COAR Annual Meeting & General Assembly 2016

Date: Wednesday, April 13th, 2016
Location: University of Vienna, Skylounge
Venue: Oskar-Morgenstern-Platz 1
Topic : **Regional Perspective: Focus on China**

Research Data Management and Open data in China

Li-Ping Ku
Library of Chinese Academy of Sciences
University of Chinese Academy of Sciences

Outline

1. Current policy and government strategy

   (Slide 5-20, 5mins)

2. National efforts, investments and infrastructure

   (Slide 21-107, 22mins)

3. Future prospects for next years of open science

   (Slide 108-118, 3mins)

Outline

1. Current policy and government strategy
2. National efforts, investments and infrastructure
3. Future prospects for next years of open science

==========

run. [import Policy (development direction);

class Technology (practical basis);

print Know-how (action programme)]

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

1. Current policy and government strategy

- March 5, 2016
- The 12th National People's Congress
- Government work report, 5-year plan

Ref. http://news.xinhuanet.com/english/2016-03/17/c_135198333.htm

1. Current policy and government strategy

- Report on the Work of the Government (March 2016)

  -…

  - the 13th Five-Year Plan from 2016 through 2020

  -…

  - the major areas of work for 2016

  -…

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

1. Current policy and government strategy

- Report on the Work of the Government (March 2016)
  - the 13th Five-Year Plan from 2016 through 2020

…

-We should ensure that innovation better drives and energizes development.

…

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

- We should make consistent efforts to encourage the public to start businesses and make innovations.
- We should promote the extensive application of big data, cloud computing, and the Internet of Things.
- We need to move faster to transform China into a manufacturer of advanced and quality products and a country that is strong on intellectual property rights.

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

1. Current policy and government strategy

- Report on the Work of the Government (March 2016)
  - the major areas of work for 2016

    …

    -we will carry out the following eight tasks:.

    …

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

- Report on the Work of the Government (March 2016)
  - the major areas of work for 2016
    - we will carry out the following eight tasks:.

...

-2. Strengthen **supply-side structural reform** to drive sustained growth

...

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

- We will deepen reforms to streamline administration, delegate more powers, improve regulation, and provide better services.
- We will ensure that the whole country's potential for starting businesses and making innovations is released.

...

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

- We will deepen reforms to streamline administration, delegate more powers, improve regulation, and provide better services.

  ---...the "Internet Plus government services" model and promote better information sharing between government departments....

  …

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

- We will ensure that the whole country's potential for starting businesses and making innovations is released.

  …

  Second, we will help people to pool their ideas and talents through a synergy of business startups, innovation, and the Internet Plus.

  ...

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

…

Platforms will be created for crowd innovation, crowd support, crowdsourcing, and crowdfunding, and mechanisms will be built to encourage new types of business startups and innovation-making through cooperation between enterprises, institutions of higher learning, research institutes, and makers.

…

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

…

We will strengthen the protection and use of intellectual property rights and look to the law to crack down on the infringement of these rights and on the production and sale of counterfeit products.

…

…

Ref. http://news.xinhuanet.com/english/bilingual/2016-03/18/c_135201680_3.htm

1. Current policy and government strategy

- Key points (Macro level)
  - It is one of a part of national five years plan, the final goal is to support the innovation drives economic development. It is viewed as public investment (the supply-side structural reform).
  - Methods are using by big data, cloud computing, and Internet plus.
  - Principle is the intellectual property rights.

1. Current policy and government strategy

- Key points (Micro level)

  - There are two aspects:
    - Internet Plus government services
    - New mechanisms for collaboration between enterprises, universities, research institutes, and makers.

  -Similar but not fully equal to
    - Open government, Open data, Open science.

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

2. National efforts, investments and infrastructure

微博微信 | English | 公务邮箱 | 加入收藏

中华人民共和国科学技术部
Ministry of Science and Technology of the People´s Republic of China

站内搜索

首 页 | 组织机构 | 新闻中心 | 信息公开 | 科技政策 | 科技计划 | 办事服务 | 公众参与 | 专题专栏

科技部门户 > 组织机构 > 直属事业单位

国家科技基础条件平台中心

主要职能

1．承担国家科技基础条件平台建设专项中有关大型科学仪器设备、自然科技资源、科学数据、科技文献、成果转化公共服务和网络科技环境等六大平台建设项目的过程管理和基础性工作。
2．参与在建平台建设项目的综合配置、中期评估与考核监督等工作。
3．参与对已建国家科技基础条件平台项目的运行服务情况开展的评估和监督工作，承担相关的考评、开放共享补贴费测算等工作。
4．承担科技基础条件门户系统的建设与运行管理工作。
5．协助联系地方、部门和行业系统的平台建设与运行服务工作，提供相关咨询服务。
6．承担国家科技基础条件平台建设的国际合作与宣传、培训工作。
7．承担国家科技基础条件平台建设发展战略、规范标准、管理方式，以及运行状况和问题的研究工作，为科技部宏观决策提出建议和对策。

Ref. http://www.most.gov.cn/zzjg/zzjgzs/zzjgsyptzx/index.htm

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - This Infrastructures is supported by the Ministry of Science and Technology and the Ministry of Finance of People's Republic of China.
  - The National Science and Technology Infrastructure Center (NSTIC, http://www.nstic.gov.cn) is the management unit of the portal.

Ref. http://www.escience.gov.cn/eng/index.html

2. National efforts, investments and infrastructure

Ref. http://www.most.gov.cn/zzjg/zzjgzs/zzjgsyptzx/index.htm

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Research bases and large scientific instruments
  - Nature and Technology Resources
  - Scientific data
  - Scientific literature
  - Online technology environment
  - Commercialization of research findings.

Ref. http://www.escience.gov.cn/eng/resources.html

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Meteorological Information Center
    - - National Scientific Data Sharing Platform for Population and Health
    - - National Agricultural Data Sharing Center
    - - National Data Sharing Infrastructure of Earth System Science
    - - China Earthquake Data Center
    - - China Forest Scientific Data Center

2. National efforts, investments and infrastructure

Ref. http://data.cma.cn/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Meteorological Information Center
      - Supervised by: China Meteorological Administration
      - Funded by: NSTIC
      - Service:

        Public : query, download some product

        Registered user: download data products

        Registered institutional user: APP

2. National efforts, investments and infrastructure

Ref. http://www.ncmi.cn/1

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Scientific Data Sharing Platform for Population and Health
      - Supervised by: Chinese Academy of Medical Sciences (CAMS)
      - Funded by: NSTIC
      - Policies: Law, policies and administrative order from National Health and Family Planning commission (NHFPC, PRC).

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Scientific Data Sharing Platform for Population and Health
      - Service Policies: platform overview, resource management, data deposit, data inspection, information security.
      - Standard: dataset classification, metadata, data model description, dataset normalization, data quality regulation, data extract regulation etc

2. National efforts, investments and infrastructure

Ref. http://www.agridata.cn/default.aspx

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Agricultural Data Sharing Center
      - Supervised by: Agricultural scientific data sharing center (ASDSC, incl. Chinese Academy of Agricultural Sciences, Chinese Academy of Fishery Sciences, Chinese Academy of Tropical Agricultural Sciences)
      - Funded by: NSTIC, ASDSC

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Agricultural Data Sharing Center
      - Service:

      Data acquisition, processing and management
      Data subscription and push
      Data caching, customization, embed management
      Others (newsletter, Agricultural data process Q & A, Agricultural database certification and list)

2. National efforts, investments and infrastructure

Ref. http://www.geodata.cn/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Data Sharing Infrastructure of Earth System Science
      - Supervised by: Institute of Geographical Sciences and Natural Resource Research, CAS.
      - Funded by: NSTIC, CAS
      - Policies: Charter of the Earth System Science Data Sharing Alliance; Charter of the earth system science data sharing platform.

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - National Data Sharing Infrastructure of Earth System Science
      - Service:
        - Directly download dataset
        - Registered users‘ data subscriptions
        - Special Topic
        - Other (International database list, newsletter, Popularization of science)

2. National efforts, investments and infrastructure

Ref. http://data.earthquake.cn/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - China Earthquake Data Center
      - Supervised by: China Earthquake Administration
      - Funded by: MoF, MoST, NSTIC
      - Service:
        - Data center: list of different dataset
        - Data product
        - Service statistic
        - Earthquake data knowledge

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - China Earthquake Data Center
      - Laws and administrative measures;
      - Charter of data sharing (rules for implementation as data deposit, classification, platform, service) ;
      - Standard of data sharing (Metadata, data model, database, exchange format, data classification and code, platform operation) .

2. National efforts, investments and infrastructure

Ref. http://www.cfsdc.org/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - China Forest Scientific Data Center
      - Supervised by: Chinese Academy of Forestry
      - Funded by: NSTIC
      - Service is by providing database list : Forest resources, Ecological environment, Forest protection, Forest cultivation, Wood Science, Research topics, Forestry construction.

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Scientific data
    - - China Forest Scientific Data Center
      - Metadata service: view, query, modify, addition.
      - Data deposit requirement: user log in, document up, data file up.
      - Data sharing standards: data center management, database tech, locating stations (Station, Observation index, data), data processing, Thematic map..

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Research bases and large scientific instruments
  - Nature and Technology Resources
  - Scientific data
  - Scientific literature
  - Online technology environment
  - Commercialization of research findings.

