

# 爱思唯尔全面支持科研社区





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# Elsevier, 在全球科研领先的位置上



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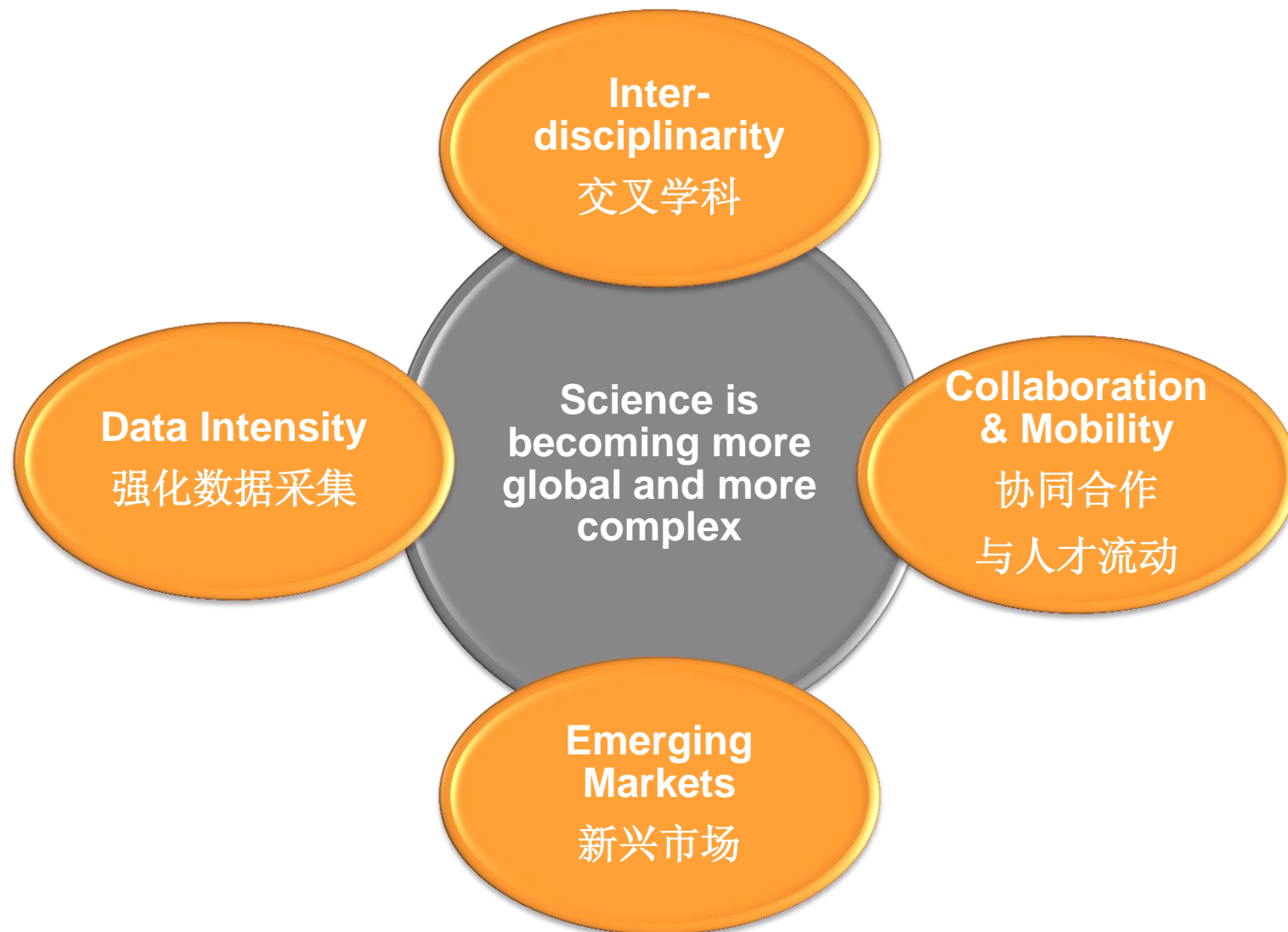
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# 全球研究领域的四个发展趋势

