



10TH ANNIVERSARY OF THE BERLIN DECLARATION

Berlin Open Access Conference · 19–20 November 2013 in Berlin, Germany



Development of Open Access in China: Strategies, Practices, Challenges

Xiaolin Zhang

National Science Library, Chinese Academy of Sciences

19-20 November, 2013



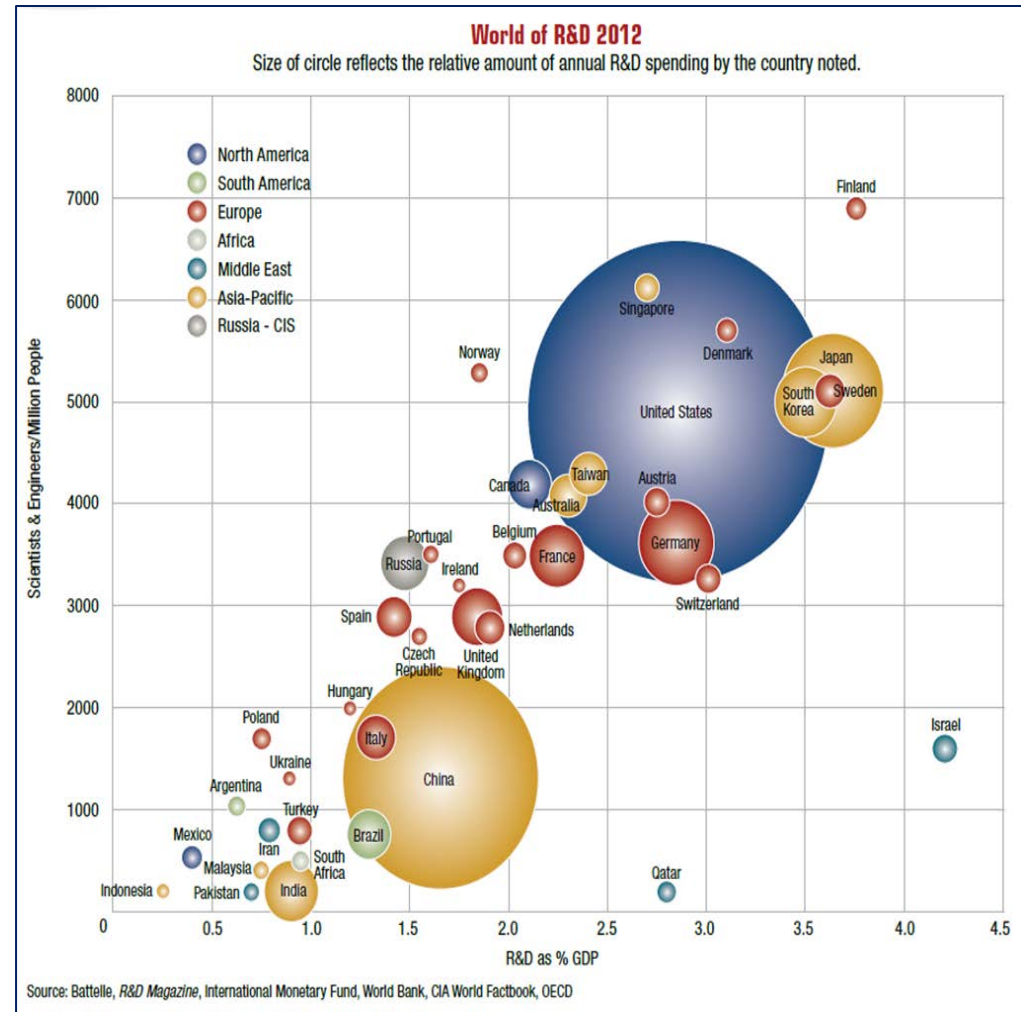
Development of Open Access in China

- **1. STM R&D growth in China**
- **2. OA Strategies & Promotion in China**
- **3. OA Journals & Repositories in China**
- **4. Further Challenges**

1. STM R&D in China

(1) Growth of Chinese STM R&D Investment

- NBoStat/MoST/MoF:
- 2012 R&D Investment
 - 2012: 1029 Billion RMB
 - **18.5%** over 2011
 - 1.98% of GDP
- Public R&D:
 - 560 Billion RMB
 - **16.7%** over 2011
 - 4.45% of budgets
- Industry R&D:
 - 784.2 Billion RMB
 - **19.2%** over 2011