Ref. http://www.escience.gov.cn/eng/resources.html

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Online technology environment
    - - Beijing City
    - - Shanghai City
    - - Tianjing City
    - - Chongqing City
    - - (Other Provence online technology environment)

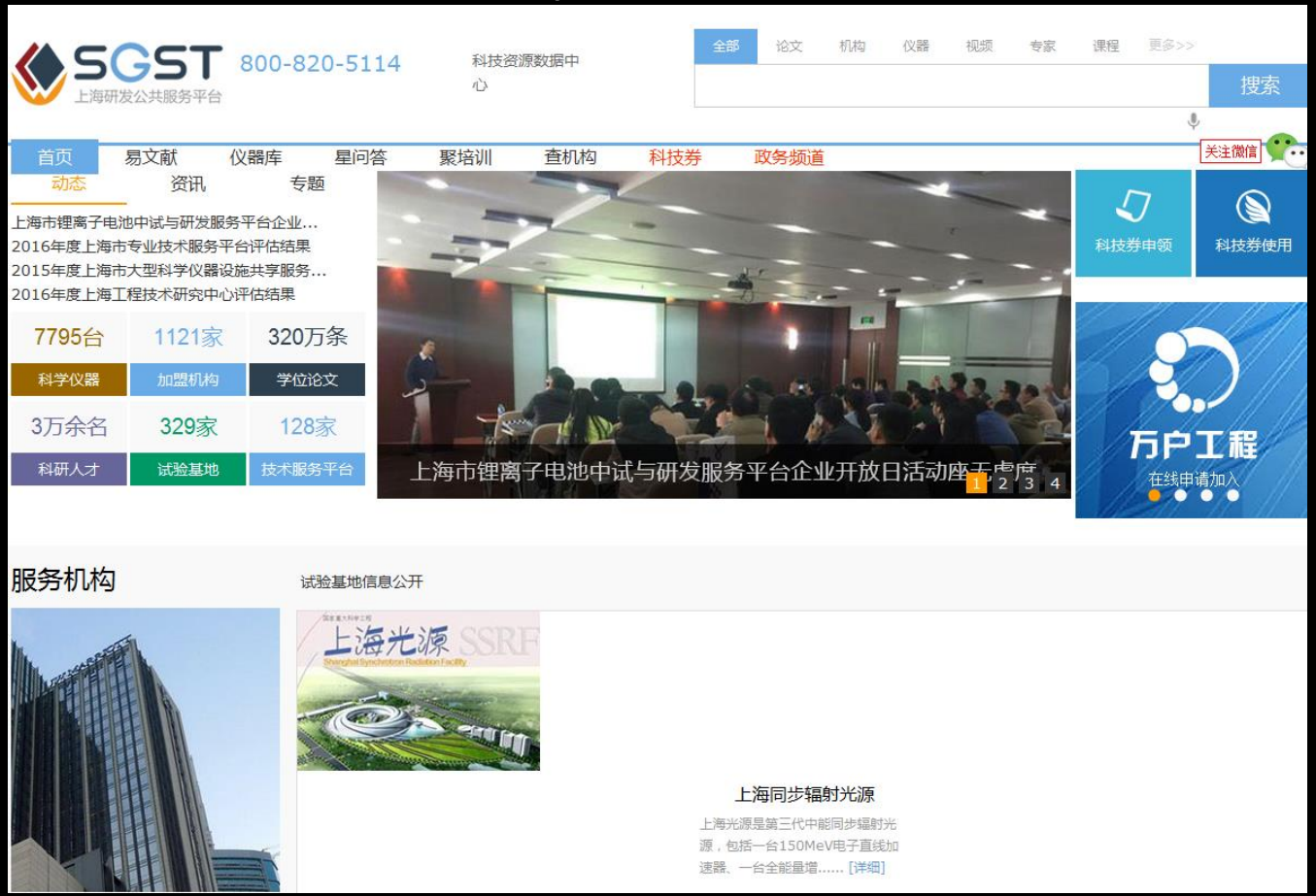
2. National efforts, investments and infrastructure

Ref. http://www.sdtjpt.gov.cn/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Online technology environment
    - - Beijing City
      - Administration: Beijing Scientific Association
      - Funded by: Municipal government, NSTIC
      - Policies: Administration information publicity
      - Feature: Research & education institution resource around Beijing City.

2. National efforts, investments and infrastructure



Ref. http://www.sgst.cn/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Online technology environment
    - - Shanghai City
      - Administration: Shanghai Scientific Association
      - Funded by: Municipal government, NSTIC
      - Policies: Administration information publicity
      - Feature: Science parks resource in Shanghai City.

2. National efforts, investments and infrastructure

Ref. http://www.tjlab.com/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Online technology environment
    - - Tianjing City
      - Administration: Tianjing Scientific Association
      - Funded by: Municipal government, NSTIC
      - Policies: Administration information publicity
      - Feature: Scientific instruments around Tianjing port.

2. National efforts, investments and infrastructure

Ref. http://www.csti.cn/

2. National efforts, investments and infrastructure

- Portal of Chinese Science and Technology Resource
  - Online technology environment
    - - Chongqing City
      - Administration: Beijing Scientific Association
      - Funded by: Municipal government, NSTIC
      - Policies: Administration information publicity
      - Feature: Instruments, literature, public policies in Chongqing City.

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

2. National efforts, investments and infrastructure

- Chinese Academy of Sciences
  - (World Data Centre for Microorgannisms, WDCM)
  - (National Data Sharing Infrastructure of Earth System Science.)

  …

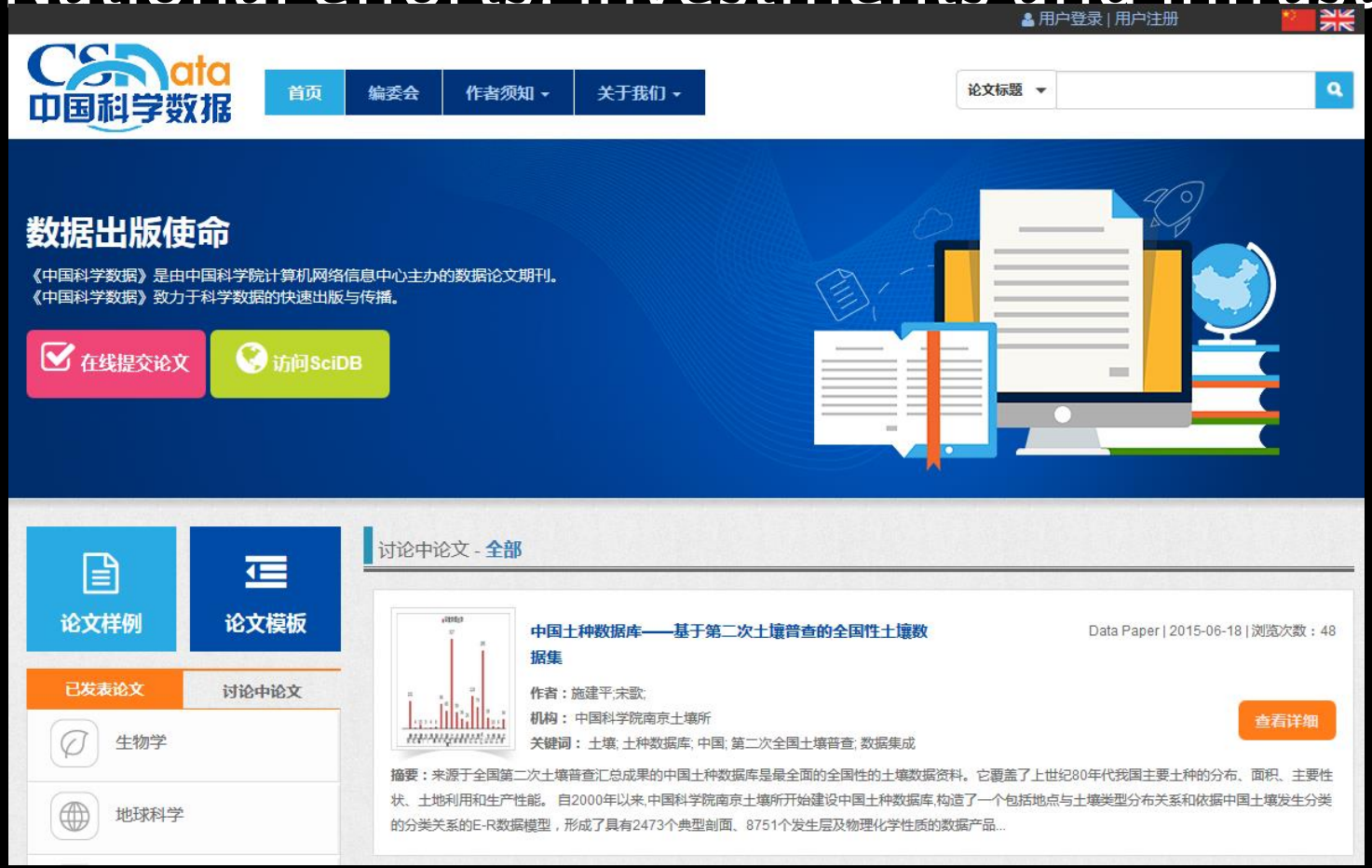
  …
  - Data Cloud of CAS
  - Institutional Repository Grid of CAS

2. National efforts, investments and infrastructure

- Data Cloud of Chinese Academy of Sciences
  - Infrastructure
  - Scientific data
    - -- Data publication
      - -- -- CSData
      - -- -- SciDB
    - …
  - Data application
    - …

Ref. http://www.csdb.cn/

2. National efforts, investments and infrastructure



Ref. http://www.nsdata.cn/

2. National efforts, investments and infrastructure

Ref. http://www.nsdata.cn/

2. National efforts, investments and infrastructure

- Institutional Repository Grid
  - Administration: Each institution of CAS
  - Funded by: Chinese Academy of Sciences
  - Service: linking to Institutional Repository, provides Research article open access
  - Policies: deposit policy, user guideline, rights management statement.

