

THE NEW RESEARCH ASSESSMENT REFORMS IN CHINA---ERADICATING THE 'FIVE ONLY' IN S&T MANAGEMENT

National Science Library, Chinese Academy of Sciences (CAS)

Xiwen Liu, Yan Zeng, Junpeng Yuan





02 Related Policies

13 The Efforts of NSL



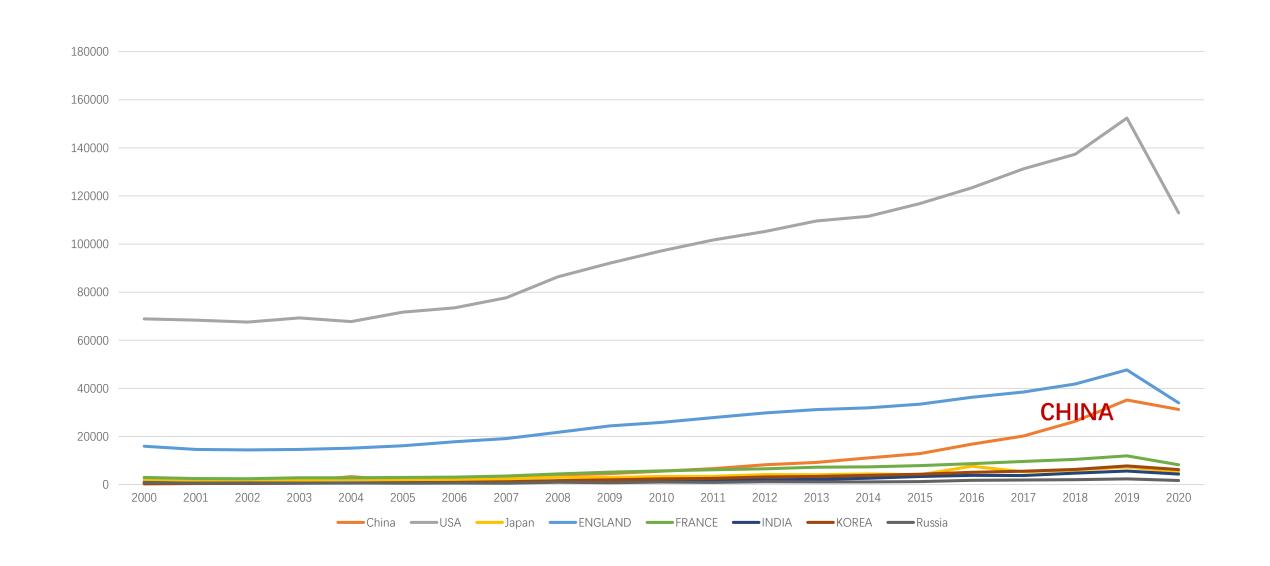
ERADICATING THE 'FIVE ONLY'

The Background

What's the 'Five Only'

- In November 2018, <u>the Ministry of Science and Technology (MOST)</u>, <u>Human Resources and Social Security Ministry</u>, <u>Chinese Academy of Sciences (CAS)</u> and <u>Chinese Academy of Engineering (CAE)</u> began to clean up "only academic papers, only professional titles, only educational background, only awards".
- Therefore, scientific research institutions began to eradicate "only academic papers, only talent titles, only professional titles, only educational background, only awards" in research assessment. (hereinafter referred to as the "Five Only").

The Background



The Background

ONLY FIVE





Taking SCI as the main assessment index results in a serious lack of high-quality paper for domestic journal.

Scientific research culture

Change the emphasis on quantity over quality.

The selection of young talents

The selection of talents with professional and talent titles is not conducive to the selection of young talents.

Types of scientific research achievements

Taking paper as the main assessment dimension is

Taking paper as the main assessment dimension is not conducive to the diversity of scientific research achievements.

ERADICATING THE 'FIVE ONLY'

RELATED POLICY

2018.05

■ Guiding Opinions on promoting the Reform of talent Assessment Mechanism by classification Issued by The General Office of the Communist Party of China

(CPC) Central Committee and the General Office of the State Council.

2018.02

A classified assessment system based on the quality, contribution and performance of scientific and technological innovation, president Xi Jinping said at the meeting of Academician of Chinese Academy of Sciences and Chinese Academy of Engineering.

2018.07

Opinions on
 Deepening Reform of
 Project Assessment,
 Talent Assessment
 and Organization
 Assessment by the
 State Council.