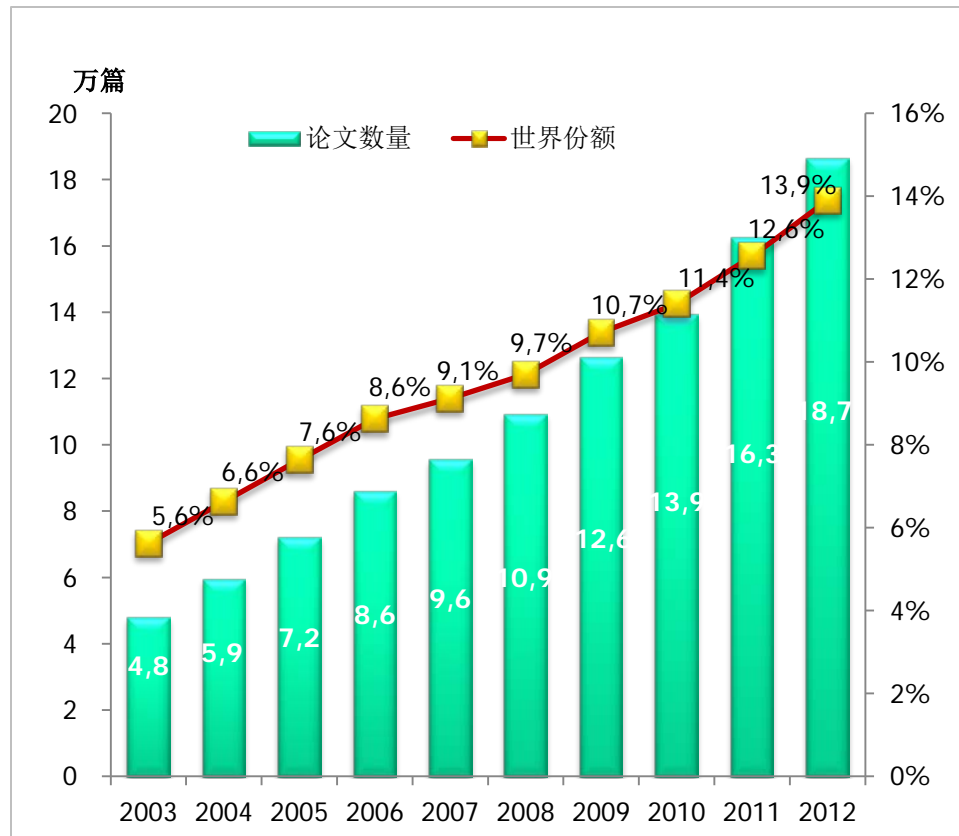


OA in China

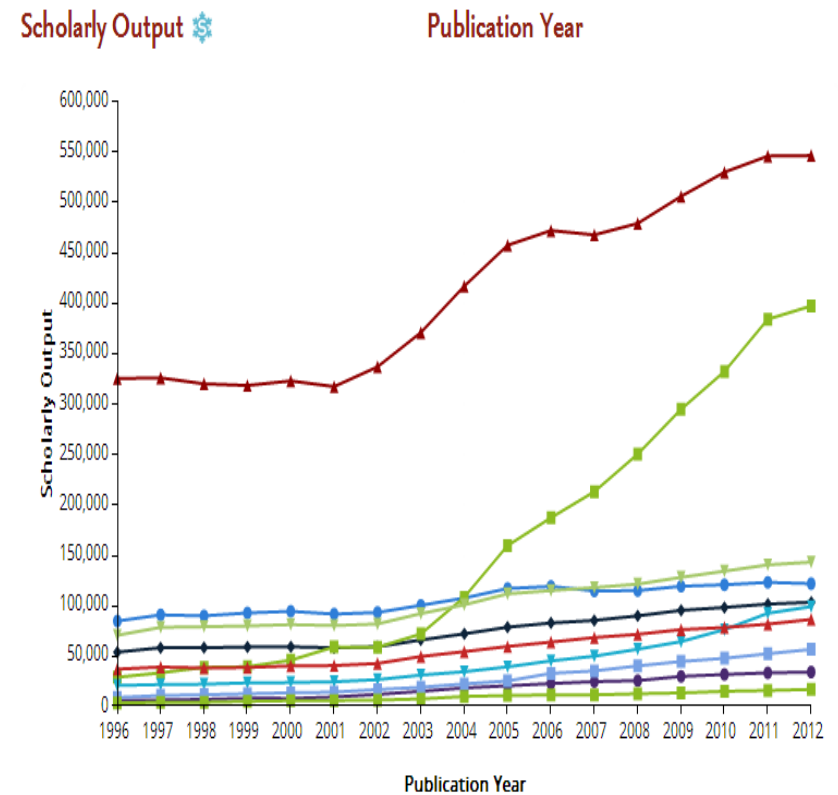
1. STM R&D in China

(2) Growth of Chinese Research Papers

2003-2012: Chinese SCI papers from 47927 to 186577
World percentage from 5.6% to 13.9%