Ref. http://www.csdb.cn/

2. National efforts, investments and infrastructure

Ref. http://www.irgrid.ac.cn/

2. National efforts, investments and infrastructure

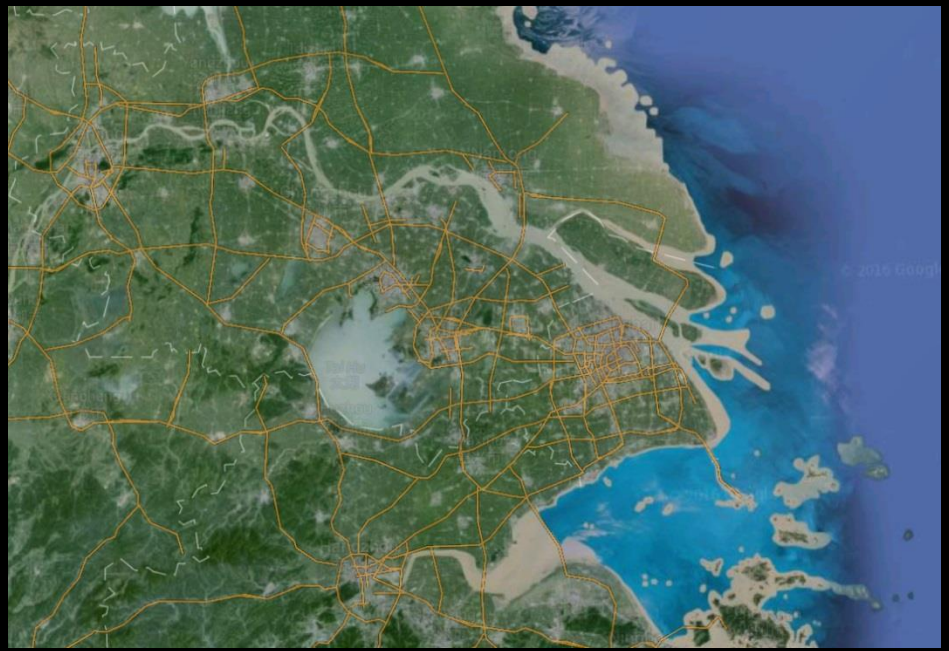
- An Example : A series studies on TAIHU lake
  - Institutional Repository Grid of CAS
  - Data Cloud of CAS
  - National Data Sharing Infrastructure of Earth System Science

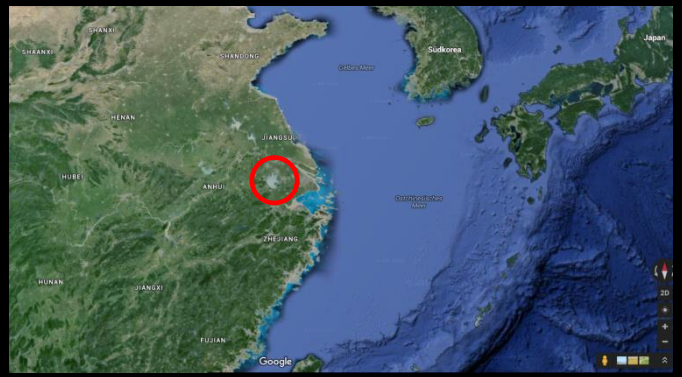
2. National efforts, investments and infrastructure

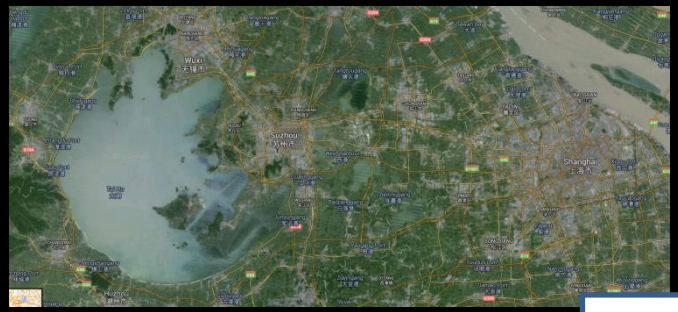
- An Example : A series studies on TAIHU lake
  - Institutional Repository Grid of CAS
    -- Institutional Repository
    -- -- research articles
  - Data Cloud of CAS
    -- data journal
    -- -- data article
  - National Data Sharing Infrastructure of Earth System Science
    -- -- datasets

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake
  - TAIHU lake







Ref. Google Map

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

-- Research articles

Search

Ref. http://www.irgrid.ac.cn/simple-Search?locationed=%2F&query1=%E5%A4%AA%E6%B9%96&field1=all_ac&advanced=false&status=new&go=%E6%A3%80%E

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

linking to IR &Metadata

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

THE ATMOSPHERIC DEPOSITION OF NITROGEN AND PHOSPHORUS NUTRIENTS IN TAIHU LAKE

YANG Long-Yuan, QIN Bo-Qiang, HU Wei-Ping, LUO Lian-Cong, SONG Yu-Zhi
(*Nanjing Institute of Geography and Limnology, Nanjing* 210008)

Abstract Taihu Lake is the third largest freshwater lake of China in southern part of Jiangsu Province, nurturing the most economically developed region including Shanghai, Suzhou, Wuxi, Changzhou cities and so on with high-density population and well-developed industry near Changjiang (Yangtze) River delta. However, this region suffered from environmental pollution and eutrophication by excessive atmospheric nitrogen and phosphorus deposits. To better understand the negative impact for remediation, wet and dry atmospheric deposition of nitrogen and phosphorus and chemical composition of rainwater were sampled and measured from 2002 to 2003 in the lake and the surrounding areas. Results show that the annual average R_t (total apparent deposition rate) was 4226 for TN and 306 for TP in kg/km^2·a. The annual atmospheric load of TN and TP accounted for 48.8% and 46.2% respectively of total point pollution sources from tributary rivers. Atmospheric rainfall was recognized as a major source of TN into Taihu Lake, whereas atmospheric TP is mainly resulted from dry deposition of solid material in aerosol. The amounts of atmospheric nitrogen and phosphorus pollutants deposited into Taihu Lake by light rain were higher than by heavier rain, and the value of R_T peaked in spring (May to March). The current situation may aggravate the eutrophication in the lake area and damage relating aquatic ecosystem in Yangtze River delta.

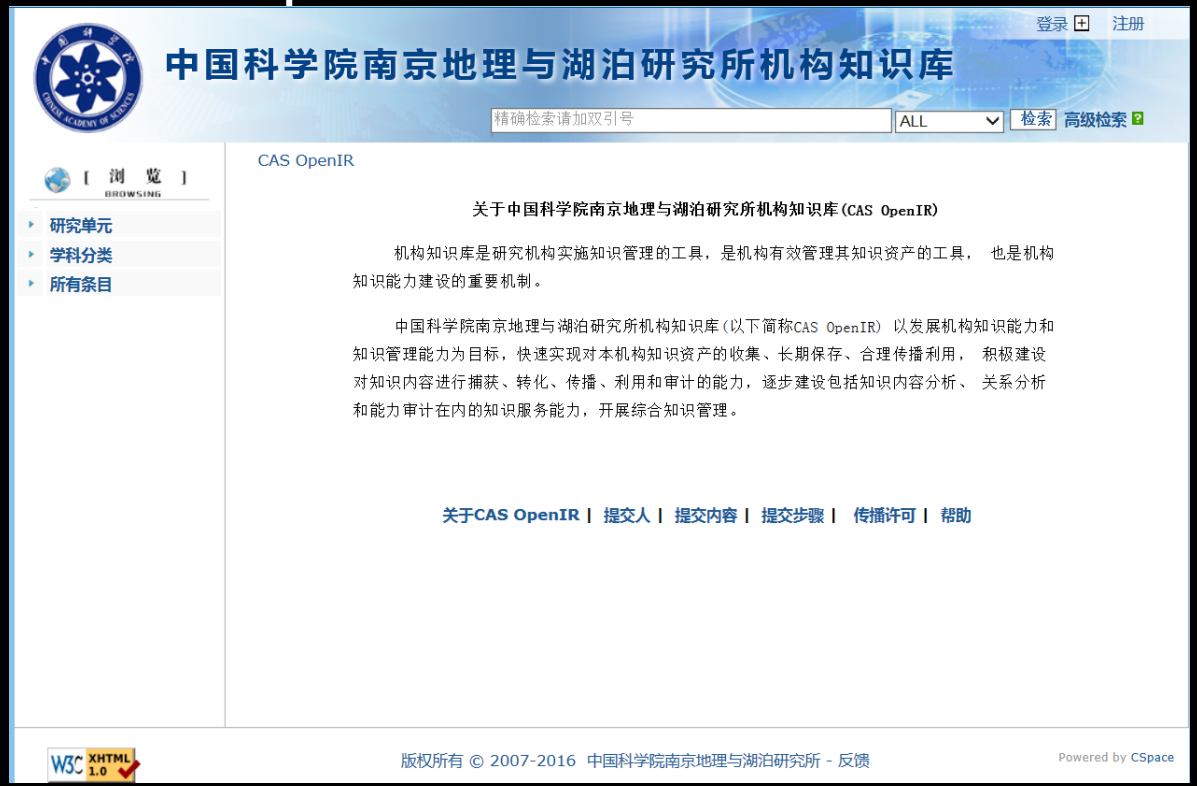
Key words Taihu Lake, Atmospheric Pollution, Wet/dry deposition, Atmosphere-water interface