## Four global trends in research information





# Where we are as China?



Publication  
and Citations

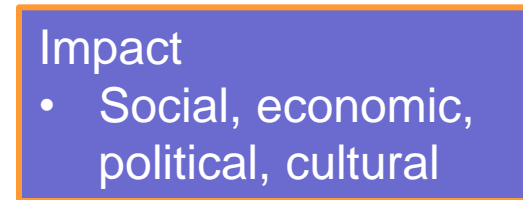
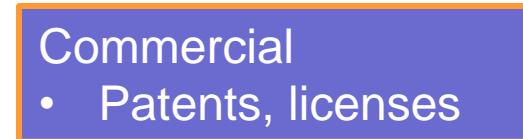
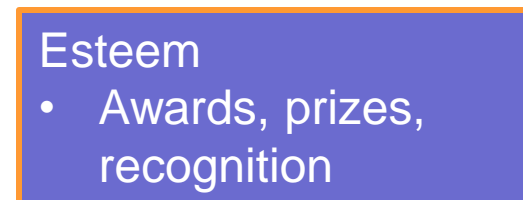
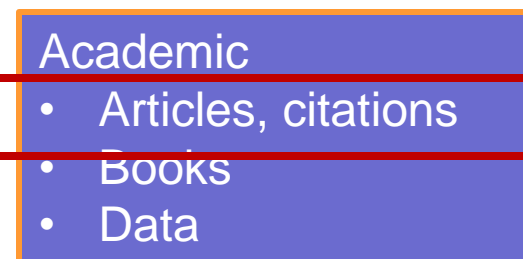
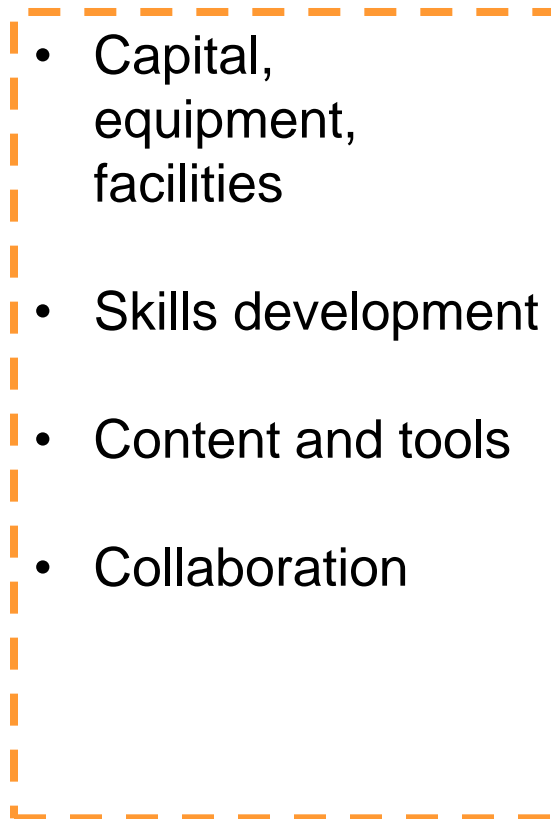
Collaborations

