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Oct 25th, 3:15 PM

### Open academic service in the NSL-CAS: From notion to action

Xiwen LIU

*National Science Library of Chinese Academy of Sciences*

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# COAR Asia OA Meeting 2021

国际开放获取知识库联盟开放获取亚洲峰会2021年

## Open Academic Service in the NSL-CAS: from notion to action

中国科学院文献情报中心的开放学术服务：从理念到行动

**Xiwen Liu**（刘细文）

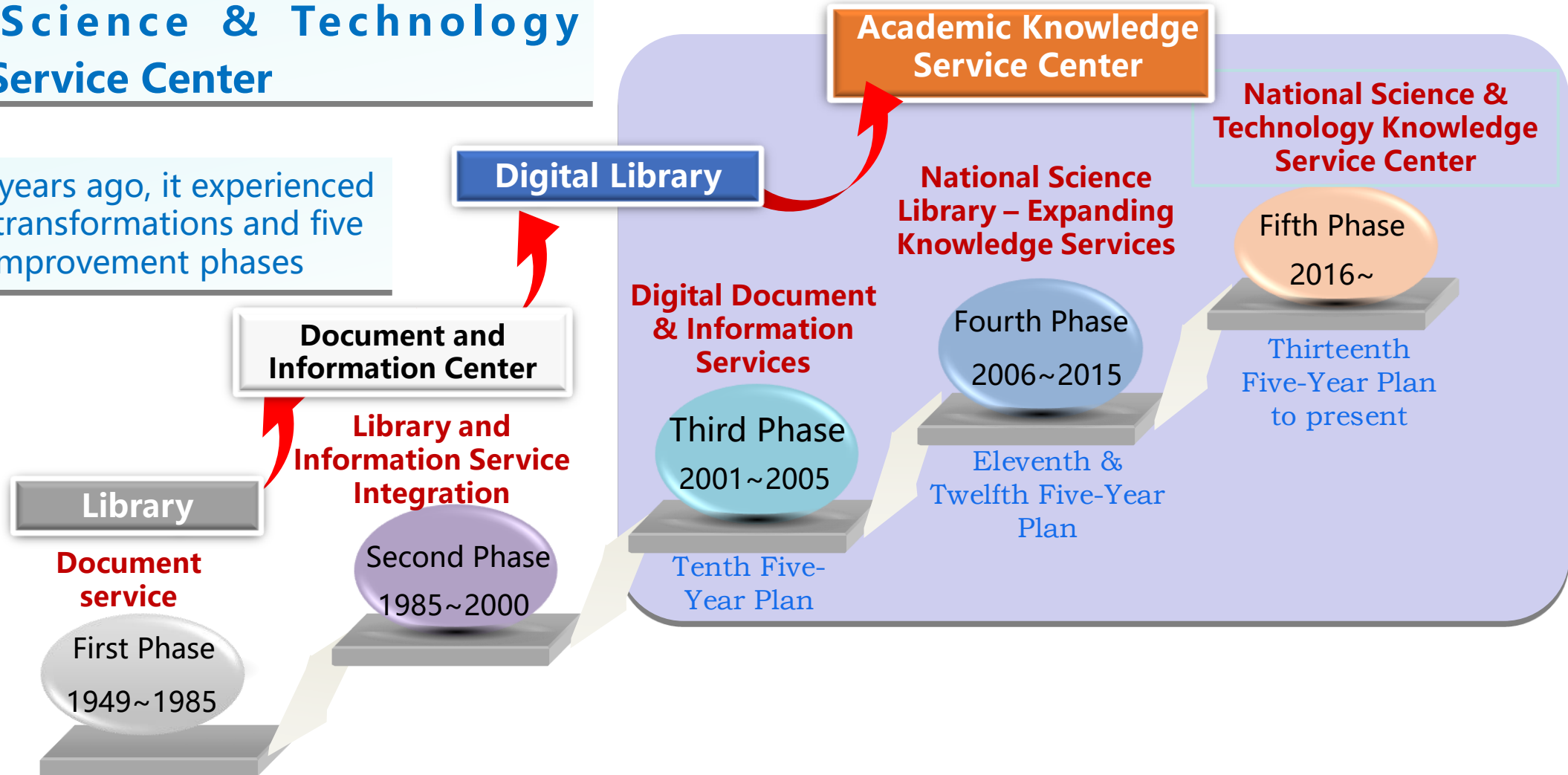
**25 October 2021**

# **A Brief Introduction of NSL-CAS**

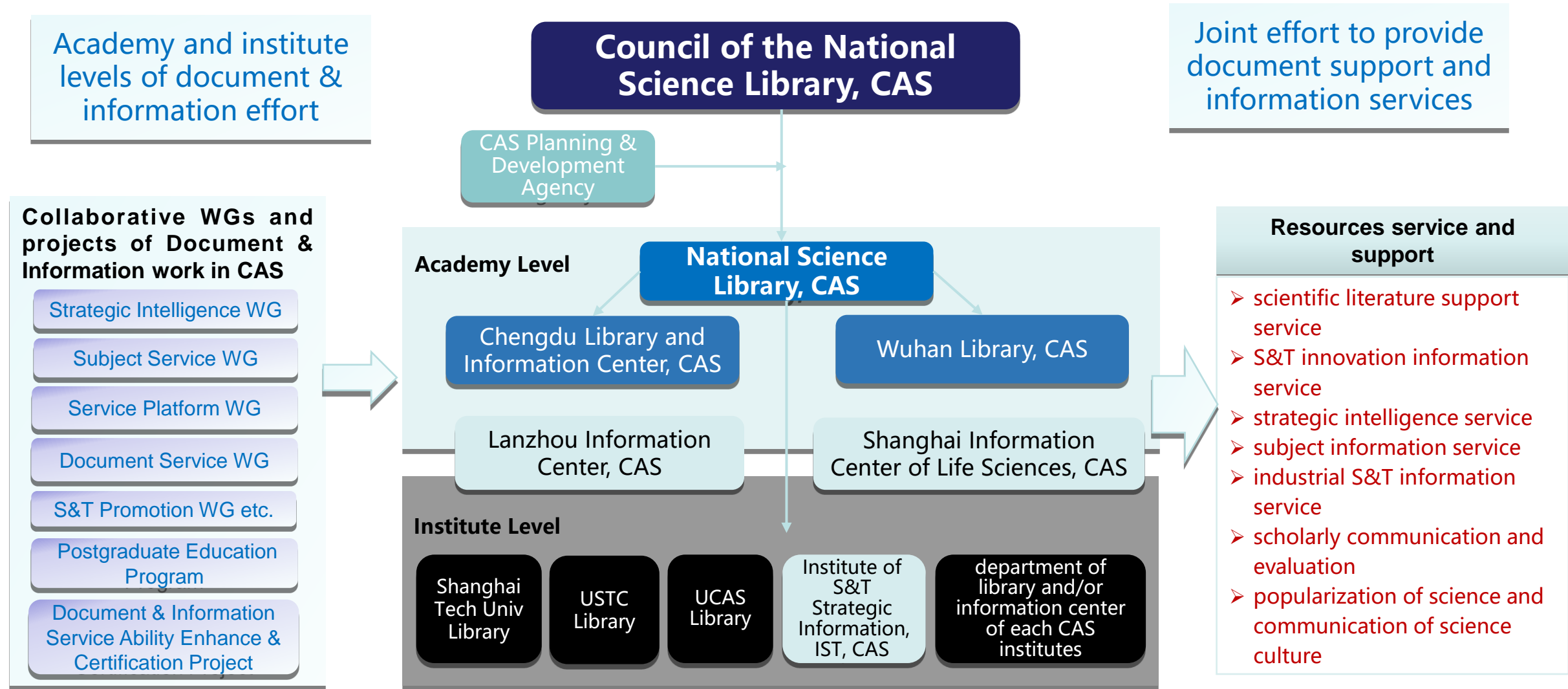
# Brief Introduction of National Science Library CAS