Article

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

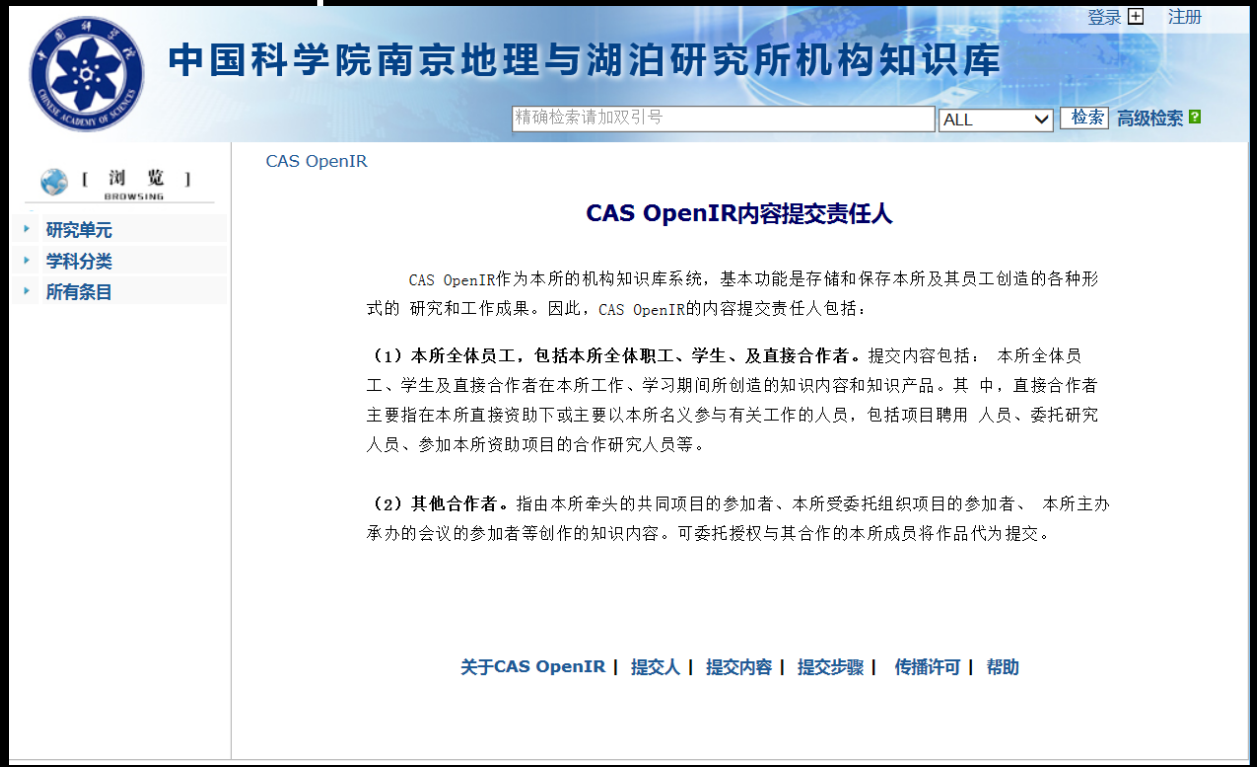


- Synopsis IR
- Policy

Ref. http://159.226.73.51/guiter?id=1

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



- Committer
-Faculty members
-Collaborator

Ref. http://159.226.73.51/guiter?id=2

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

- Document Type

Ref. http://159.226.73.51/guiter?id=3

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

- Submit

Ref. http://159.226.73.51/guiter?id=4

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

- License

Ref. http://159.226.73.51/guiter?id=5

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

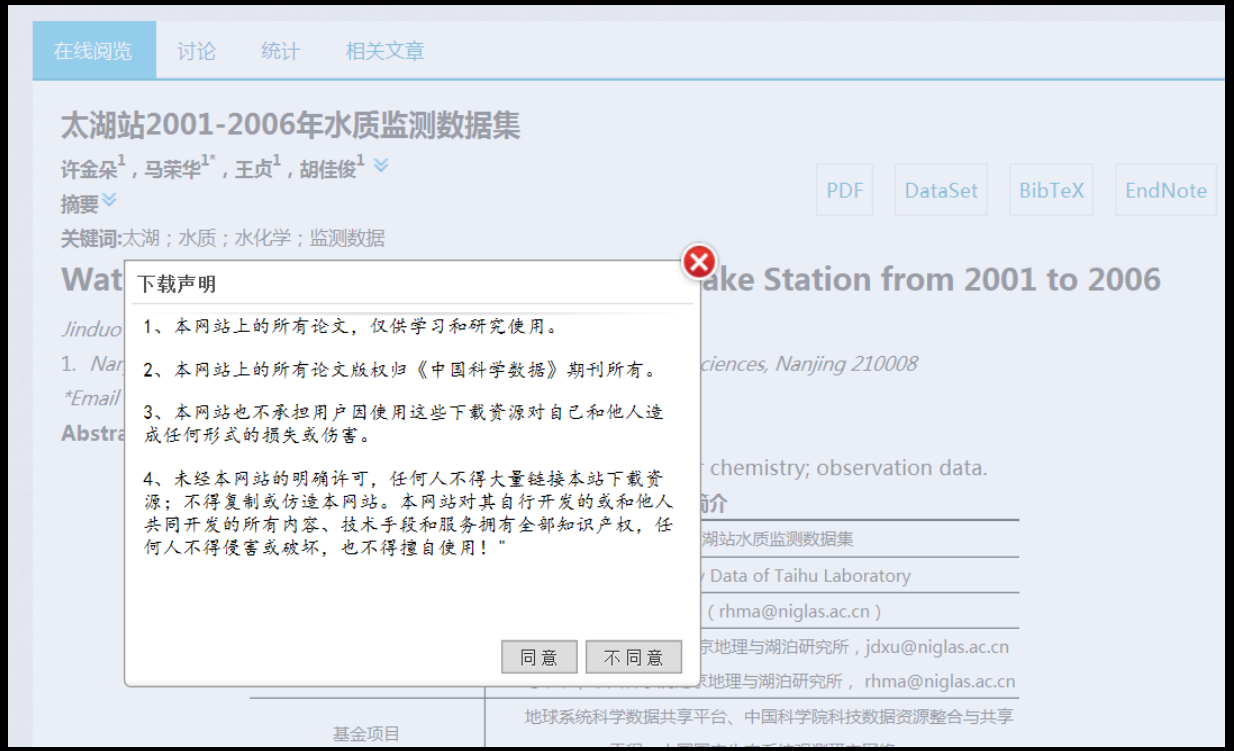
-- Data articles

Search

Ref. http://www.nsdata.cn/paperView?id=14

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



- Download statement

- Purpose;
- Copyright holder;
- Disclaimer;
- Prohibition plagiarism

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

Water Quality Observation Data of Taihu Lake Station from 2001 to 2006

Jinduo Xu[1], Ronghua Ma[1], Zhen Wang[1], Jiajun Hu[1].*

1. Nanjing Institute of Geography & Limnology, Chinese Academy of Sciences, Nanjing 210008

**Email：rhma@niglas.ac.cn*

Abstract: This dataset is sampled from 2001 to 2006 by Taihu Laboratory for Lake Ecosystem Research(TaiLLER is established by Nanjing Institute of Geography & Limnology,Chinese Academy of Sciences. Since 1990s, it has been set to carry out long-term and continuous lake ecological and environmental elements observation such as hydrology, atmosphere, biology, water quality and sediment properties.). The long sequence of water quality monitoring data can response exactly the development trend of water quality change and provide data support for study on eutrophication of lake water environment, water environment protection, pollution control and management. We take international standard data processing method and quality control system to ensure theobservation data quality. We publish these data publiclyand provide online access service for them. These data provide support for the limnologicalresearch.

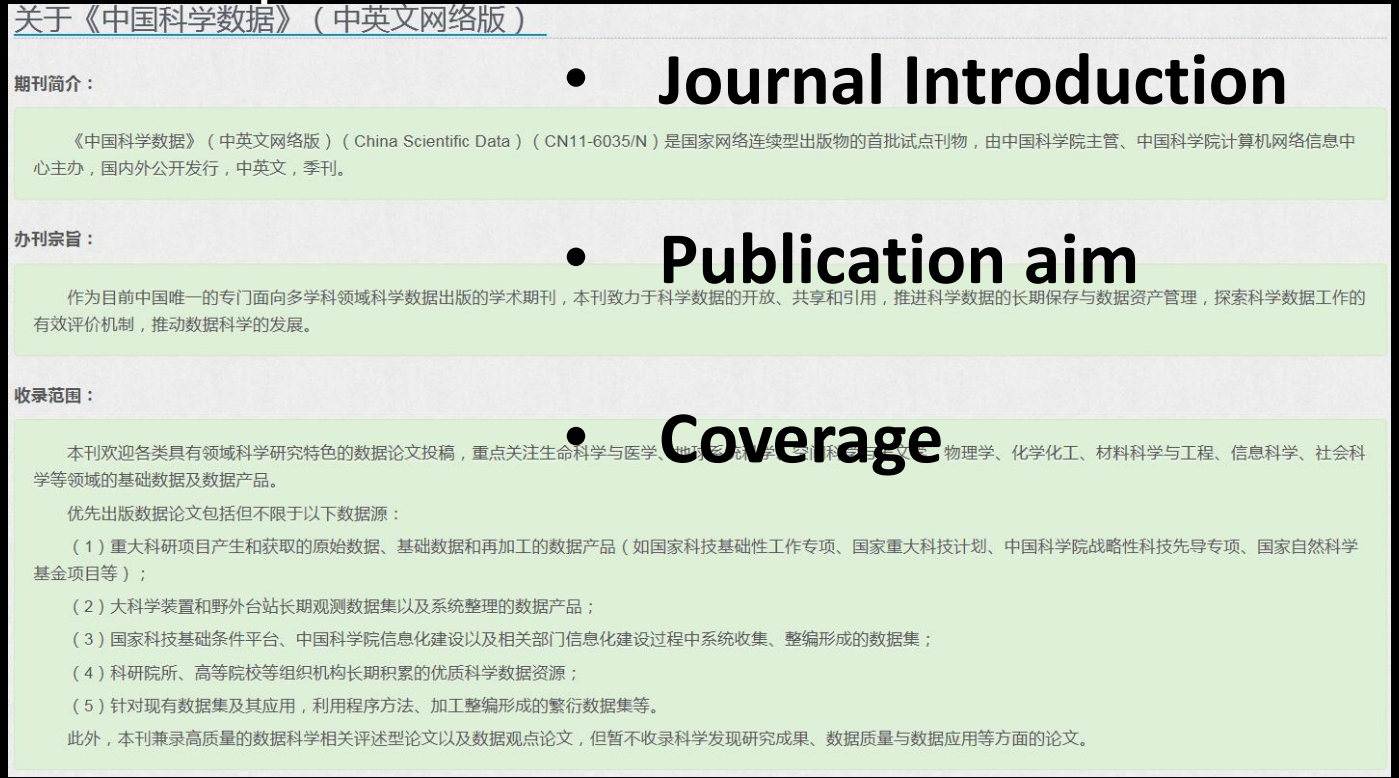
Key words: Taihu Lake; water quality; water chemistry; observation data.