## WHY ?

通过了解在国际科研界的位置，来帮助研究机构提供相应的数字化服务

# 中国选定分析：文章、引文

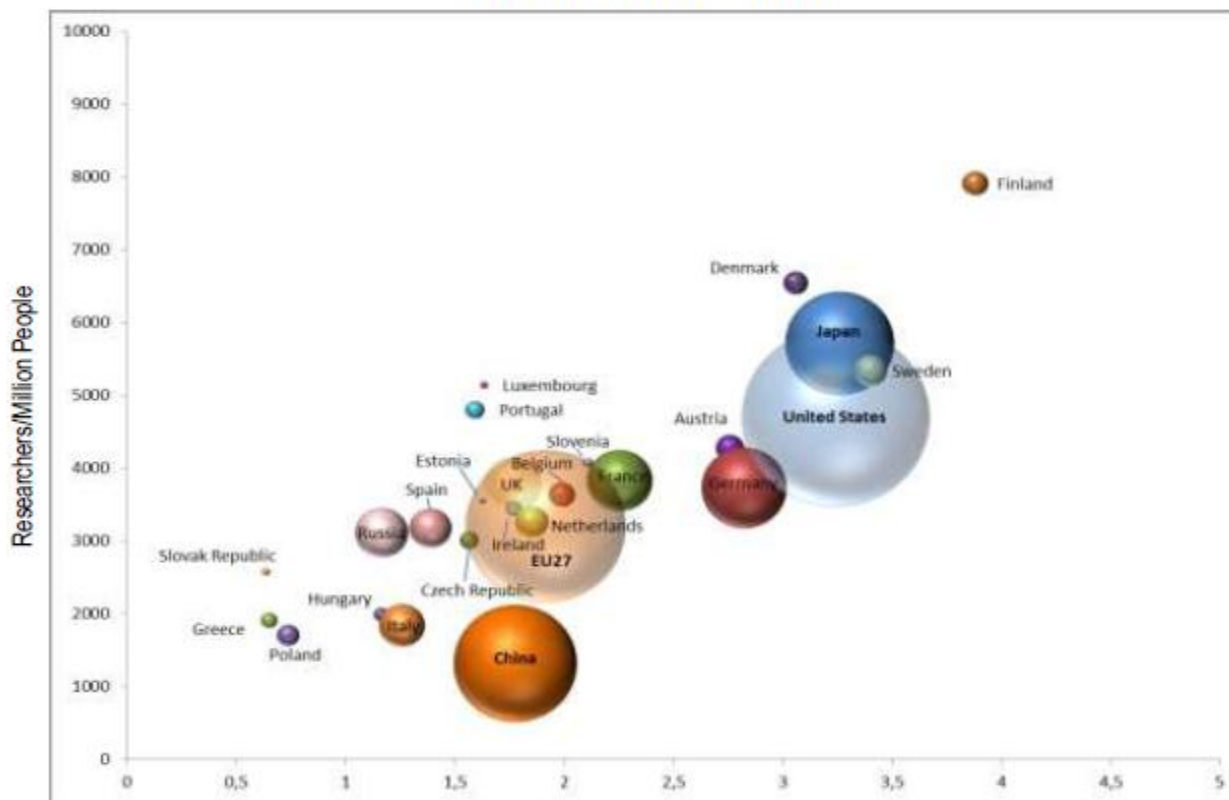
## Selected analyses for China: Articles, Citations



# 研发支出 R&D Spend



## World of R&D 2010



Size of bubble reflects the relative amount of annual R&D spending by the country listed