By InCite, including HK and Macau



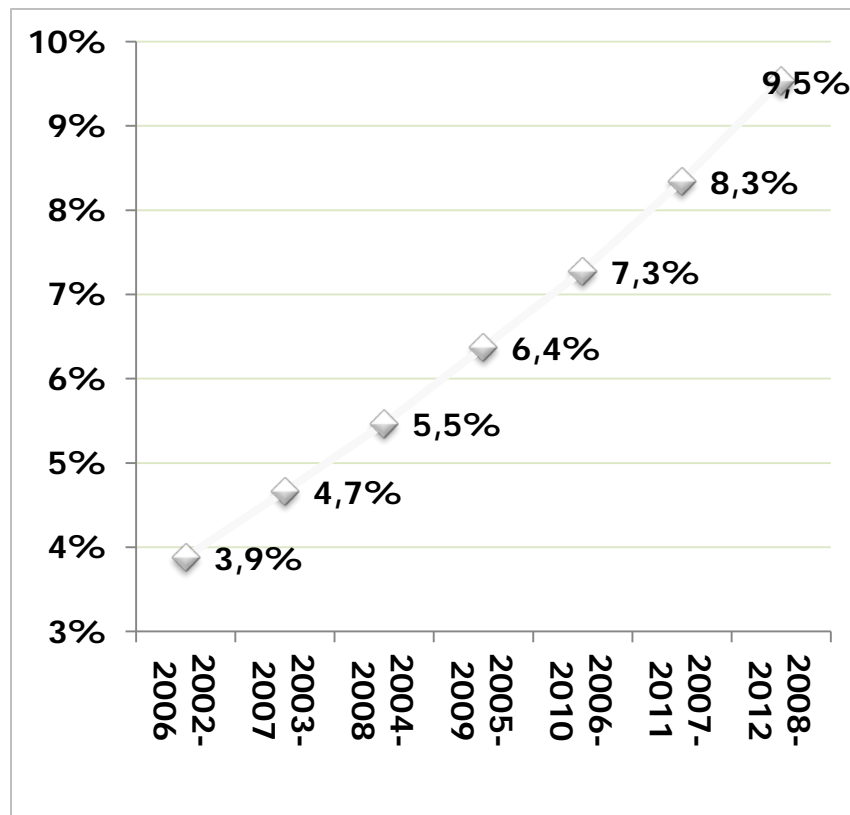
By SciVal, via Y.S. Chi

1. STM R&D in China

(3) Growth of Chinese Research Impact

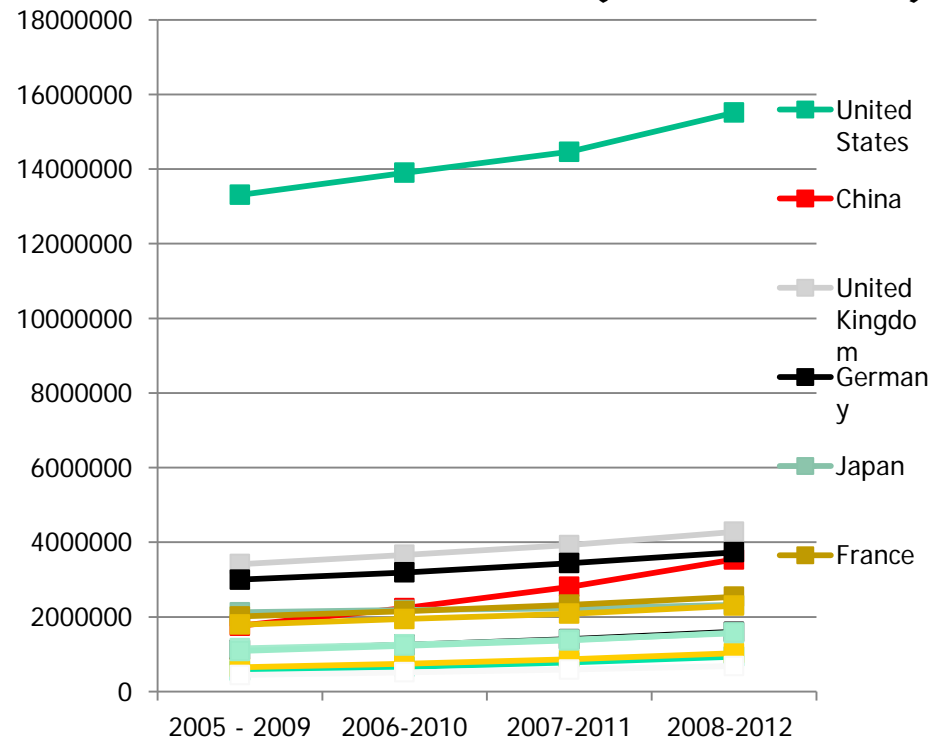
2002-2012: Chinese SCI citations from 3.9% to 9.5%