Article

Ref. http://www.nsdata.cn/filedata/14/3/16-太湖站2001-2006年水质监测数据集-出版.pdf

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



关于《中国科学数据》（中英文网络版）

期刊简介：

《中国科学数据》（中英文网络版）（China Scientific Data）（CN11-6035/N）是国家网络连续型出版物的首批试点刊物，由中国科学院主管、中国科学院计算机网络信息中心主办，国内外公开发行，中英文，季刊。

办刊宗旨：

作为目前中国唯一的专门面向多学科领域科学数据出版的学术期刊，本刊致力于科学数据的开放、共享和引用，推进科学数据的长期保存与数据资产管理，探索科学数据工作的有效评价机制，推动数据科学的发展。

收录范围：

本刊欢迎各类具有领域科学研究特色的数据论文投稿，重点关注生命科学与医学、地球科学、农业科学、[illegible]物理学、化学化工、材料科学与工程、信息科学、社会科学等领域的基础数据及数据产品。

优先出版数据论文包括但不限于以下数据源：

（1）重大科研项目产生和获取的原始数据、基础数据和再加工的数据产品（如国家科技基础性工作专项、国家重大科技计划、中国科学院战略性科技先导专项、国家自然科学基金项目等）；

（2）大科学装置和野外台站长期观测数据集以及系统整理的数据产品；

（3）国家科技基础条件平台、中国科学院信息化建设以及相关部门信息化建设过程中系统收集、整编形成的数据集；

（4）科研院所、高等院校等组织机构长期积累的优质科学数据资源；

（5）针对现有数据集及其应用，利用程序方法、加工整编形成的繁衍数据集等。

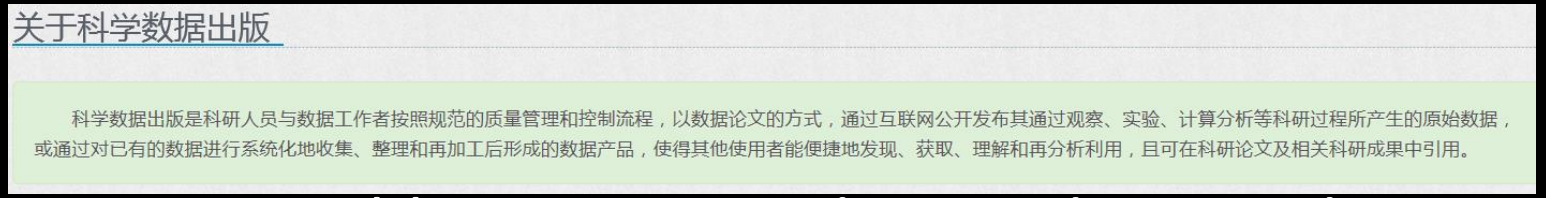
此外，本刊兼录高质量的数据科学相关评述型论文以及数据观点论文，但暂不收录科学发现研究成果、数据质量与数据应用等方面的论文。

- **Journal Introduction**
- **Publication aim**
- **Coverage**

Ref. http://www.nsdata.cn/introduction

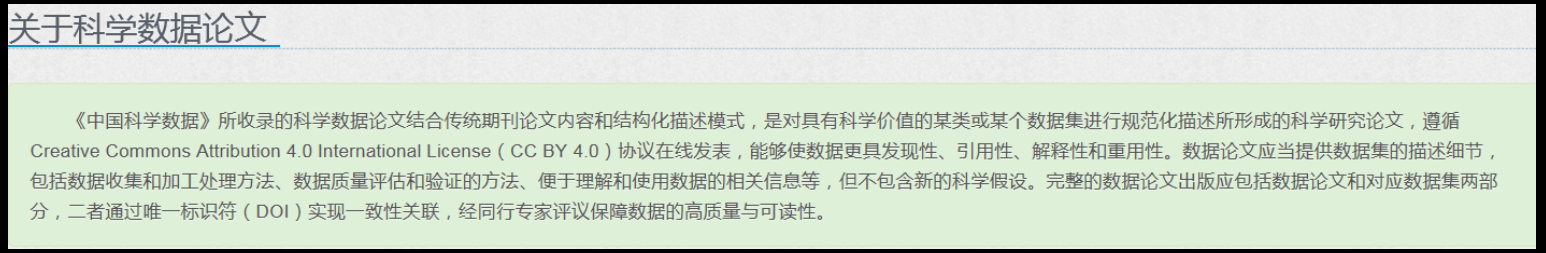
2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake


关于科学数据出版

科学数据出版是科研人员与数据工作者按照规范的质量管理和控制流程，以数据论文的方式，通过互联网公开发布其通过观察、实验、计算分析等科研过程所产生的原始数据，或通过对已有的数据进行系统化地收集、整理和再加工后形成的数据产品，使得其他使用者能便捷地发现、获取、理解和再分析利用，且可在科研论文及相关科研成果中引用。

- Data publication: Raw data or data production.


关于科学数据论文

《中国科学数据》所收录的科学数据论文结合传统期刊论文内容和结构化描述模式，是对具有科学价值的某类或某个数据集进行规范化描述所形成的科学研究论文，遵循Creative Commons Attribution 4.0 International License（CC BY 4.0）协议在线发表，能够使数据更具发现性、引用性、解释性和重用性。数据论文应当提供数据集的描述细节，包括数据收集和加工处理方法、数据质量评估和验证的方法、便于理解和使用数据的相关信息等，但不包含新的科学假设。完整的数据论文出版应包括数据论文和对应数据集两部分，二者通过唯一标识符（DOI）实现一致性关联，经同行专家评议保障数据的高质量与可读性。

- Data paper: DOI, CC-BY 4.0.
- Principle: accessable, reusable, citatable.

Ref. http://www.nsdata.cn/introduction

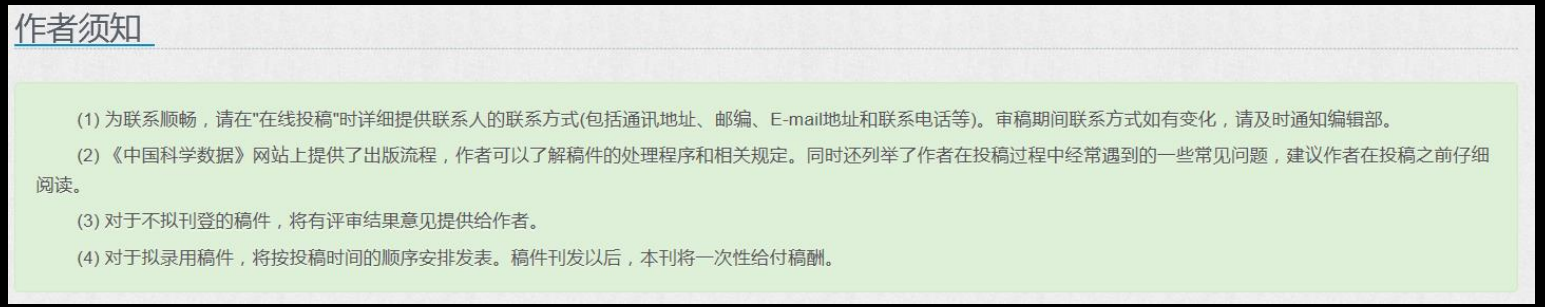
2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



作者须知

(1) 为联系顺畅，请在"在线投稿"时详细提供联系人的联系方式(包括通讯地址、邮编、E-mail地址和联系电话等)。审稿期间联系方式如有变化，请及时通知编辑部。

(2) 《中国科学数据》网站上提供了出版流程，作者可以了解稿件的处理程序和相关规定。同时还列举了作者在投稿过程中经常遇到的一些常见问题，建议作者在投稿之前仔细阅读。

(3) 对于不拟刊登的稿件，将有评审结果意见提供给作者。

(4) 对于拟录用稿件，将按投稿时间的顺序安排发表。稿件刊发以后，本刊将一次性给付稿酬。

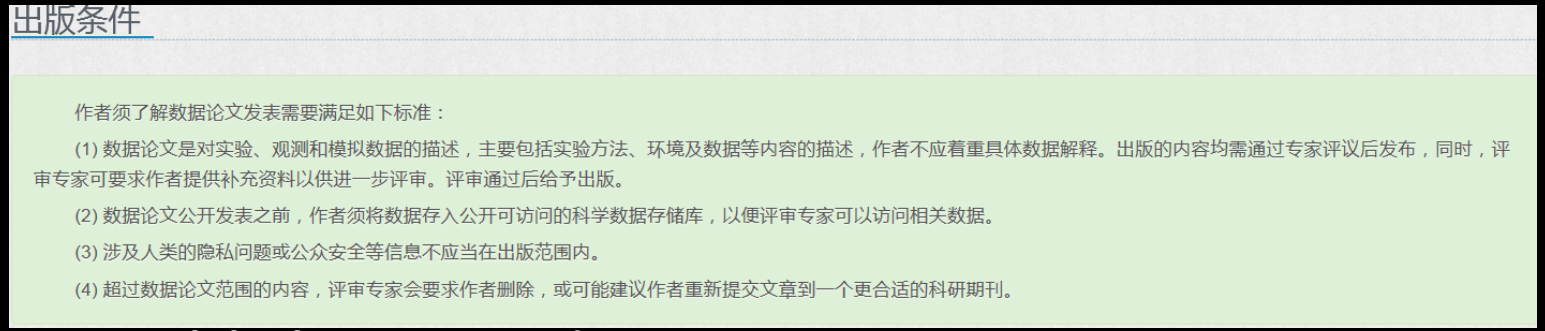
- Instructions to authors

- Author’s information;
- Pls read the publishing process tips;
- Reject with review option;
- Accepted with copyright royalty

Ref. http://www.nsdata.cn/guidelines

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



出版条件

作者须了解数据论文发表需要满足如下标准：

(1) 数据论文是对实验、观测和模拟数据的描述，主要包括实验方法、环境及数据等内容的描述，作者不应着重具体数据解释。出版的内容均需通过专家评议后发布，同时，评审专家可要求作者提供补充资料以供进一步评审。评审通过后给予出版。

(2) 数据论文公开发表之前，作者须将数据存入公开可访问的科学数据存储库，以便评审专家可以访问相关数据。

(3) 涉及人类的隐私问题或公众安全等信息不应当在出版范围内。

(4) 超过数据论文范围的内容，评审专家会要求作者删除，或可能建议作者重新提交文章到一个更合适的科研期刊。

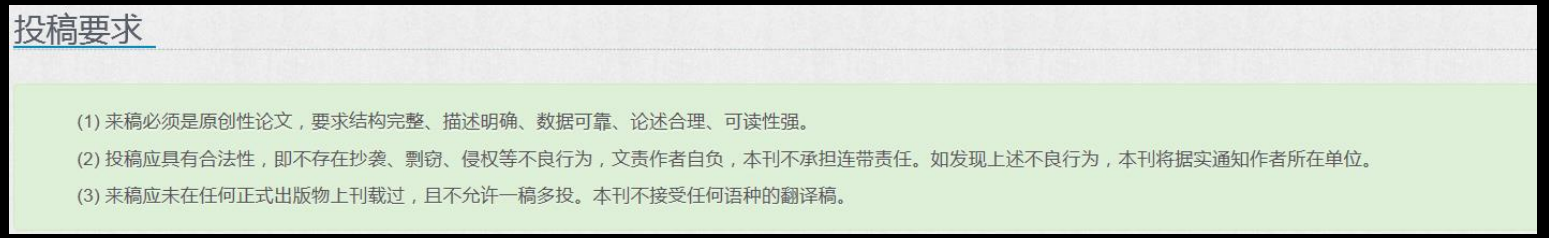
- Publishing conditions

- Focus on data content description, not data.
- Data has been being in public data repository.
- Data without privacy and public safety problem
- Reviewers may require to increase or reduce content

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



- Submission requirements

- Originality: structural integrity, description clarity, data reliability, discusses readability.