2018.11

2018.09

At the National Education
Conference, President Xi jinping
called for resolute efforts to
overcome longstanding
problems that focus only on
academic scores, advanced
degrees, diplomas, titles

Notice on the special action of clearing up "Only papers, only titles, only academic qualifications and only awards", MOST. 2019.04

Some opinions of <u>Tsinghua</u>
 <u>University</u> on perfecting
 the Academic
 assessment System

2020.02

According to "only academic" and "only contribution", the natural Science Foundation of China (NSFC) puts forward four assessment criteria about innovation in talent project assessment

2019.08

Technology assessment (Trial),
Some Opinions on Standardizing
the Use of Related Indexes of SCI
Papers in Colleges and Universities
and Establishing Correct
Orientation of assessment

Fujian Provincial
 Department of Science
 and Technology issued a
 notice on Measures to
 Break the Poor Orientation of "Only Papers" in
 Science and Technology assessment (Trial)

2020.07

The Department of Science and
Technology of Jilin province
and Jiangsu province issued a
notice on Measures to Break the
Poor Orientation of "Only
Papers" in Science and
Technology assessment (Trial)

Teachers in Institutions of Higher Learning issued by the Ministry of Education

(MOE)

2020.08

The proposal on improving the discipline assessment system in colleges and universities and promoting the modernization of educational governance system and capacity issued by MOE.

President Xi		the Ministry of Science and Technology (MOST)	the Ministry of Education (MOE)	the natural Science Foundation of China (NSFC)	University \ Province
2018.05	2018.02	2020.02	2018.11	2019.08	2019.04
2018.09	2018.07	2020.02	2020.07	2020.07	2020.05
				2020.08	

MAIN POINT OF THESE POLICY

Key Words	Word Frequency		
Representative Paper	72		
Classification Assessment	52		
Use of SCI indicators	30		
Peer Review	29		
Research Integrity	29		

REPRESENTATIVE ASSESSMENT SYSTEM

01 National Prize for Natural Sciences

03 Innovation team in key areas

The number of representative works should not exceed 10.

The system of representative works should be implemented in the assessment of papers, and the number of representative works should not exceed 5 in principle.

02 Young and middle-aged leaders of science and technology innovation

The number of representative works should not exceed 5.

Source: The General Offices of the CPC Central Committee and the State Council issued Guiding Opinions on promoting the Reform of talent assessment Mechanism by classification

CLASSIFICATION ASSESSMENT



Occupational attributes and posts

According to the **characteristics** and **responsibilities** of talents in different occupations, positions and levels, combine commonness, particularity, level performance and development potential, qualitative and quantitative assessment, establish scientific and reasonable criteria for evaluating talents that cover such elements as morality, knowledge, competence, performance and contribution.

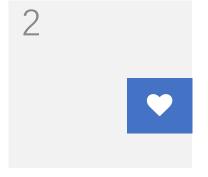
Source: The General Offices of the CPC Central Committee and the State Council issued Guiding Opinions on promoting the Reform of talent assessment Mechanism by classification

CLASSIFICATION ASSESSMENT



Basic Research

The assessment should focus on the innovation level and scientific value of the paper, and does not take related indexes of SCI papers as the direct judgment basis

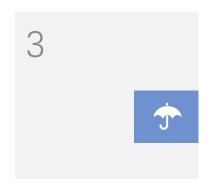


Applied research and technological innovation

The key point of assessment is the actual contribution to solving the key technical problems in production practice, and the actual effect of realizing industrialization application of new technology, new product and new process work, rather than the paper as a single assessment basis

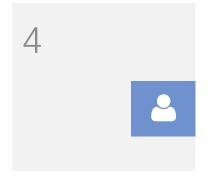
Source: The Ministry of Education and the Ministry of Science and Technology issued several Opinions on Standardizing the Use of Related Indexes of **SCI Papers** in Institutions of Higher Learning and Establishing Correct assessment Guidance

CLASSIFICATION ASSESSMENT



The service of national defense

For national defense research and transformation of scientific and technological achievements, academic paper is generally not regarded as an assessment index.