**Goal: To be member of the first-class National Science & Technology Knowledge Service Center**

Founded 70 years ago, it experienced three major transformations and five capabilities improvement phases



# Frame of National Science Library System



# Outline

- 1. Notion of Open Academic Service**
- 2. Signed the OA declaration and policies statements**
- 3. OA practice and service in NSL-CAS**
- 4. In the Future**

# 1 Notion(1)

- (1) Open and sharing are the essence of the library and information service. Library should play an important role in the Open Access movement. In the beginning of 2003, CAS had the solid receptions on the Open Access when it was initiated.
- Because of :
  - Open Access will affect library and librarians' future survival and career in the whole of life.
  - Open Access will involve more stakeholders and participants in the wide professional fields.
  - Some OA implementation rules needs to test and be considered carefully.

# 1 Notion(2)

- **(2) Open Access will depend on the technical and mechanism Innovation, specially in the side of the IT and digital content technology**
  - The development of IT and the global open access movement will form many predictable new models for academic services.
  - Big data, AI, Mobile internet and Cloud computing should be applied and change the OA modes.
  - NSL should testify the Open Academic Services models, which could be embedded in digital research processes in China.



# Outline

1. Notion of Open Academic Service
2. Signed the OA declaration and policies statements
3. OA practice and service in NSL-CAS
4. In the Future

## 2 Signed the OA declaration and OA policy statement(1)

- **Mr. Lu Yongxiang, signed the Berlin Declaration in 2003. The CAS and NSFC signed in 2004.** 路甬祥先生在2003年签署柏林宣言，中科院和基金委在2004年签署。



The screenshot shows the website for the Berlin Declaration Signatories. The main heading is "SIGNATORIES" with a sub-heading "Signatories". Below this is a table with columns for "No", "Date", "Organisation", and "Person". The table lists several signatories, including Universidad Nacional de Ucayali, Universidad Nacional de Cajamarca, University of Applied Sciences Würzburg-Schweinfurt, Nicolae Testemitanu State University of Medicine and Pharmacy of the Republic of Moldova, and Ivan Franko National University of Lviv, Studia Biologica Journal.

No	Date	Organisation	Person
697	26.07.2021	Universidad Nacional de Ucayali	Fernando Pérez Le...
696	22.07.2021	Universidad Nacional de Cajamarca	Ángel Francisco Dávila Rojas
695	19.07.2021	University of Applied Sciences Würzburg-Schweinfurt	Robert Grebner
694	13.07.2021	Nicolae Testemitanu State University of Medicine and Pharmacy of the Republic of Moldova	Liubovi Karneava
693	12.07.2021	Ivan Franko National University of Lviv, Studia Biologica Journal	Rostyslav Stoika



The screenshot shows a list of Berlin Declaration signatories. The table has columns for "No", "Date", "Organisation", and "Person". Several entries are highlighted with red boxes, including the Chinese Academy of Sciences (Lu Yongxiang) and the National Natural Science Foundation of China (Chen Yiyu).