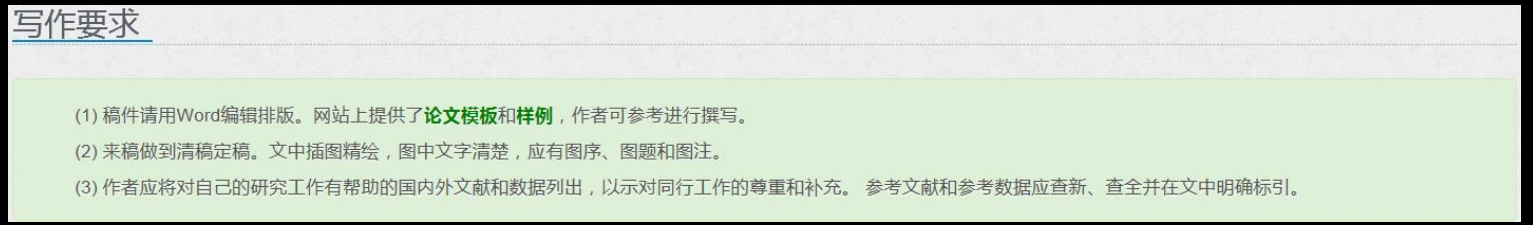
-Legitimacy: no plagiarism and infringement.

-Prohibit multiple contributions or repetitive publication(incl. translated manuscript).

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake


写作要求

(1) 稿件请用Word编辑排版。网站上提供了**论文模板**和**样例**，作者可参考进行撰写。

(2) 来稿做到清稿定稿。文中插图精绘，图中文字清楚，应有图序、图题和图注。

(3) 作者应将对自己的研究工作有帮助的国内外文献和数据列出，以示对同行工作的尊重和补充。 参考文献和参考数据应查新、查全并在文中明确标引。

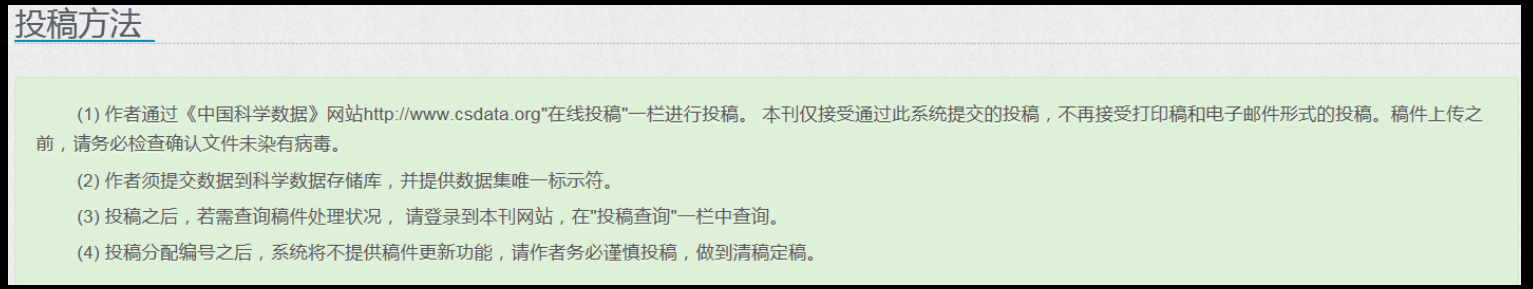
- Writing Requirements

- Templates and sample papers
- Final submission draft
- Reference correct.

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake


投稿方法

(1) 作者通过《中国科学数据》网站http://www.csdata.org"在线投稿"一栏进行投稿。 本刊仅接受通过此系统提交的投稿，不再接受打印稿和电子邮件形式的投稿。稿件上传之前，请务必检查确认文件未染有病毒。

(2) 作者须提交数据到科学数据存储库，并提供数据集唯一标示符。

(3) 投稿之后，若需查询稿件处理状况， 请登录到本刊网站，在"投稿查询"一栏中查询。

(4) 投稿分配编号之后，系统将不提供稿件更新功能，请作者务必谨慎投稿，做到清稿定稿。

- Submission

- Official website is the only submission way.

Data repository and DOI

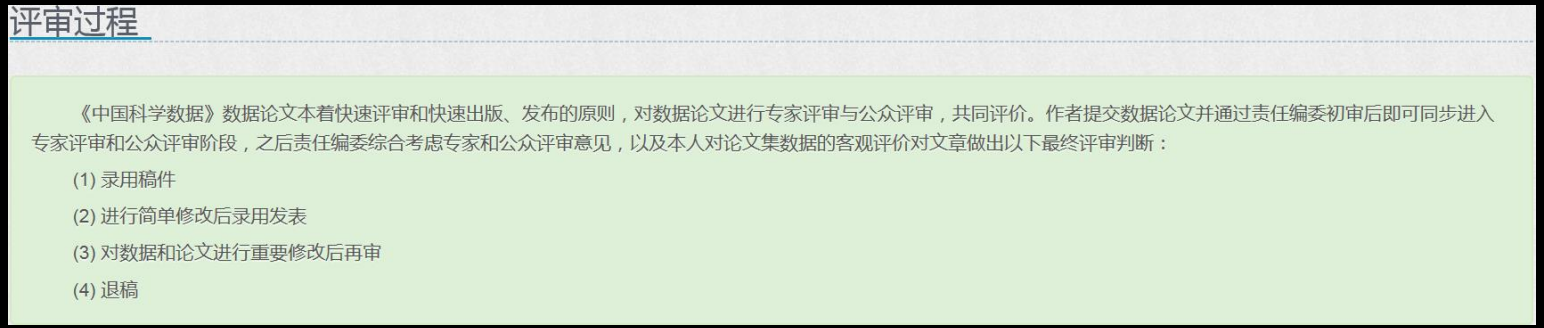
You can search process in official website

Each paper has only one number

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



评审过程

《中国科学数据》数据论文本着快速评审和快速出版、发布的原则，对数据论文进行专家评审与公众评审，共同评价。作者提交数据论文并通过责任编委初审后即可同步进入专家评审和公众评审阶段，之后责任编委综合考虑专家和公众评审意见，以及本人对论文集数据的客观评价对文章做出以下最终评审判断：

(1) 录用稿件

(2) 进行简单修改后录用发表

(3) 对数据和论文进行重要修改后再审

(4) 退稿

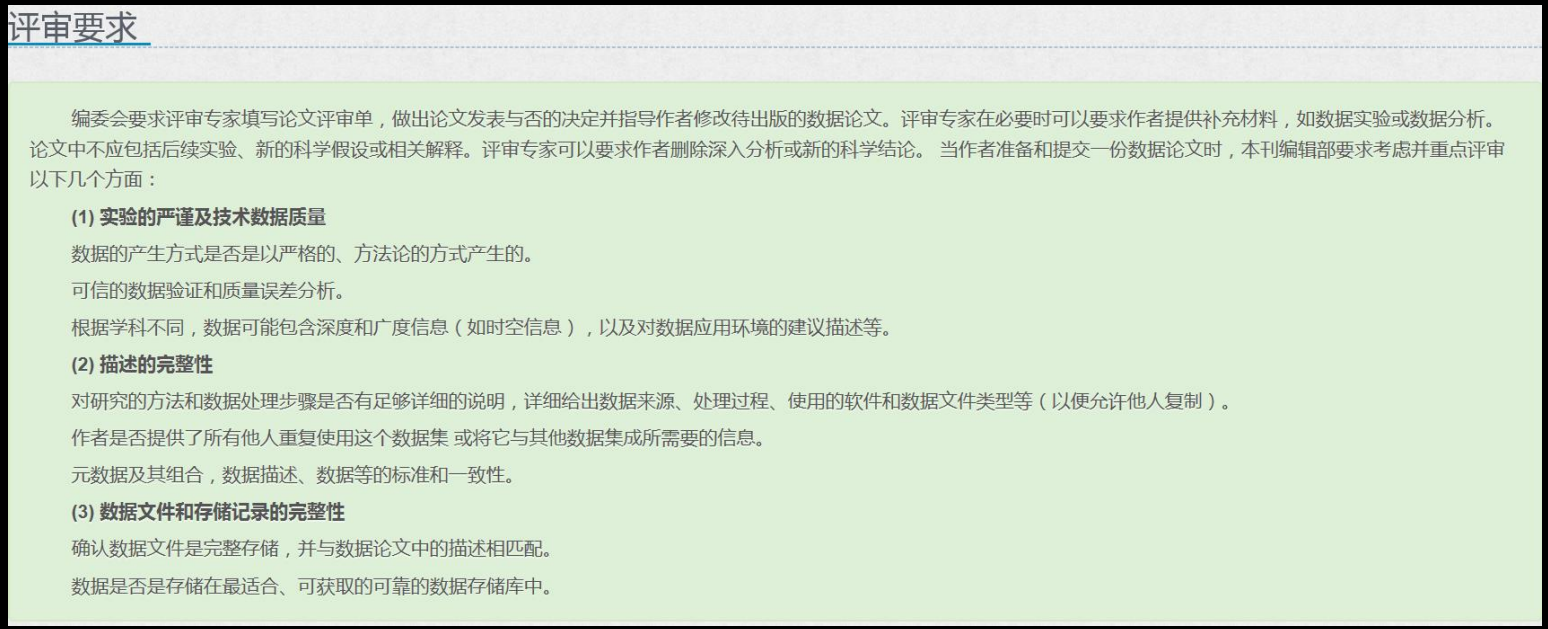
- Review process

- Experts review
- Public review
- Final review is the comprehensive review

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



评审要求

编委会要求评审专家填写论文评审单，做出论文发表与否的决定并指导作者修改待出版的数据论文。评审专家在必要时可以要求作者提供补充材料，如数据实验或数据分析。论文中不应包括后续实验、新的科学假设或相关解释。评审专家可以要求作者删除深入分析或新的科学结论。 当作者准备和提交一份数据论文时，本刊编辑部要求考虑并重点评审以下几个方面：