World position as the 3rd most cited country



By InCite, including HK and Macau

Total Citations (2005 – 2012)



By SciVal, via Y.S. Chi

1. STM R&D in China

(4) Growth of International R&D Cooperation

Chinese SCI papers with internationally co-authors

2000-2010: from 7552 to 31478

World percentage from 5.1% to 12.5%

	2000	2005	2010
Chinese SCI papers with international co-authors	7552	16199	31478
Percentage of world internationally co-authored papers	5.1%	8.0%	12.5%
Countries co-authored with China	32	41	47

By NSL/CAS, including HK and Macau

1. STM R&D in China



(5) Responsibility for its people and for the world

- While recognizing challenges to the quality and impact of its research, a keen realization of the responsibility
- To enable access to research results by Chinese people, especially those outside the elite few
- To contribute to the open sharing of research results world-wide, not taking a free ride



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2. OA Strategies & Promotion

2003 CAS President Lu signed Berlin Declaration

2004 CAS and NSFC signed Berlin Declaration

- **2005 Intl Conf. Strategies and Policies of Open Access to Scientific Information, by CAS, Beijing**
- **2007 Intl Sem. Copyright Issues in DL/OA, Beijing**
- **2009 Intl Sem. on Common Licenses for OA, Beijing**
- **2010 8th Berlin Conf. on OA, CAS & MPG, Beijing**
- **2012 1st China Open Access Week, Beijing**
 - International trends, policies, and experiences
- **2013 CAS & NSFC endorsed GRC OA Action Plan**
- **2013 2nd China Open Access Week, Beijing**
 - Domestic experiences & best practices in OA journals/repositories
- **2014 GRC Summit with reviewing of open access**
 - CAS working as the central team in organizing the review

2. OA Strategies & Promotion

2006 at the CODATA Beijing

- **Minister of Science and Technology**

- Commitment to open access to scientific information

- **2010 at the 8th Berlin Open Access Conference, Beijing**

- **Chinese Academy of Sciences**

- CAS Open Access Strategy

- **2012 at the National Innovation Congress**

- **Primer Wen Jiabao**

- All scientific information created with public funding should be openly accessible to the whole society to support innovation and development

- **New actions in 2013**

- **From the State Council, MoST, CAS & NSFC**

- Strong public commitment and current working on policies

2. OA Strategies & Promotion

CAS Open Access Strategy

- By vice secretary general of CAS Pan Jiaofeng
 - At the 8th Berlin OA Conference, 2010, Beijing
- Promoting deposit of public research results
 - Developing OA IRs in CAS institutes
- Supporting OA publishing by CAS authors
- Supporting OA journals by CAS institutes
- Promoting OA policies & initiatives by funders
- Participating in international cooperation in OA

2. OA Strategies and Promotion

Awareness

- OA Promotion Portal
- China OA Weeks
- Public media reports

Promotion

- IR Implementation Group
- arXig.org China Group
- China IR Conf. 2013

Support

- OSS CSpace software
- Best practices for policies
- Info Policy Research Center



Development of Open Access in China

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3. OA Journals & Repositories in China

(1) Journal publishing and OA journals

■ Journals

- Total: 9849; STM: 4920 (by 2011)
- Higher quality: 1124 (by CSCD)/1868 (by ISTIC)

■ Survey 1: Cheng, W. & Ren, S. 2012.11.23

■ OA journals: 642

- 34.4% among 1868 academic 'core' journals
- 300+% increase since 2006

■ Distribution

- Med 130, 20%; Eng 107, 16.7%; Univ. Journals 201, 31.3%; Basic Sciences 204, 31.7%

■ Speed to open:

- Before print 4.8%; Con-Current 39.3%;
- Delayed 1-12m 36% and 13m+, 19.9%

3. OA Journals & Repositories in China

(1) Journal publishing and OA journals

Survey 2 by Chu, J. et al, 2012.10

- **OA Journals 308**
 - **29.3%** among 1050 STM society journals
 - **137%** since 2006
- **Speed to open:**
 - **Con-Current, 55.7%; Delayed 1-6m, 25.6%**
 - **Delayed 7-12m, 5%; Delayed 13m+, 2.5%; Others, 10.1%**
- **Use rights:**
 - **Only 7% adopts CC licenses, 47% have NO formal policies**
- **Fees**
 - **Only 7 titles with OA fees; 39% with print subscriptions;**
 - **46.8% fees from aggregators; Majority funded by institutes**
- **Self deposit:**
 - **Formally allowed, 19%; Not against, 44.2%**
 - **Not allowed, 6.3%; No policy, 30.4%**