GERD as % of GDP

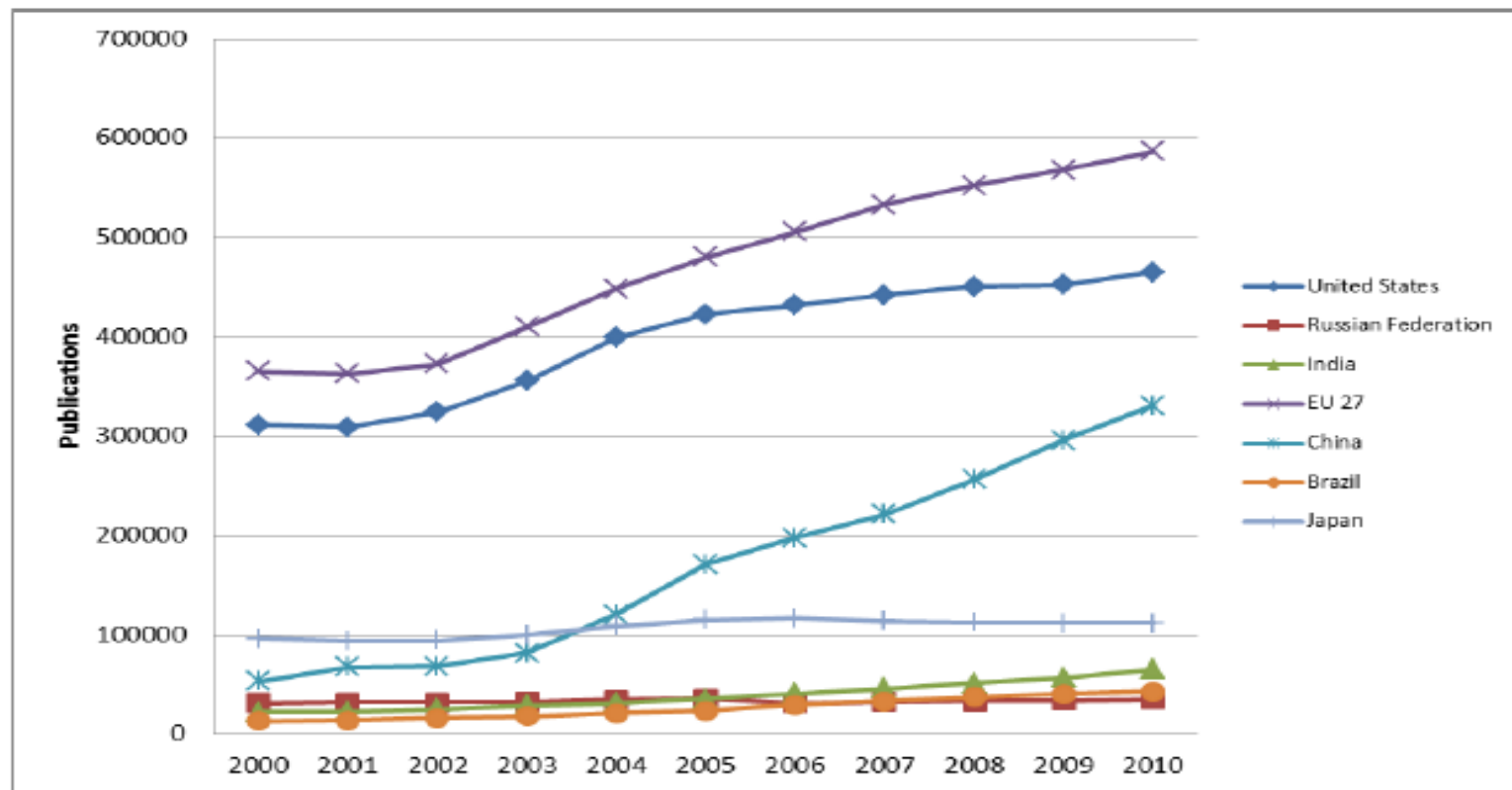
Country	GERD as % of GDP	Researchers/Population	GERD
EU 27	1,913547637	3201	305036
Japan	3,25806396	5716	140833
United States	3,242530331	4692	420767
China	1,774592633	1320	178981
Russian Federation	1,164635215	3117	32838