(1) 实验的严谨及技术数据质量

数据的产生方式是否是以严格的、方法论的方式产生的。

可信的数据验证和质量误差分析。

根据学科不同，数据可能包含深度和广度信息（如时空信息），以及对数据应用环境的建议描述等。

(2) 描述的完整性

对研究的方法和数据处理步骤是否有足够详细的说明，详细给出数据来源、处理过程、使用的软件和数据文件类型等（以便允许他人复制）。

作者是否提供了所有他人重复使用这个数据集 或将它与其他数据集成所需要的信息。

元数据及其组合，数据描述、数据等的标准和一致性。

(3) 数据文件和存储记录的完整性

确认数据文件是完整存储，并与数据论文中的描述相匹配。

数据是否是存储在最适合、可获取的可靠的数据存储库中。

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake
  - Data Cloud of CAS

    -- data journal

    -- -- data article

    - **Criteria**

    - Rigorousness of experiment & data quality

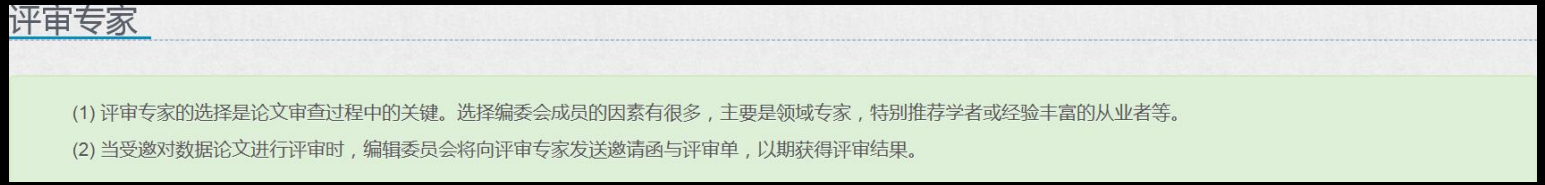
    - Integrity of description

    - Integrity of data documents and records

Ref. http://159.226.73.51/handle/332005/5135

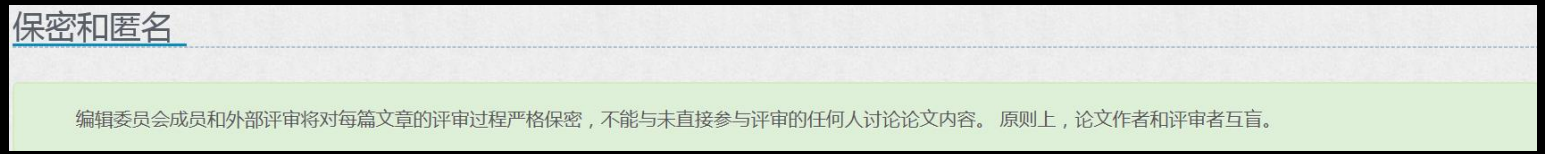
2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



- Peer-Review Persons

- Domain experts
- Structured review items list



- Confidential and anonymous

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

计费标准

在中国科学数据出版[illegible]

	价格	服务特色	更多服务
数据论文出版费 (Data Paper Publishing Charge, DPPC)	优惠期暂免（￥3000）	论文版面费 ● 专业：不少于两名资深同行专家匿名评审 ● 规范：数据论文定稿的审校、编辑排版 ● 便捷：稳定的数据论文在线查询访问与下载服务；免费的数据描述工具和统一规范 ● 开放：来自一线用户的交互评价；全方位的媒体宣传与行业关注度；持续增加的数据库收录 ● 持续：标准化的元数据与简单易用的数据描述	● 数据深度加工与价值增值服务请访问datamarket.csdb.cn或联系datamarket@cnic.cn ● 数据论文出版费减免政策咨询请联系csdata@cnic.cn
		数据长期保存费 ● 10GB十年归档保存的标准服务套餐 ● 稳定可用的数据唯一标识	● 更多数据长期归档保存服务需求请联系csdata@cnic.cn

- **Article Process Charge, 3000 RMB (c.a. 407 EUR, 465 USD)**
- **Add-value service**

Ref. http://159.226.73.51/handle/332005/5135

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

-- Dataset

Search
Browse

Ref. http://www.geodata.cn/data/dataresource.html

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

- Metadata of dataset

Ref. http://www.geodata.cn/data/datadetails.html?dataguid=23392619680528&docId=270

2. National efforts, investments and infrastructure

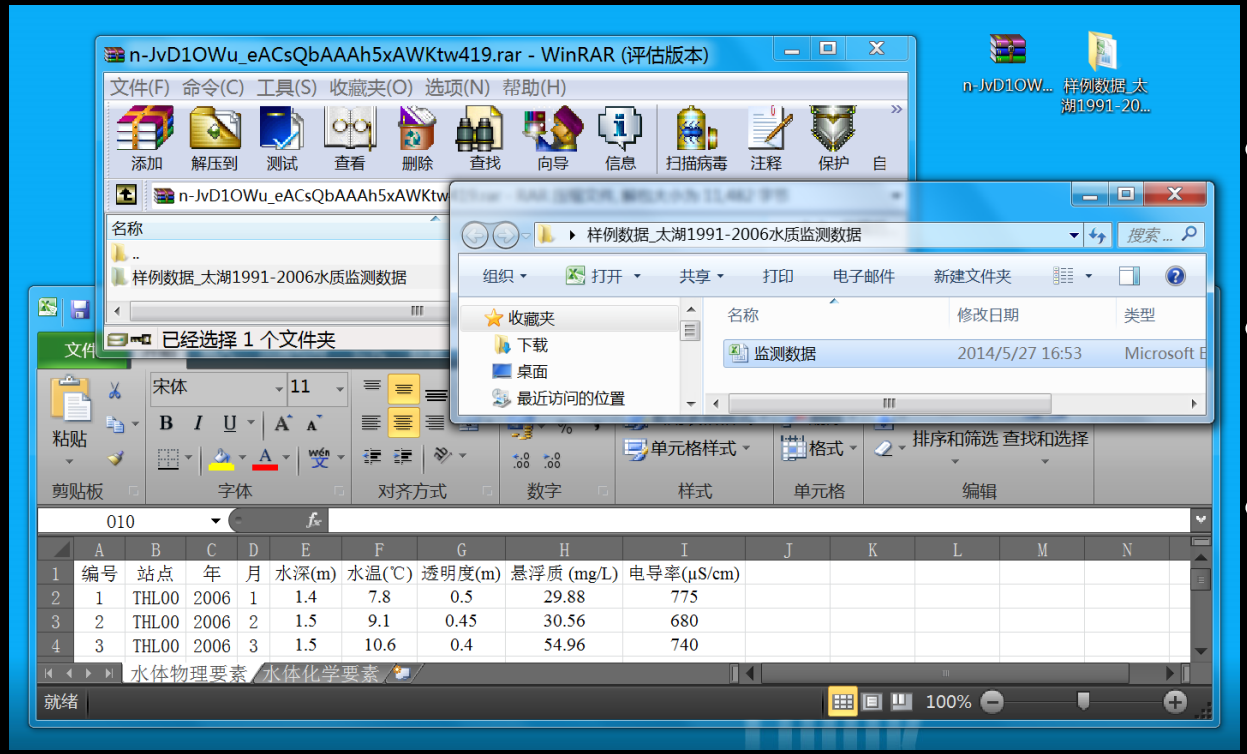
- An Example : A series studies on TAIHU lake

- Data descrition
- observatory
- elaboration
- quality

Ref. http://www.geodata.cn/data/datadetails.html?dataguid=23392619680528&docId=270

2. National efforts, investments and infrastructure

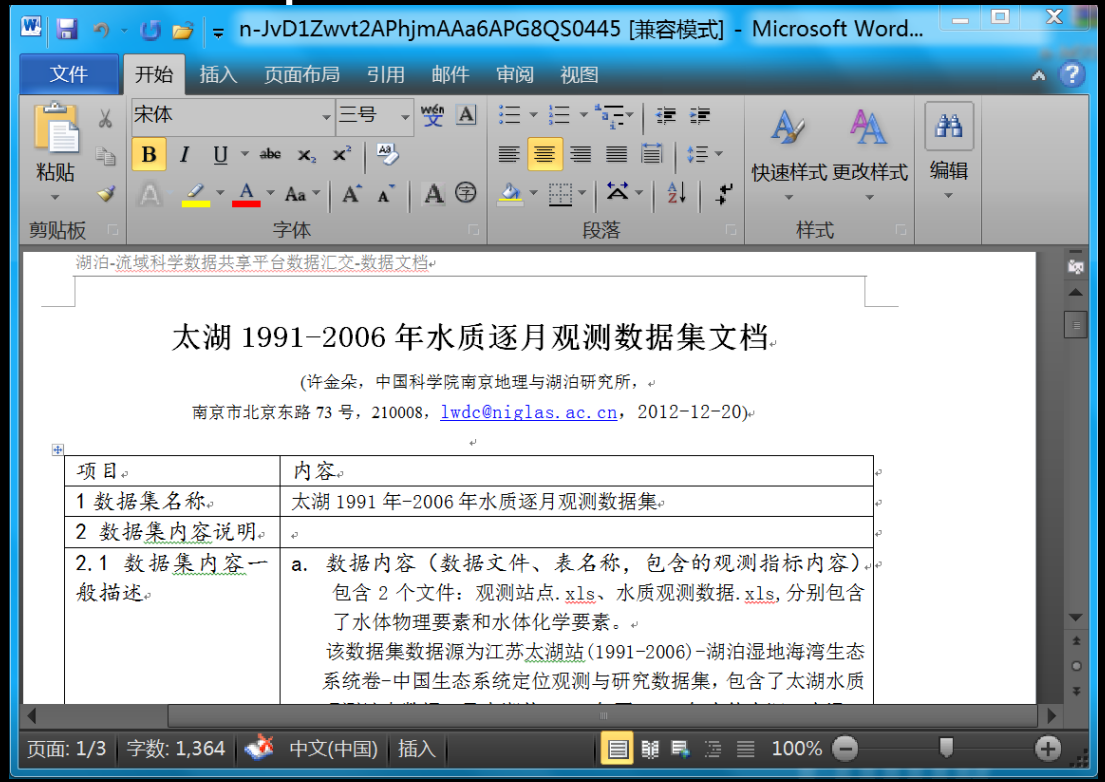
- An Example : A series studies on TAIHU lake