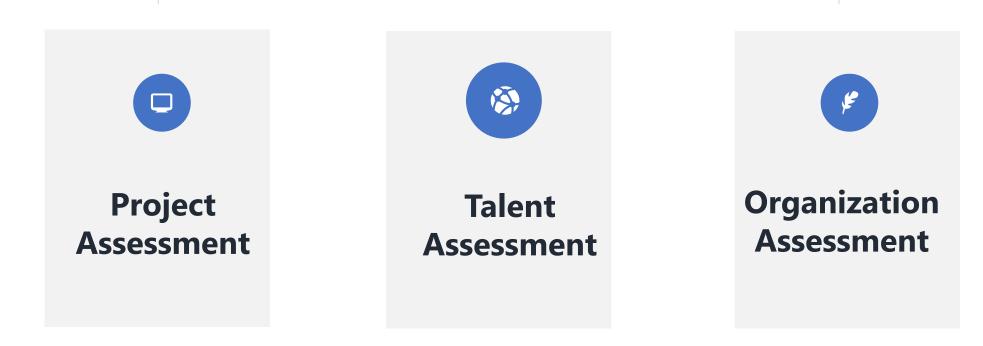


Improve discipline and school assessment

Reduce the ranking assessment of subjects and schools, and insist on classification and sub-field assessment.

Source: The Ministry of Education and the Ministry of Science and Technology issued several Opinions on Standardizing the Use of Related Indexes of **SCI Papers** in Institutions of Higher Learning and Establishing Correct assessment Guidance

SCI PAPERS



Do not take the **related indexes of SCI papers** as the direct basis of professional titles assessment and selection, and as the preconditions for personnel employment, the direct linkage between the related indexes of SCI papers and the allocation of resources and performance awards would be removed.

Source: The Ministry of Education and the Ministry of Science and Technology issued several Opinions on Standardizing the Use of Related Indexes of **SCI Papers** in Institutions of Higher Learning and Establishing Correct assessment Guidance

PEER REVIEW

Objectivity & Fairness

Carry out peer assessment and introduce international assessment. Further improve the openness of science and technology assessment activities, ensure the independence and impartiality of assessment work, and ensure the scientific and objective assessment results.











Source: The General Offices of the CPC Central Committee and the State Council issued Opinions on deepening reform of Project assessment, talent assessment and Organization assessment

PEER REVIEW





Basic Research

Give priority to peer academic assessment and strengthen international peer review.



Applied Research and Technology Development

Highlight the market assessment by users, market and experts and other relevant third-party assessment.



Philosophy and Social Sciences

Emphasis on peer recognition and social benefits.

Source: The General Offices of the CPC Central Committee and the State Council issued Guiding Opinions on promoting the Reform of talent assessment Mechanism by classification

RESEARCH INTEGRITY

3 Advocating Integrity

Resist the unhealthy tendencies such as impatience, eagerness for quick success and instant benefits, and strictly control academic misconduct

2 Assessment Index

Strengthen the assessment of talents for their scientific spirit, professional ethics and professional conduct

1 Morality assessment

Regard moral character as the primary content of talent assessment



4 Integrity System

Improve the integrity system for evaluating talents, and establish a system for keeping promises, recording and punishing dishonest behaviors.

5 Exit Mechanism

Explore the exit mechanism based on moral and integrity.

Source: The General Offices of the CPC Central Committee and the State Council issued Guiding Opinions on promoting the Reform of talent assessment Mechanism by classification

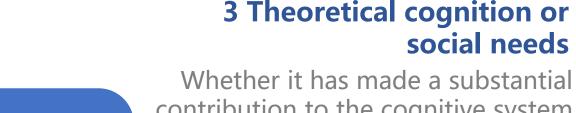
NSFC---DEFINITION OF INNOVATION

1 Methodological innovation

Whether an original scientific method has been created that can be used to solve important scientific problems.

2 Key scientific evidence

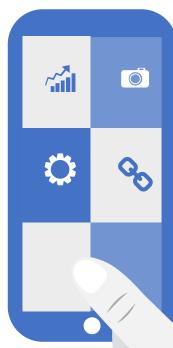
Whether it provides new, critical, and reliable evidence for the solution of important scientific problems



contribution to the cognitive system of the discipline or to the basic scientific problems underlying the solution of important social needs.

