

The screenshot shows the SciOpen website, a publishing platform of Tsinghua University Press. The header includes navigation links for All Journals, Webinars, News, Services, and About Us, along with a search bar and a Sign up button. The main content area features a large banner with the text 'Empowering Open and Trusted Research' and a sub-headline 'As a publishing platform of Tsinghua University Press, SciOpen provides free access to an online collection of journals across diverse academic disciplines and serves to meet the research needs of scientific communities.' Below the banner is a statistics bar showing 143 Journals, 39400+ Articles, 10900+ Supplementary Materials, and 3000+ Monthly New Articles. The 'Featured Journals' section lists several journals, including Friction, Carbon Future, and Energy and Climate Management.



# Push forward, don't stand still.

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