- Download .rar file
- Open the file
- Get the .csv file

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake



2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

数据使用声明

为尊重知识产权、保障数据作者和数据服务提供者的权益，请数据使用者在基于本数据所产生的研究成果（包括项目评估报告、验收报告，以及学术论文或毕业论文等）中标注数据来源和数据作者，并按照**[数据引用方式]**标注需引用的内容，并将可公开成果提交到"国家地球系统数据共享平台（http://www.geodata.cn）"。

数据来源引用参考以下规范：

中文发表的成果：数据来源于国家科技基础条件平台—国家地球系统数据共享平台(http://www.geodata.cn)；

英文发表的成果： National Science & Technology Infrastructure of China， Data Sharing Infrastructure of Earth System Science (http://www.geodata.cn)。

致谢方式参考以下规范：

"感谢国家地球系统数据共享平台(http://www.geodata.cn)提供数据支撑。"

***未经许可，用户不得转让本网站数据，不得以任何形式和媒体传播在本网站获取数据。**

- Data use policy

Ref. http://www.geodata.cn/data/datadetails.html?dataguid=23392619680528&docId=270

2. National efforts, investments and infrastructure

An Example : A series studies on TAIHU lake

数据详细描述 | 数据引用方式 | 数据附件 | 相关文献

为尊重知识产权、保障数据作者和数据服务提供者的权益，请数据使用者在基于本数据所产生的研究成果（包括项目评估报告、验收报告，以及学术论文或毕业论文等）中标注数据来源和数据作者，并按照[数据引用方式]标注需引用的内容，并将可公开成果提交到"国家地球系统数据共享平台—湖泊—流域科学数据中心（http://lake.data.ac.cn）"。

数据来源引用参考以下规范：

中文发表的成果：数据来源于国家科技基础条件平台—国家地球系统数据共享平台—湖泊—流域科学数据中心(http://lake.data.ac.cn)；

英文发表的成果：

National Science & Technology Infrastructure of China， Data Sharing Infrastructure of Earth System Science – Lake–Watershed Science Data Center (http://lake.data.ac.cn)。

致谢方式参考以下规范：

"感谢国家地球系统数据共享平台-湖泊—流域科学数据中心(http://lake.data.ac.cn)提供数据支撑。"

在应用成果中表明：

[1]秦伯强.太湖1991-2006年水质监测数据集.国家地球系统科学数据共享平台分平台—湖泊-流域科学数据中心.2007.

[2]使用太湖站数据发表相关成果（文章、报告、著作及其他任何具有版权属性）时，必须注明数据来源：中国生态系统研究网络太湖湖泊生态系统研究站或CNERN,Taihu Laboratory for Lake Econsystem Research，缩写为CNERN TaiLLER

- Citation suggestion

- Please respect the intellectual property and author's scientific contribution
- Data source reference
- Acknowledgements

Ref. http://www.geodata.cn/data/datadetails.html?dataguid=23392619680528&docId=270

2. National efforts, investments and infrastructure

An Example : A series studies on TAIHU lake

数据详细描述 | 数据引用方式 | 数据附件 | 相关文献

数据文档

数据文档_太湖1991-2006年水质逐月观测数据集.doc 下载

数据样例

样例数据_太湖1991-2006水质监测数据.rar 下载

使用本数据的用户

kxsjy**	南京师范大学	其他用途:温度条件与**	2016/04/08
我要死扛太**	中国地质大学（武汉）	其他用途:顾及测量误**	2016/03/17
我要死扛太**	中国地质大学（武汉）	其他用途:顾及测量误**	2016/03/17
Pengj**	中国科学院南京地理与湖泊研究所	硕士论文:太湖流域河**	2015/12/16
taoyu**	中国科学院南京地理与湖泊研究所	国家自然科学基金:太湖蓝藻水**	2015/08/27
huifa**	中科院南京地理与湖泊研究所	中国科学院项目:长江中下游**	2015/01/04

- Supplement materials
- Documentation (how use the data)
- Sample data

Ref. http://www.geodata.cn/data/datadetails.html?dataguid=23392619680528&docId=270

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

- Data access process
- Order data
- Fill list of use purpose
- Waiting for human review
- Download

Ref. http://www.geodata.cn/data/datadetails.html?dataguid=23392619680528&docId=270

2. National efforts, investments and infrastructure

- An Example : A series studies on TAIHU lake

Ref. http://auth.geodata.cn/login?service

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

2. National efforts, investments and infrastructure

- Others
  - Survey and Data Center of CASS (Chinese Academy of Social Sciences)
  - National Science and Technology Report Service
  - National Science and Technology Information System, Public Service Platform

2. National efforts, investments and infrastructure

Ref. http://db.cssn.cn/sjxz/

2. National efforts, investments and infrastructure

- Others

  - Survey and Data Center of CASS (Chinese Academy of Social Sciences)

    - Supervised by : CASS
    - Funded by: National Planning Office of Philosophy and Social Science, CASS
    - Service:

      National Journals database,
      Social Science Survey project items and data,
      Interview video, Classics

2. National efforts, investments and infrastructure

Ref. http://www.nstrs.cn/index2.aspx/

2. National efforts, investments and infrastructure

- Others

  - National Science and Technology Report Service

    - Supervised by : MoST
    - Funded by: MoST
    - Service:

      Public: view report abstract

      Experts: view report full text

      Administor: statistic service
    - Standards: Confidential Class; Coding rules; Report format; Metadata.

2. National efforts, investments and infrastructure

Ref. http://service.most.gov.cn/kyzy/

2. National efforts, investments and infrastructure

- Others

  - National Science and Technology Information System, Public Service Platform

  - Supervised by: MoST
  - Funded by: MoST
  - Service:

    Public: query project items

    Institution: up and load project items data

    Experts: peer-review projects

2. National efforts, investments and infrastructure

- Key points

  - Subjects of implemented national open data policy are MoT, CAS, CASS, others (Uni Peiking etc.)
  - Facet of implementing research data management are scientific domain, administrative area, IT approach.
  - Construction tools are data center, data repository, institutional repository.

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

3. Future prospects for next years of open science

- Marco social-economic policies
  - National government
  - Research funding agencies
  - Research and education institutions
  - Library and information centers
  - Publishing groups and service providers

3. Future prospects for next years of open science

- Micro implementation guideline
  - Academic journals' data sharing policy
  - Data journal policy
  - Data repository policy
  - Institutional repository policy
  - Subject repository policy
  - Data management plan
  - Data management service
  - Data curation policy
  - Data level metric

Outline

1. Current policy and government strategy
   - *1-1. Five years plan 2016-2020*
   - *1-2. Major works in 2016*
2. National efforts, investments and infrastructure
   - *2-1. Portal of Chinese Science and Technology Resource*
   - *2-2. Chinese Academy of Sciences*
   - *2-3. Other infrastructures*
3. Future prospects for next years of open science
   - *3-1. Marco social-eco policy and micro implement guide*
   - *3-2. Promotion activities*

3. Future prospects for next years of open science

- Promotion Activities
  - 2016 China Fair Use Week
  - 2016 Chinese Institutional Repository Conference
  - 2016 China Open Access Week
  - 2017 China Data Librarian Workshop

3. Future prospects for next years of open science

- Promotion Activities
  - First China Fair Use Week
    - Topics: Library services and copyright issues, Data rights and data governance policies
    - Date: 19-20 May 2016
    - Location: Chinese Academy of Sciences
      Peking University
    - Scale: 100 persons

Ref. http://fairuseweek2016.csp.escience.cn/dct/page/1

3. Future prospects for next years of open science

- Promotion Activities
  - 4th Chinese Institutional Repository Conference
    - Topic: Data management services
    - Date: 21-22 September 2016
    - Location: Chongqing Uni.
    - Scale: 300 persons

    - History: it has 275 participants in 2015

Ref. http://news.sjtu.edu.cn/info/1003/745034.htm

3. Future prospects for next years of open science

- Promotion Activities
  - 5th China Open Access Week
    - Topics: Open publication, Open Repository, Open Data
    - Date: 17-18 October 2016
    - Location: CAS, Beijing
    - Scale: 400 persons

    - History: it has 430 participants in 2015

Ref. http://www.las.cas.cn/xwzx/zyxw/201510/t20151022_4443571.html

3. Future prospects for next years of open science

- Promotion Activities
  - 2th China Data Librarian Workshop
    - Topics: Big data analysis, Intellectual property rights
    - Date: March 2017
    - Location: Beijing
      Shanghai
    - Scale: 200 persons

    - History: it has 90 participants in March 2016

Ref. http://www.jlis.cn/jtlsc/ch/reader/view_news.aspx?id=20160331045016711

3. Future prospects for next years of open science

- Key Points
  - Data rights management
    -- intellectual property rights
    -- open access
  - Big Data
    -- data analyst, data engineer, data curator
    -- social-economic benefit
  - Institutional Repository Network
    -- (COAR 2017 , OR 2018 in China?)

Overview

1. Current policy and government strategy
   1-1. Five years plan 2016-2020
   1-2. Major works in 2016
2. National efforts, investments and infrastructure
   2-1. Portal of Chinese Science and Technology Resource
   2-2. Chinese Academy of Sciences
   2-3. Other infrastructures
3. Future prospects for next years of open science
   3-1. Marco social-eco policy and micro implement guide
   3-2. Promotion activities

Thanks for your attention
Welcome to discuss

Speaker [Li-Ping Ku (Alan Ku)]
Email address [gulp@mail.las.ac.cn]
Office Telephone [+86-10-62537995]