43	15.07.2004	Institut National de la Recherche Agronomique	Marion Guillou
42	26.05.2004	QIL CN e-Print archive Team; University of Science and Technology Beijing	Ji Yanjiang
41	26.05.2004	Bibliotheca Alexandrina	Ismail Serageldin
40	24.05.2004	National Natural Science Foundation of China	Chen Yiyu
39	12.05.2004	CERN (European Organization for Nuclear Research – Organisation européenne pour la recherche nucléaire)	Robert Aymar
38	25.07.2005	Università degli Studi di Pavia	Roberto Schmid
38	12.05.2004	Università degli Studi di Pavia	Paula Vita Finzi
37	03.05.2004	Institute for Science Networking Oldenburg GmbH an der Carl von Ossietzky University	Eberhard R.Hilf
36	05.04.2004	Indian National Science Academy	Marthanda Varma Sankaran Vallathar
35	19.03.2004	Scholarly Publishing and Academic Resources Coalition Europe	David Prosser
34	19.03.2004	Scholarly Publishing and Academic Resources Coalition International	Rick Johnson
33	05.03.2004	Biblioteca Interateneo Digitale della Sapienza, Università di Roma "La Sapienza"	Antonio Fantoni
32	02.03.2004	Institut Pasteur	Philippe Kourilsky
31	12.02.2004	European Geosciences Union	Peter Fabian
30	06.02.2004	Fonds National de la Recherche Scientifique	Marie-Josée Simoes
29	06.01.2004	Universitetet i Bergen	Kristen Haugland
28	29.12.2003	Chinese Academy of Sciences	Lu Yongxiang
27	25.12.2003	"Aureo Anello" Associazione Biblioteca e Bottega Fioretta Mazzei e Amici del Cimitero 'degli Inglesi'	Julia Bolton Holloway
26	09.12.2003	Volkswagenstiftung	Wilhelm Krull

- **Pictures source: mpg.de**

## 2 Signed the OA declaration and OA policy statement(2)

- The Chinese Academy of Sciences and the National Natural Science Foundation of China have published each open access policy in 2014 on same day.



- 中国科学院与国家自然科学基金委员会于2014年共同发布各自的开放获取政策声明。

**中国科学院关于公共资助科研项目发表的论文实行开放获取的政策声明**  
中国科学院  
2014年5月15日

通过公共资助科研项目研究, 累积创造知识, 支持创新, 促进发展的重要手段, 受资助项目发表的科研论文属于全社会共享的知识资源, 它自身具备开放获取的条件, 为促进知识传播, 提高公共资助所产生的知识创造和为社会创新服务能力, 让知识惠泽社会, 创新获取政策, 为: 将我国现阶段以下公共资助科研项目论文开放获取政策:

我国研究人员和研究人员在所属机构各分支机构公共资助科研项目, 自本政策发布之日起按照所在学术期刊上所发表的研究论文, 作者应在论文发表前将同行评议原稿的最终审定稿件提交所属机构的知识库, 并于发表后 12 个月内开放获取。机构除作者把未发表和之前发表未审论文以同样方式通过所属机构的知识库开放获取, 授权机构在遵循主管部门制定学术知识产权规则的公共资助项目科研论文开放获取外, 需在我国各个研究所建立知识库, 提供本机构作者开放获取政策, 支持论文通过知识库获取。

鼓励支持公共资助科研项目具备可靠质量控制和管理质量的开放获取学术期刊上发表论文; 鼓励我国相关部门建立开放获取的开放获取学术期刊通过流程; 鼓励我国相关部门支持对机构有影响力的学术期刊开放获取政策。

我国认识到, 开放获取是一项有利科学发展的事业, 同时认识到, 开放获取的模式还有待进一步改进, 规范, 非商业目的持续发展的模式, 要求我国相关部门积极与国外相关部门合作, 鼓励国家各部委科技和基金委员会已发表论文开放获取, 授权与国外科技界以及各国政府合作, 促进建立开放获取的国际合作, 共同维护开放获取的健康, 可持续发展。

**中国国家自然科学基金委员会关于资助项目科研论文实行开放获取的政策声明**  
2014年5月15日

公共资助科学研究, 是创造知识, 支持创新, 促进发展的重要手段, 受资助项目发表的科研论文是全社会的知识资源, 其自身具备开放获取的条件, 为促进知识传播, 推进科学事业的全球进程, 并提升公共资助所产生的知识创造和社会创新能力, 让知识惠泽社会, 为: 特别规定国家自然科学基金会资助项目科研论文的开放获取政策:

自本政策发布之日起, 国家自然科学基金会全部或部分资助的科研项目投稿并在本期刊上发表研究论文作者应在论文发表时, 将同行评议后原稿的最终审定, 存储到国家自然科学基金委员会的知识库, 于论文发表后 12 个月开放获取。如果该论文开放获取, 应予以披露; 如果论文是开放获取的, 或出版论文作者应提供论文原稿, 应遵循论文出版流程, 并立即开放获取。

授权负责相关部门制定资助项目科研论文开放获取流程, 建立开放获取流程, 按照国际通用规范, 支持公众通过同等级常开放获取内容。

国家各部委和相关部门积极与国外相关部门和公共资助科研机构合作, 鼓励国家各部委科技计划和公共资助项目已发表论文的开放获取; 国家各部委相关部门积极与国外科技界合作, 共同维护公共资助项目科研论文在各地的开放获取。

**我国进一步推动公共资助项目科技论文开放获取**  
2014年5月15日

中国科学院  
国家自然科学基金委员会

**【光明日报】公共资助科研项目论文实行开放获取**

中国科学院  
国家自然科学基金委员会

**国家自然科学基金会关于资助项目科研论文实行开放获取的政策声明**  
2014年5月15日

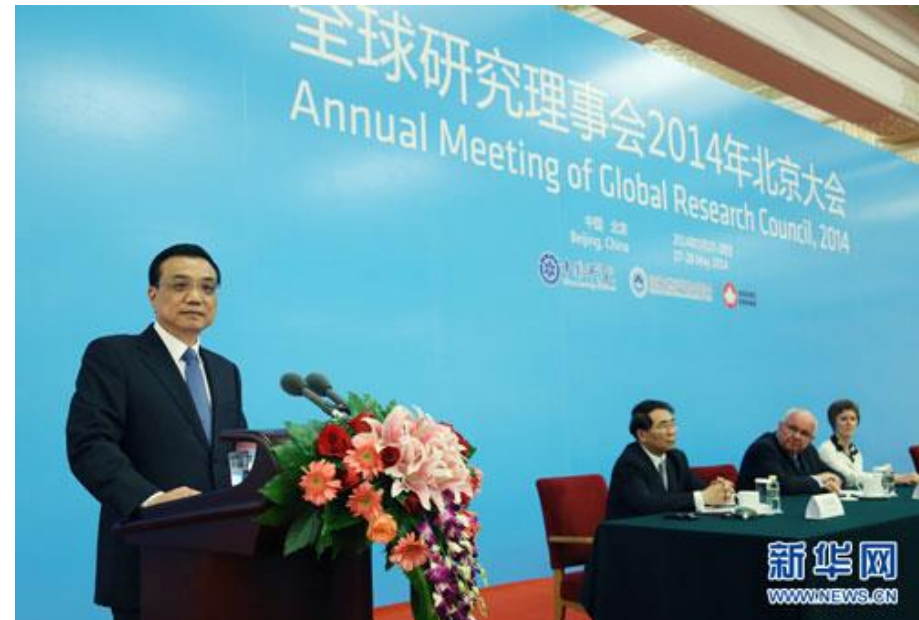
- Pictures source: cas.cn

## 2 Signed the OA declaration and OA policy statement(3)

- Premier Li Keqiang attended the 3th Global Research Council and delivered a speech in support of open sharing, intellectual property rights and the development of young talent scientists.

- 李克强总理出席第三届全球研究理事会，致辞表示支持开放共享与知识产权以及青年科学家的发展。

- Pictures source: [xinhuanet.com](http://xinhuanet.com)





## 2 Signed the OA declaration and OA policy statement(4)

- **NSL-CAS signed OA 2020 initiative and organized the meeting for discussing the feedback to Plan S implementation guideline.**
- 中国科学院文献情报中心签署OA 2020倡议书，并且组织了讨论Plan S 实施指南的反馈意见。



- Pictures source: [las.cas.cn](http://las.cas.cn)

# Outline

- 1. Notion of Open Academic Service**
- 2. Signed the OA declaration and OA policies statements**
- 3. OA practice and service in NSL-CAS**
- 4. In the Future**