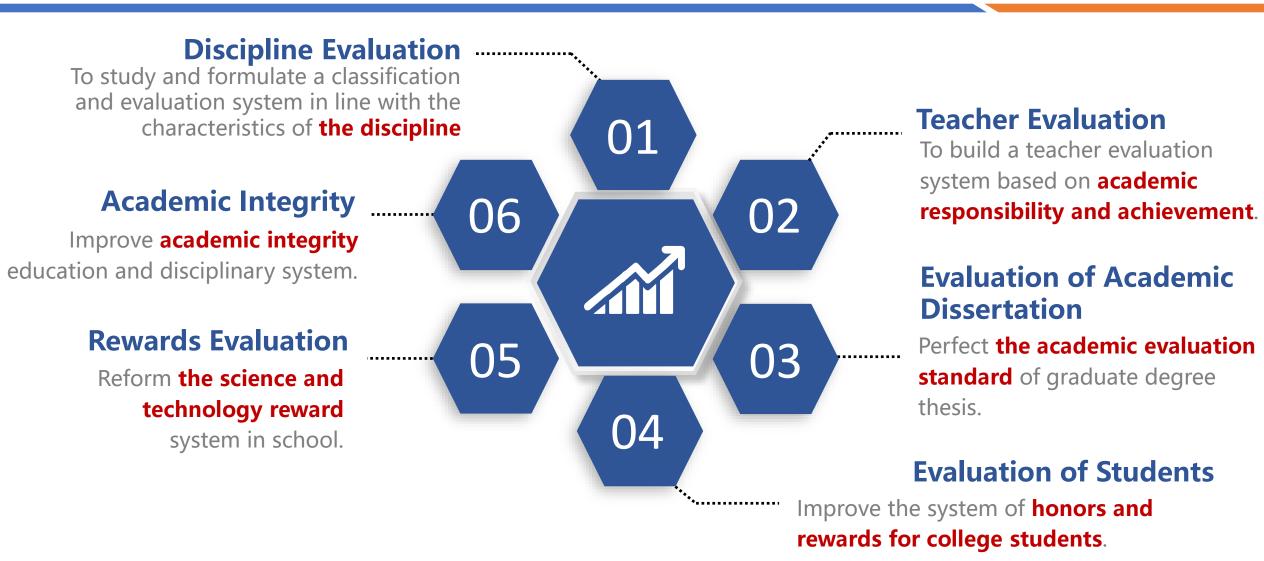
4 Disciplinary development

Whether the research work can lead to the field of research direction, category, field of vision (perspective) change or the field of cognitive system of significant progress



Source: New Rules for talent Project assessment of Geosciences Division, NSFC

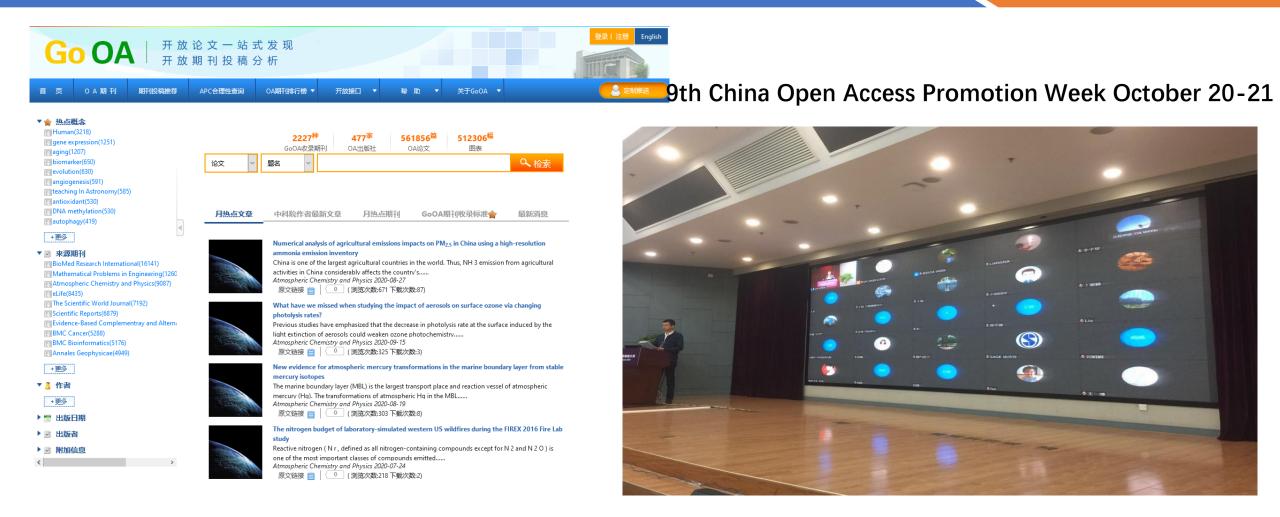
Tsinghua University



Source: Some Opinions on Improving the Academic Evaluation System, Tsinghua University