# Publication output



## Publication Output Trend of China and comparators



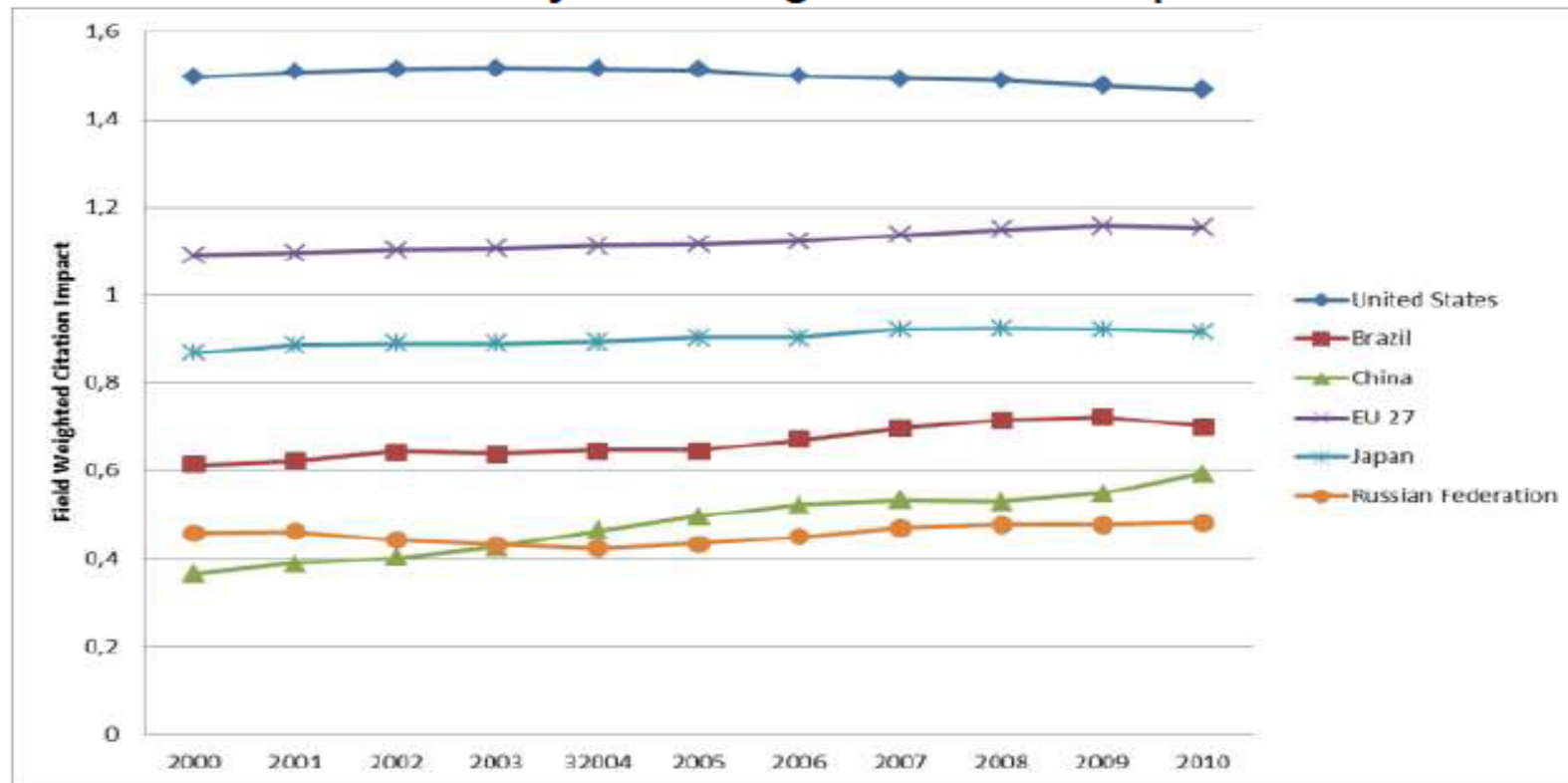
Source: Scopus

Country	2000	2010	CAGR
United States	311565	465262	4,56%
Russian Federation	31548	34843	1,11%
India	22484	65487	12,61%
EU 27	365325	586749	5,41%
China	53462	330818	22,45%
Brazil	13078	43188	14,19%
Japan	96001	111788	1,71%