# Outline

## **3. OA practice and service in NSL-CAS**

### **3.1 Institutional repository of CAS**

### **3.2 ChinaXiv Service**

### **3.3 CAS OA in One Platform**

### **3.4 OA Resource collections**

### **3.5 OA Journals**

### **3.6 OA training and conferences**

# 3 OA practice and service in NSL-CAS(1)

- 3.1 Building a Grid of IR in CAS and a domestic community.
- 逐步建成机构知识库集群以及全国范围的社群

机构排行

序号	知识库	成果总量	全文成果量	全文开放量	浏览量	下载量	学者数
3	长春光学精密机械与物理研究所	26675	25099	25099	4632202	368524	805
80	生态环境研究中心	25948	22133	22128	5032919	1284091	560
5	长春应用化学研究所	23443	22758	19501	4174220	226465	0
47	力学研究所	19729	18172	18154	8035097	1584087	2247
78	沈阳自动化研究所	18704	17241	17240	5558587	991259	1894
33	合肥物质科学研究院	26657	16004	16002	3176462	1076850	1469
69	上海微系统与信息技术研究所	13171	13171	13171	960875	149237	185
42	昆明植物研究所	20218	17736	12429	1655719	417819	303
10	地理科学与资源研究所	56920	12207	12206	3420876	583512	579
71	上海应用物理研究所	12007	12007	12007	1727879	487466	68

第 1 到第 10 条, 共 114 条 每页显示 10 条

中国科学院机构知识库网格  
Chinese Academy of Sciences Institutional Repositories Grid

首页 机构 成果 学者 登录 注册

GO

学位论文 96155条

获奖成果 5725条

专著 5489条

演示报告 1374条

成果浏览与检索

机构导航

学者主页

知识统计与分析

- Pictures source: [www.irgrid.ac.cn/](http://www.irgrid.ac.cn/)



# 3 OA practice and service in NSL-CAS(2)

- 3.1 COAR has supported in many times the Chinese Institutional Repository Conference and International Open Access Repository Training Course.

- 国际开放获取知识库联盟多次支持中国机构知识库研讨会和国际开放知识库培训班

- Pictures source: COAR



**COAR** Confederation of Open Access Repositories

Home » News & Publications » News from China

### News from China

**Brief report of the 2016 Chinese Institutional Repository Conference and launch of the new repository group in China, CHAIR**

The 4th annual Chinese Institutional Repository Conference took place in Chongqing, China on September 21-22, 2016, with the theme of "Rich functions and extended roles for institutional repositories". The conference was jointly organized by National Science Library, Chinese Academy of Sciences (CAS) and CIRG (Chinese institutional repository implementation group), and Chongqing University Library. It attracted over 330 registered participants, reflecting the growing interest in repositories in the Chinese library community.

A wide range of issues and topics related to repositories were discussed over the two days including research data management, integration with CRIS systems, training, policies, guidelines, and so on. The conference began with a presentation by the director of National Science Library, CAS, Huang Xiangyang, who highlighted that IRs represent an important infrastructure for knowledge service, and called on for China's IRs to collaborate more closely and construct a stronger Chinese IR network. Zhu Zhongming, from Lanzhou Library of CAS introduced architecture and service of China Open Research Cloud (CORC), which will support and help institutions to build up their IRs. Moderated by Zhang Xiaolin, principal scientist of National Science Library at CAS, the conference also had presentations from several overseas speakers, including Kathleen Shearer (COAR), Iryna Kuchma (EIFL), Friedrich Summann (BASE), Jim Entwood (arXiv), Kazu Yamaji (NII) and others.