ERADICATING THE 'FIVE ONLY' THE EFFORTS OF NSL





Source: http://gooa.las.ac.cn/external/index.jsp, www.las.cas.cn/xwzx/zhxw/201910/t20191029_5413786.html

THE



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2020中国开放获取推介周

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会议日程

月20日上午0.00-12:20

第四范式下的开放科学模式——以农业科学

领域为例 (赵瑞雪,中国农业科学院农业信息研究所)

④期刊或平台: 开放学术交流带来的变与不变 (张智雄,中国科学院文献情报中心/中国科学 院武汉文献情报中心)

⑤开放科学的理念与实践——以开放科学中心 (COS)为例 (胡传鹏,COS中国大使/德国莱布尼茨心理韧性研究中心)

X





Journal Subdivision Table – Liying Yang

Source: http://www.fenqubiao.com/Core/CategoryList.aspx

Research Paper

Citation: Xiaoqiu Le,

Jingdan Chu, Siyi Deng, Qihang Jiao, Jingjing

Pei, Liva Zhu, Junliang

Yao (2019). CiteOpinion Evidence-based evaluation tool for academic

contributions of research papers based on citing

sentences. Journal of Data

DOI: 10.2478/idis-2019-0019

and Information Science.

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4(4), 26-41

CiteOpinion: Evidence-based Evaluation Tool for Academic Contributions of Research **Papers Based on Citing Sentences**

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Abstract

Purpose: To uncover the evaluation information on the academic contribution of research papers cited by peers based on the content cited by citing papers, and to provide an evidencebased tool for evaluating the academic value of cited papers.

Design/methodology/approach: CiteOpinion uses a deep learning model to automatically extract citing sentences from representative citing papers; it starts with an analysis on the citing sentences, then it identifies major academic contribution points of the cited paper, positive/negative evaluations from citing authors and the changes in the subjects of subsequent citing authors by means of Recognizing Categories of Moves (problems, methods, conclusions, etc.), and sentiment analysis and topic clustering.

Findings: Citing sentences in a citing paper contain substantial evidences useful for academic evaluation. They can also be used to objectively and authentically reveal the nature and degree of contribution of the cited paper reflected by citation, beyond simple citation statistics.

Practical implications: The evidence-based evaluation tool CiteOpinion can provide an objective and in-depth academic value evaluation basis for the representative papers of scientific researchers, research teams, and institutions

Originality/value: No other similar practical tool is found in papers retrieved.

Research limitations: There are difficulties in acquiring full text of citing papers. There is a need to refine the calculation based on the sentiment scores of citing sentences. Currently, the tool is only used for academic contribution evaluation, while its value in policy studies, technical application, and promotion of science is not yet tested.

Keywords Cited paper; Citing paper; Citing sentence; Citation motive; Citation sentiment; Academic contribution: Evaluation

Journal of Data and Information Science

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A Peer Review Method Based on Identify Experts' Guanxi

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Abstract

In Chinese society, guanxi (interpersonal relationships) are involved in everyday social interactions. In the processing of peer review, interpersonal relationships between experts and person to be reviewed often interfere the objectively assessing of evaluation, leading to the review invalid or injustice. According to the requirement of

基于学术关系的同行评议专家回避关系计量研究

雷雪 干立学

中国科学技术信息研究所

稿要: 以学术关系为研究对象和切入点,进行同行评议专家回避关系计量初探。在阐述国内外研究现状的基础上,探讨与回避相关的学术 关系的抽取与挖掘、进而提出面向不同评议场景的学术关系的融合及回避评估模型构建思路。本研究可为科研管理者遴选同行评议专家提 供参考和依据,促进同行评议的规范性、公平性和民主性。

关键词: 学术关系; 同行评议专家; 回避关系;

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专辑: 电子技术及信息科学

专题: 图书情报与数字图书馆

分类号: G350





THANK YOU!

National Science Library, Chinese Academy of Sciences Xiwen Liu, Yan Zeng, Junpeng Yuan yuanjp@mail.las.ac.cn