3. OA Journals & Repositories in China

(1) Journal publishing and OA journals

CAS OA Journal Portal <http://www.oaj.cas.cn/>

中国科学院 科技期刊开放获取平台
Open Access Journals of CAS (CAS-OAJ) 学术性、公益性文献资源门户

2012-11-29 14:35:40 星期四 | 首页 | 检索服务 | 热门文章 | 同行点评 | 政策法规 | 博文推荐 | 常见问题 | 关于平台

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促进学术交流 扩大期刊影响

文章 期刊 任意字段 检索词： 搜索 高级检索 跨库检索

学术快讯 出版动态 会议资讯 OA动态

- 中宣部有关领导调研科学出版社期刊开放... 2012-01-10
- Wiley宣布推出全新开放获取期刊... 2012-11-09
- 中国举办首个开放获取周学者呼吁推广学... 2012-10-30
- 我国已成为世界科技期刊大国... 2012-10-22
- OA巨匠Peter Suber的新作... 2012-10-18
- 李长春致信中国作家协会 祝贺莫言获2... 2012-10-16
- 邹书林：数字时代更要认认真真做出版... 2012-10-09

更多...

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- 平台文章订阅 介绍
- 期刊引证分析 介绍
- 学科咨询服务 介绍
- 文章全文发布平台 介绍
- 文章DOI标识注册 介绍

学科分类检索 查看全部>>

- 生物科学 医药、卫生 自然科学总论 环境、安全科学
- 农业科学 政治、法律 社会科学总论 文化、教育、体育

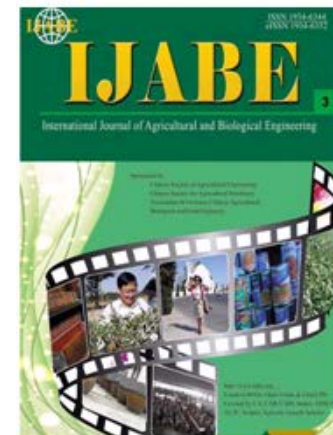
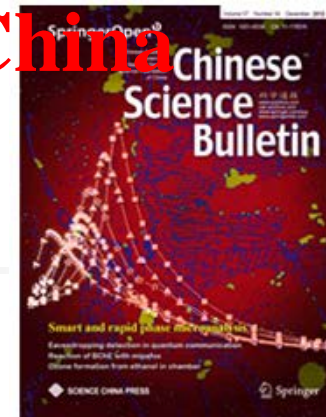
期刊首字母检索 查看全部>>

A B C D E F G H I

3. OA Journals & Repositories in China

(1) Journal publishing and OA journals

- Science China--Life Science
- Chinese Science Bulletin
 - Both transformed to OA since 2011, as part of SpringerOpen, <http://www.scichina.com>
- International Journal of Agricultural and Biological Engineering, born OA in 2008
 - With the OJS platform, www.ijabe.org
 - Wang, Y.K, 2012.11
 - By CSAE & AOCABFE & CAU
 - Intl editorial board, 65% foreign
 - Intl publications, 85% in 2011
 - APC: \$50 or ¥400/page, with additional support from sponsoring organizations