# Citation output



**Citation Output Trend of China and comparators as measured by Field Weighted Citation Impact**



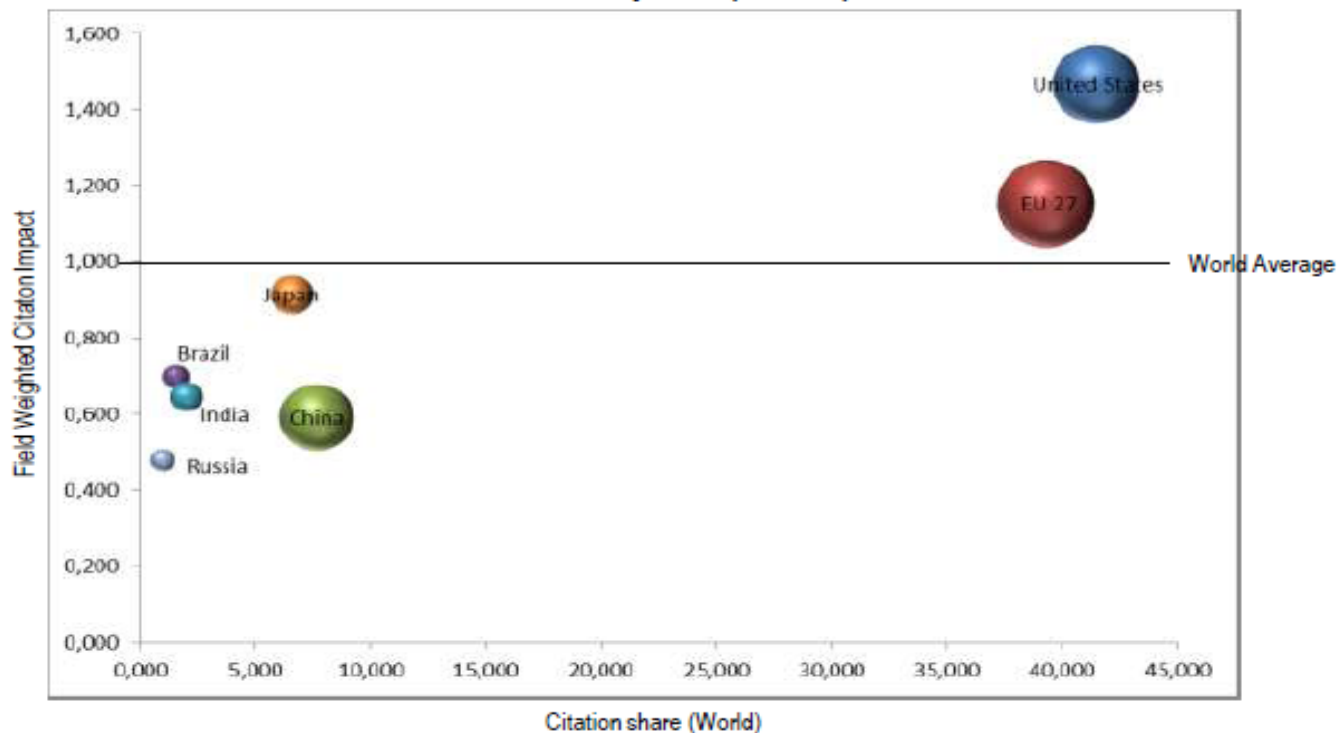
Country	2000	2010	CAGR
United States	1,496	1,468	-0,21%
Brazil	0,613	0,7	1,49%
China	0,365	0,593	5,54%
EU 27	1,09	1,154	0,64%
Japan	0,868	0,915	0,59%
Russian Federation	0,457	0,481	0,57%