On the morning September 22, there was a ceremony to celebrate the establishment of the "China Academic Institutional Repository" (CHAIR). Zhu Qiang, University Librarian from Peking University, announced the launch of this federation of 33 universities, which will enable greater information sharing and collaborative work on repositories across the Chinese universities. Chen Ling and Nie Hua, Associate University Librarians at PKU introduced CHAIR and explained that it will begin with a launch of six different working groups. COAR congratulates our Chinese colleagues on the vibrant community they are developing around open access and repositories, and we look forward to continue working with our Chinese members (National Science Library (CAS), Peking University Library (CAS), and Xiamen University Libraries) as well as the newly formed CHAIR federation and the broader Chinese repository community.

# 3 OA practice and service in NSL-CAS(3)

- 3.2 ChinaXiv is the first and largest pre-print platform in China; more Chinese Journals collaborate together.

- ChinaXiv是第一个也是最大的预印本平台，有越来越多的中国期刊的合作。



- Pictures source:  
<http://chinaxiv.org/>

# 3 OA practice and service in NSL-CAS(4)

- 3.3 Open Access Resource platform ( such as OA in One ) supports the NSL-CAS' big data service that by using mobile, cloud and AI tech to service CAS researchers.

- 开放资源建设（如 OA in One项目）支持文献情报中心的大数据服务，通过移动、云、人工智能技术，服务中科院科研人员



- Pictures source: <http://oa.las.ac.cn>

# 3 OA practice and service in NSL-CAS(5)

- 3.4 NSL-CAS led main Chinese Academic Libraries to support the SCOAP3 and put the whole progress on next step.

- 中科院文献情报中心牵头主要的中国学术图书馆支持SCOAP3的工作，并将整体进程向前推了一步。

- Pictures source: SCOAP3

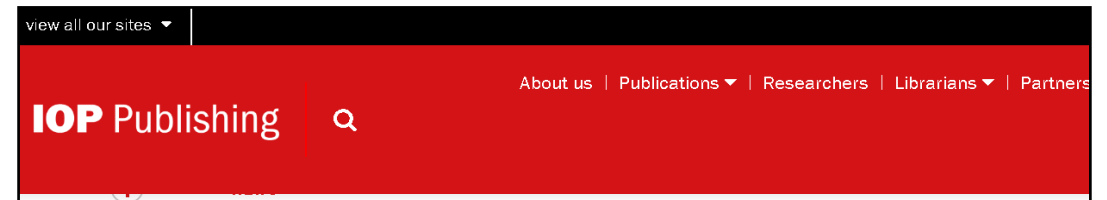




# 3 OA practice and service in NSL-CAS(6)

- 3.4 Since 2012, NSL-CAS worked with BMJ and IOP substantive together for funding CAS authors to publish open access papers.

- 自2012年起，中科院文献情报中心与BMJ和IOP实质性合作，资助中科院作者发表开放获取论文。



IOP Publishing and Chinese Academy of Sciences sign archive agreement  
25 Jul 2011 iopp"> iopp

Researchers from the Chinese Academy of Sciences (CAS) are now able to access nearly 140 years of scientific research thanks to a new deal signed in Beijing by CAS and IOP Publishing (IOP).

The new arrangement gives researchers access to content published in 2003-2007 and follows previous long-term preservation agreements signed in 2010 and the national license agreement signed with the National Science and Technology Library for the historic archive in 2008. As a result of these arrangements researchers at CAS now have access to IOP content from 1874 to the present day and keep all this data as dark archive.