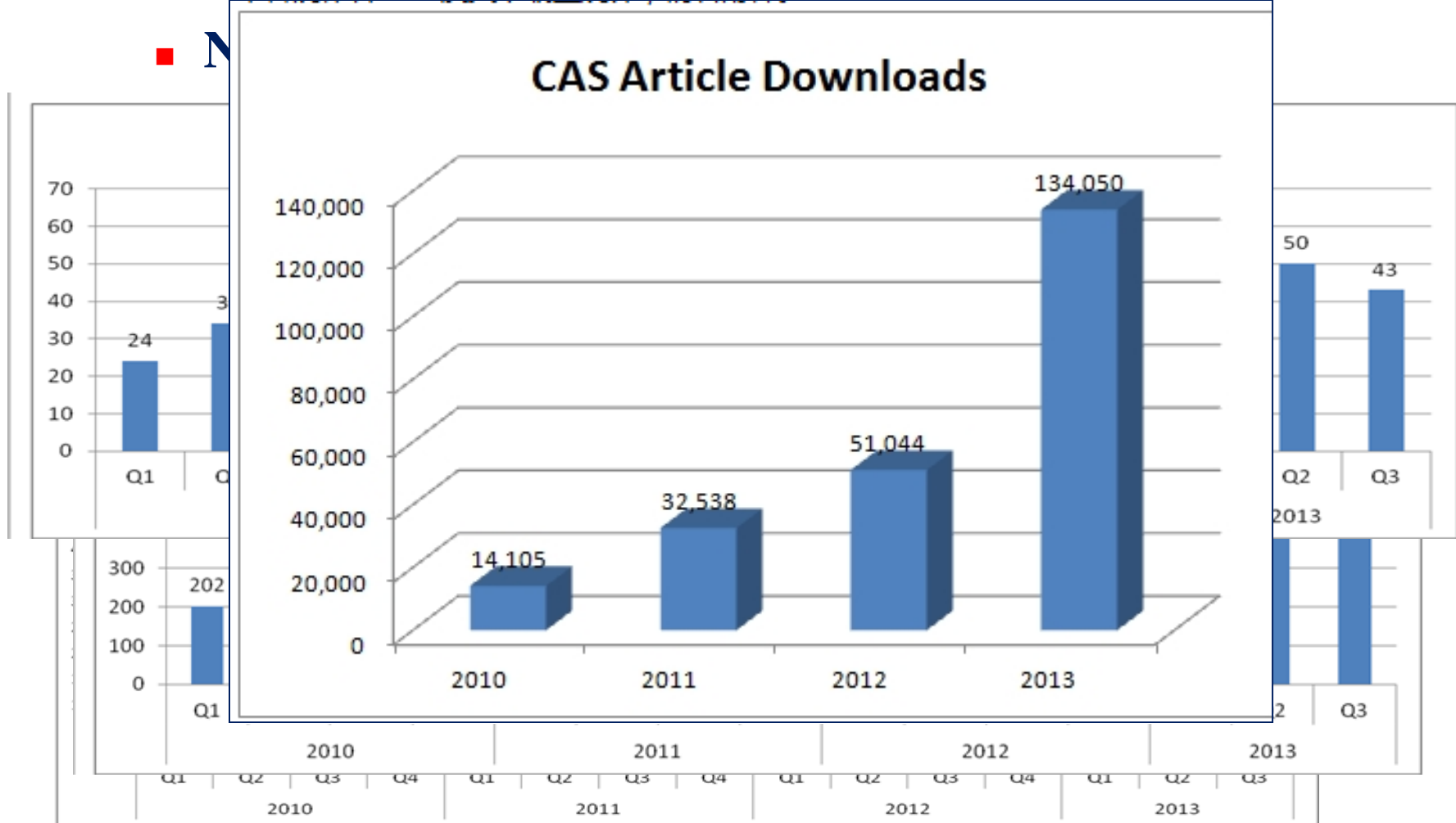


3. OA Journals & Repositories in China

(2) Support OA publishing

All funders allow using research grants for OA APC

■ N



3. OA Journals & Repositories in China

(2) Support OA publishing

All funders allow using research grants for OA APC

- NSFC, MoST, MoE, CAS, CAMS, CAAS,
- Increasing numbers of OA papers by Chinese authors
- PLoS
 - Jan. 2010 through Oct. 2013
 - Submissions China 23,947
 - Publications China 9,975
 - Publications from CAS 1,597
- BMC:

3. OA Journals & Repositories in China

(2) Support OA publishing

CAS/NSL supports OA publishing by its authors

- NSL + BMC, 50% APC
- NSL + NJP, 50% APC

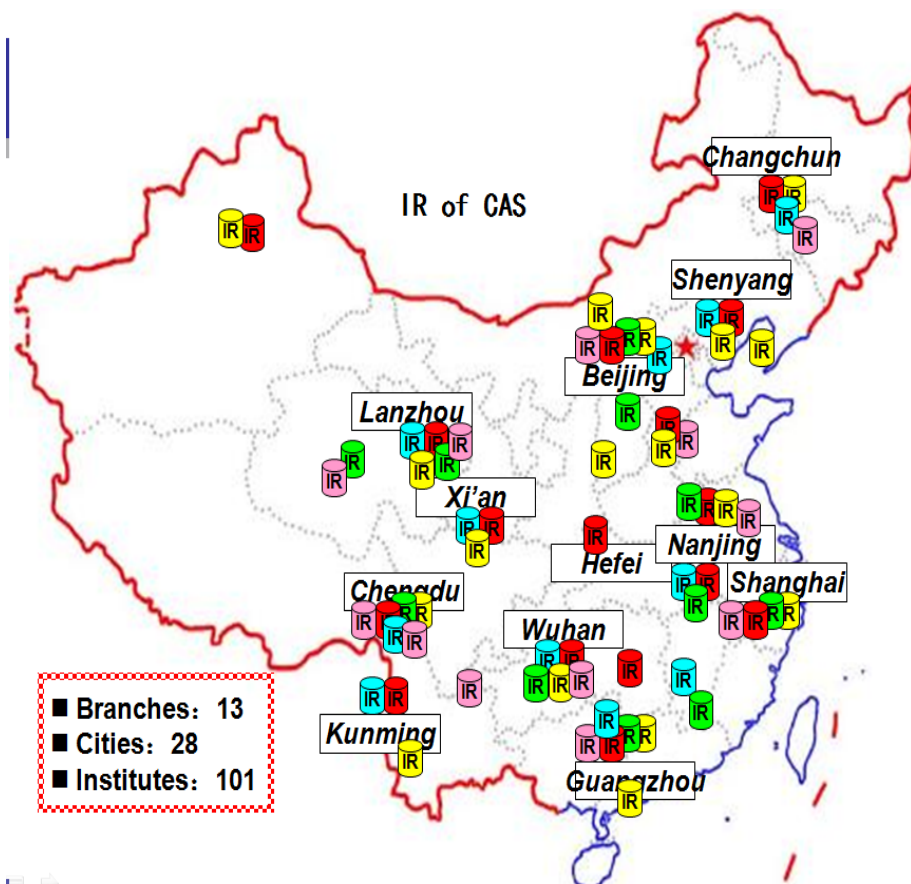
SCOAP3 China Group

- Transforming HEP peer-reviewed publishing into OA
- CAS, Peking U., Tsinghua U., Fudan U., etc.

3. OA Journals & Repositories in China

(3) CAS IR Services

IRs in CAS, 2009-



- 2013-10
- 87 in service
- 23 more in development
- CAS IR Grid in service

Total: 490,000+

Fulltext: 390,000+, 75+%

OA: 290,000, 75+%

Total Visits: 40,000,000+

Total downloads: **6.3 million+**

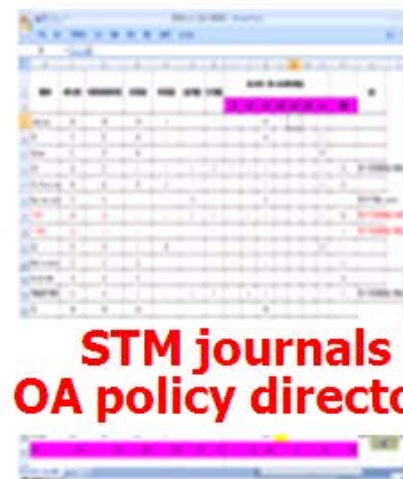


国家科学图书馆科技信息政策研究资料系列之五

公共教育科研单位
机构知识库内容存缴与传播的
权益管理政策指南

Rights Management Guidelines

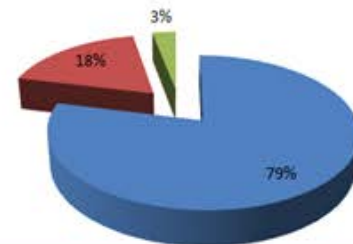
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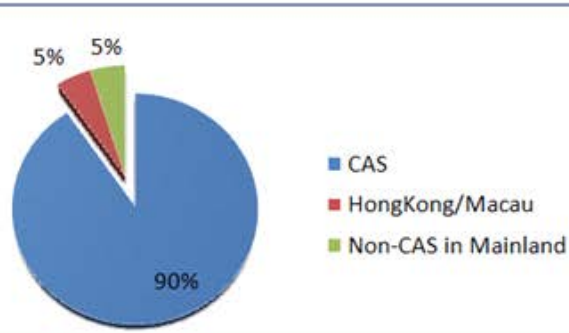
STM journals OA policy directory

China IRs in OpenDOAR, 2012.10

CAS HongKong/Macau Non-CAS in Mainland



China IRs in ROAR 2012.10




IMS-based Support Community

OA in China

(3) CAS TR Services

Li Zhiqiang; Gan Xiaoni; He Shunping
*Distinct Evolutionary Patterns between Two Duplicated Color Vision
Genes within Cyprinid Fishes*
JOURNAL OF MOLECULAR EVOLUTION, 69(4):346-359, 2009
<http://ir.ihb.ac.cn/handle/152342/7496>

截止2012年在中国科学院机构知识库累
计下载1668次，排名第一
<http://www.irgrid.ac.cn/>


中国科学院国家科学图书馆
2013
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OA in China