Source: Scopus

# Research Quantity and Quality



## Publication and citation share vs. Field Weighted Citation Impact (FWCI)



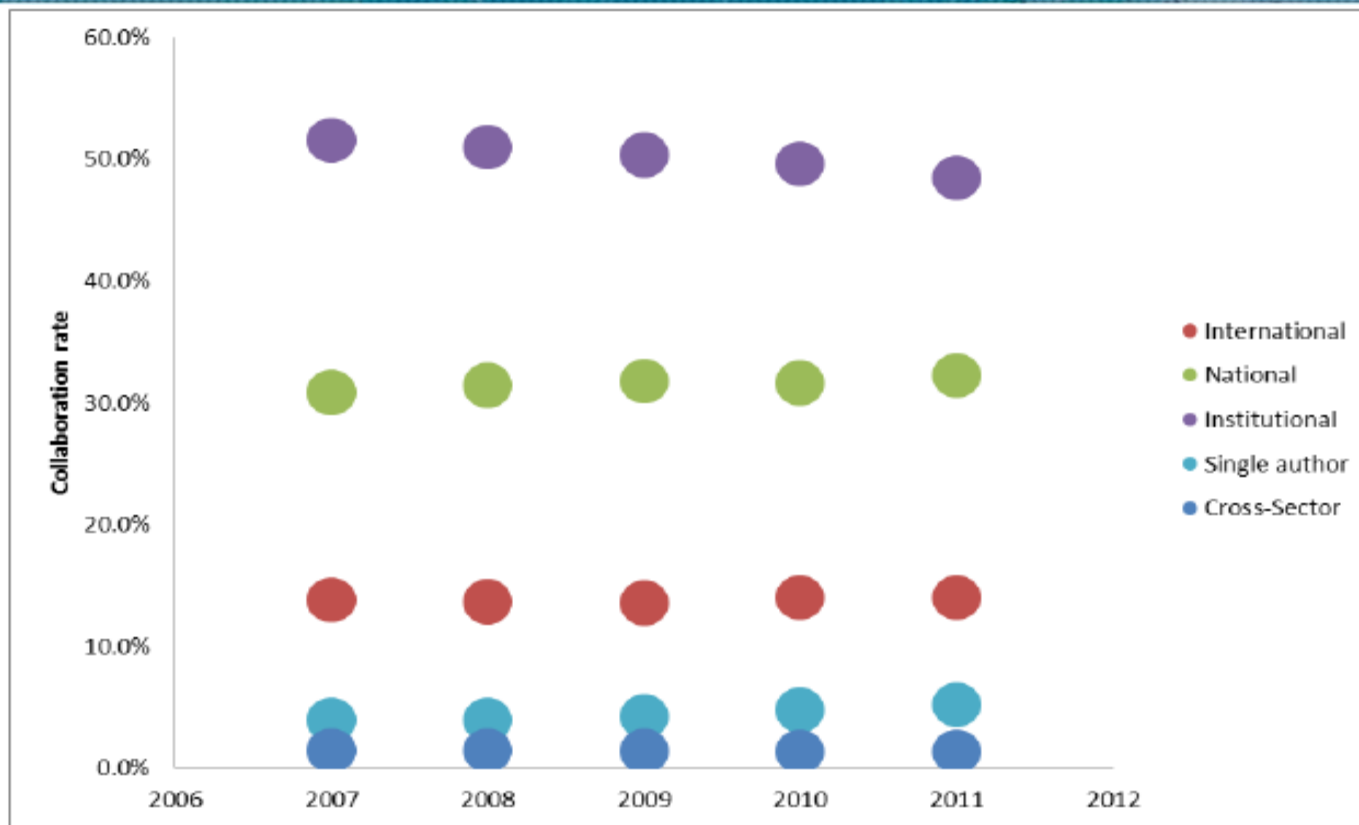
- Size of bubble reflects the publication share (world) of EU and country listed
- Field Weighted Citation Impact is an indicator that is typically used as a proxy to measure research quality across all research disciplines

Country	Citation share	FWCI	Publication share
United States	41,442	1,468	24,033
EU 27	39,266	1,154	30,308
China	7,624	0,593	17,088
Brazil	1,532	0,700	2,231
India	1,974	0,646	3,383
Japan	6,550	0,915	5,774
Russian Federation	0,947	0,481	1,800