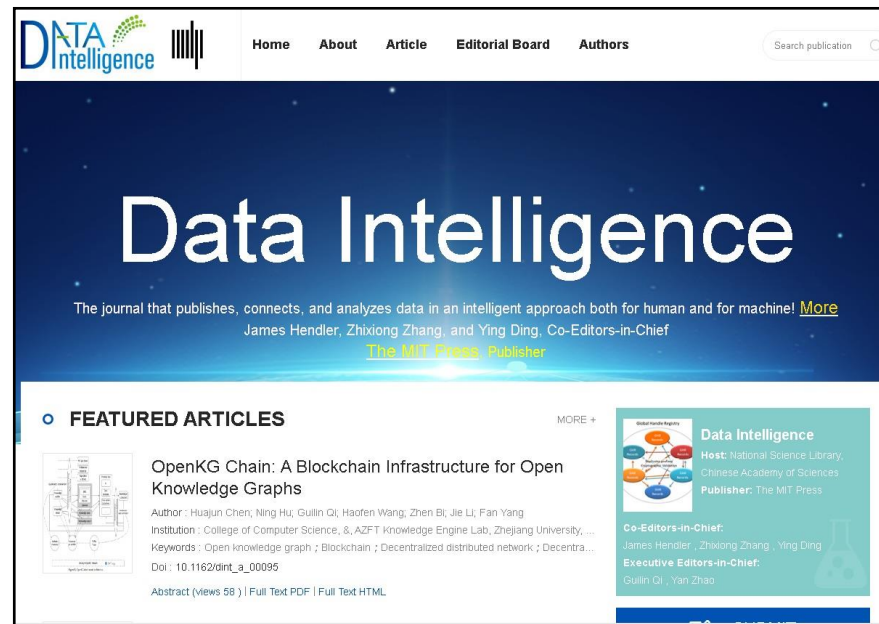
- Pictures source: BMJ, IOP

# 3 OA practice and service in NSL-CAS(7)

- 3.5 In 2020, NSL-CAS implement a part of STM journals' the open access conversion agreement. In addition, NSL-CAS publish OA Journals since recent years.

- 在2020年中国科学院文献情报中心实现部分科技期刊的开放获取转换协议。此外，近年来出版多本开放获取期刊。

- Pictures source: DI , JDIS



# 3 OA practice and service in NSL-CAS(8)

- **3.6 OA training and Conferences**

- **In 2004, NSL-CAS introduced Open Access to China, as the first systematically input on those issues.**

- 自2004年，文献情报中心首次在中国系统介绍开放获取。

- **In 2010, CAS hosted the Berlin 8 conference.**

- 在2010年，中国科学院主办了柏林8会议。

- **Since 2012, the China Open Access Week was held by NSL-CAS every October till now.**

- 自2012年以来，中国科学院文献情报中心每年十月举办中国开放获取周会议，直至今年。

# 3 OA practice and service in NSL-CAS(9)

- **3.6 OA training and Conferences**
  - **A series studies of intellectual property solves some practical barriers, such as the seminar of Copyright Law Amendment, Fair Use Week, training course etc.**

- 一系列的知识产权研究解决部分实践障碍，例如，著作权法修正研讨、合理使用周、图书馆著作权培训班等。



- **Pictures source: <http://www.las.cas.cn>**



# 3 OA practice and service in NSL-CAS(10)

- 3.6 OA training and Conferences

- Open Source Software Conference
- Open Science Conference



- Pictures source: [lsc.org.cn](http://lsc.org.cn)

# Outline

**1. Notion of Open Academic Service**

**2. Signed the OA declaration and OA policies statements**

**3. OA practice and service in NSL-CAS**

**4. In the Future**

# 4 In the Future(1)

- **In the future, NSL will continue to uphold the concept of open academic services, build an open academic information service value-chain, and form an academic information service ecosystem embedded in digital academic environment.**
  - **Promotion of the CAS-OA-in-ONE for the open science**
  - **Promotion of transformative resource collections for OA and subscriptions**
  - **Update the IR System in CAS to a research resources mgt. for decision-making and supports.**

# 4 In the Future(2)

- **Participation of the high level academic communications platform of CAS**
  - Subject fields **Xive** platform
  - Open scientific data and open publishing
  - Scholarly community for open science
  - Knowledge discovery based on the open multi-resources
  - Academic findings exchange and promotion for Chinese research articles

## 4 In the Future(3)

- **To develop more open academic services that meet the needs of CAS researchers and the public, eg. subject database, knowledge discovering tools based on the big data and AI.**
- **To participate the tasks of COAR working groups, such as metadata schema standard.**

Thanks for attentions

Welcome the questions

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