3. OA Journals & Repositories in China

(4) Academic Libraries in the mainland China

CALIS IR Project

<http://dspace.xmu.edu.cn/dspace/>



28 universities
<http://ir.calis.edu.cn/about.jsp>



(5) IRs in Taiwan and Hong Kong

Taiwan Academic IRs
<http://tair.org.tw>

Hong Kong Academic IRs.
<http://openaccess.hk/hkir.html>

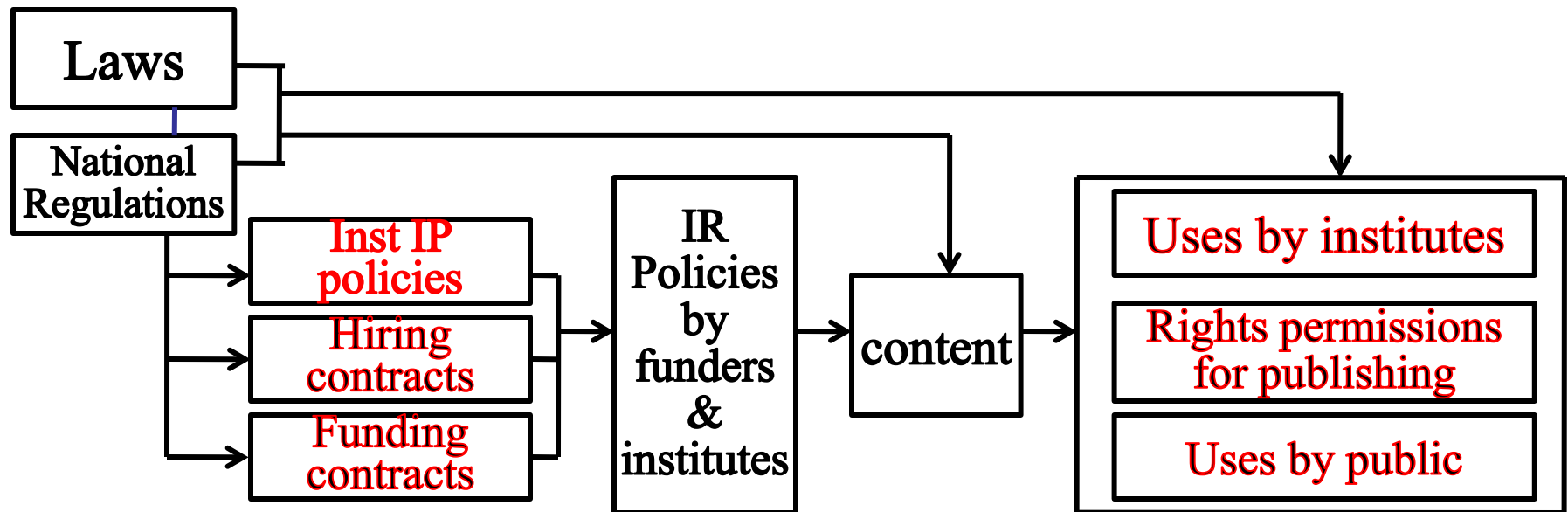


3. OA Journals & Repositories in China

(6) Rights Management for IR content

CAS/NSL Policy guidelines for content deposit and dissemination in institutional repositories (in Chinese)

- <http://ir.las.ac.cn/handle/12502/5043>



Multi-stakeholders, Prior rights and permissions,
Protection of use, dissemination, and preservation rights of all stakeholders



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4. Further Challenges



Strategic Directions

- **Stronger general commitment to OA**
 - While still a few people with misunderstanding, governmental, public, and research communities support open access with stronger commitment and real actions
- **Green OA as the policy focus**
 - While supporting OA APC through R&D funds, emphasis is on Green OA first to have the content in and accessible
 - Clearer understanding of public rights to open access
- **Support for infrastructure**
 - Institutional repository development
 - OA resource discovery and aggregation

4. Further Challenges



Challenges

- **Need stronger involvement of research communities**
 - Promotion, Policy development, Evaluation of OA
 - Protection of the rights of public and researchers
- **Lack of formal policies, yet**
 - Policy research and policy drafting going on
 - Detailed guidelines and good practices needed
- **Mandatory OA policies?**
 - Mandate or Not?
 - Embargo periods and differences for different fields?
 - How to enforce conformance?

4. Further Challenges



Challenges

- **Whether or how to support Gold OA**
 - Need specific institutional funds while already allowing research funds to pay APC?
 - Stronger support for domestic OA journals?
 - How to make publishing cost transparent, reasonable, and affordable (or, how to control APC)?
 - Support hybrid OA?
 - How to guard against predatory journals?
 - How to promote and organize transition of library acquisition budgets to open access funds?
 -
- **Concerns with domestic journal development**



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- Thanks!
- [**zhangxl@mail.las.ac.cn**](mailto:zhangxl@mail.las.ac.cn)
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