Source: Scopus



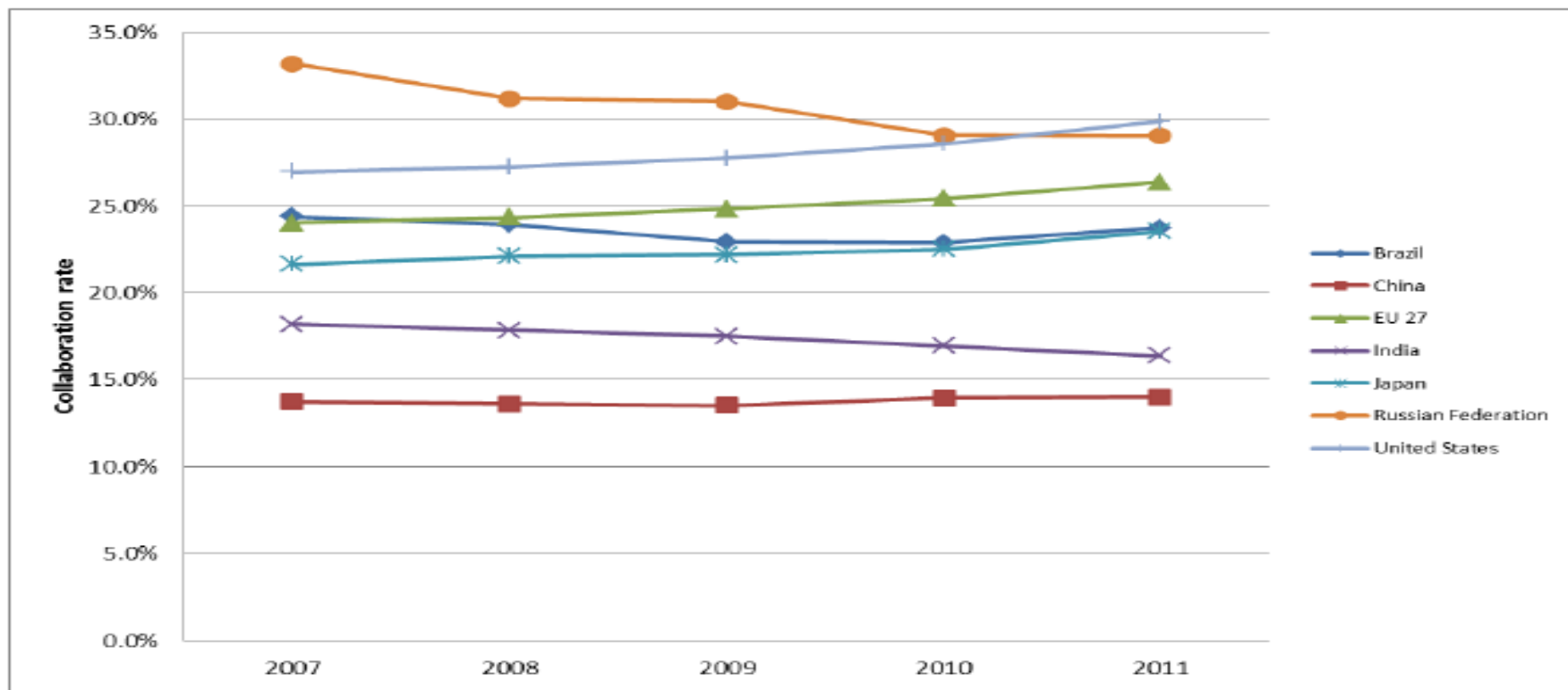
# China's collaboration trend



- Single author pertain to papers with single authorship
- Cross-sector pertain to papers co-authored between academic institutions and the Industry
- Except for single authorship, other collaboration types might overlap, hence the sum of collaboration types exceeding 100%
- CAGR is calculated for the collaboration rate.

Collaboration type	2007-2011 Collaboration rate	CAGR
International	13.8%	0.5%
National	31.6%	1.1%
Institutional	50.0%	-1.5%
Single author	4.5%	7.5%
Cross-Sector	1.4%	-2.9%

# China's international collaboration



Rank	Country	2007-2011 International Collaboration rate	CAGR
1	Russian Federation	30.6%	-3.3%
2	United States	28.1%	2.6%
3	EU 27	25.0%	2.3%
4	Brazil	23.5%	-0.7%
5	Japan	22.4%	2.1%
6	India	17.2%	-2.6%
7	China	13.8%	0.5%

**How can we help?**

**As a strategic central library:**

**Connecting Scholars in the Cloud**

Research is a social activity, but the tools and the data aren't.

Databases have incomplete metadata, incompatible licenses prevent remixing and sharing necessary for new insights.

**Capture the latent info in their process!**



# Innovation to help secure that future by supporting and developing the global research community



## **Mendeley Web:**

**A research catalog of  
250M documents from 2 M  
researchers, 170K collaborative groups.**

## **Mendeley Desktop:**

**A bit of software  
that organizes PDFs and helps  
researchers write papers.**

**FREE**

# Values to improve research process \_PURE



- Single authoritative source: 唯一权威的信息来源。
- Key indicators: 统一的主要指标。
  - Grant application success rates: 科研经费申请成功率。
  - Grant application and award volumes: 科研经费申请和获得的总额。
  - External collaborations: 外部合作。
  - Research outputs statistics: 科研输出统计。
  - Article citation numbers: 文献被引次数。
  - Journal impact factors: 发表期刊的影响因子。
  - Innovation activities, commercialization: 致力于创新和商业转化。
  - Esteem indicators: 获奖指标。
  - Doctoral completions: 毕业的博士生数量。
  - Post-graduate students' statistics: 辅导研究生的数量。
  - Research active academics numbers: 科研活跃的研究人员数量。
  - Full-text downloads numbers: 著作全文下载数量用量统计。
- Performance management and strategy-making : 绩效管理 and 战略决策。
- Online exhibition: 在线对外展示院校的成果。

# Meets all young researchers' needs



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谢谢！

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