

**Taylor & Francis  
Editor Round Table  
October 2011**

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*James Testa  
Vice President  
Editorial Development & Publisher Relations*



**THOMSON REUTERS**

# Agenda

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- ❑ **Maintaining and Growing Web of Science**
- ❑ **Journal Impact Factor in Context**
- ❑ **Regional Content Expansion 2007-2009**
- ❑ **Journal Coverage in Web of Science**
  - ❑ **Social Science and Humanities**
- ❑ **Canadian Research in Context of Top Producing Countries**
- ❑ **Co-Authorship with Canada in Web of Science**
- ❑ **Book Citation Index**
- ❑ **How to Improve Your Journal**

# Journal Selection Process: Four Points of Evaluation

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## Journal Publishing Standards

- Timeliness of publication
- International Editorial Conventions
- English language Bibliographic Information
- Peer Review

## Editorial Content

- Will this journal enrich WoS with novel content?
- Is this subject already well covered?
- How does this journal compare with covered journals of similar scope?

## International Diversity: Authors, EAB

- Do authors, editors, EAB members represent the int'l research community?
- Does this journal target an International or Regional audience?

## Citation Analysis

### New journals:

- Citations to authors' , editors' prior work.

### Established Journals:

- Impact Factor

## *The Impact Factor in Context*

**Impact Factor** represents the average number of times recent articles in a specific journal were cited in a particular year.

**Impact Factor** measures the citation performance of the journal as a whole and not of any specific article or author published in the journal.

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Journal of Systematic Palaeontology

**2010 Impact factor: 3.844**

# Journal Citation Reports (JCR) -- 2010 Science Edition

## Impact Factor Calculation

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Journal: **Journal of Systematic Palaeontology**

Impact Factor: 3.844

Cites in 2010 to articles published in :

2009 = 28

2008 = 95

09 + 08 = 123

Number of articles published in:

2009 = 15

2008 = 17

09 + 08 = 32

Calculation:

Cites to recent articles      123 = 3.844

Number of recent articles    32

# WHAT'S IN THE DENOMINATOR?

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## ITEMS COUNTED:

- Original research articles
- Review articles
- Proceedings papers  
(published in the journal)

*“Citable Items”*

## ITEMS NOT COUNTED:

- Editorials
- Discussions
- Commentaries
- Meeting abstracts
- Book reviews
- News items
- Letters typically not counted unless they function as “articles”

*“Other Items”*

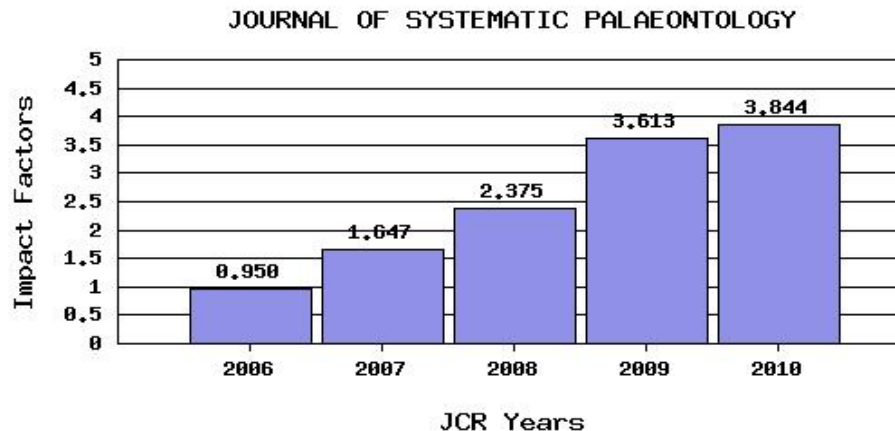
# The data behind the Journal Impact Factor

## Journal of Systematic Palaeontology...

Source  
Data  
2010

	Citable items			Other items
	Articles	Reviews	Combined	
Number in JCR year 2010 (A)	19	0	19	1
Number of references (B)	2646	0	2646	0.00
Ratio (B/A)	139.3	0.0	139.3	0.0

Impact  
Factor  
Trend



# The data behind the Journal Impact Factor

## Journal of Systematic Palaeontology...

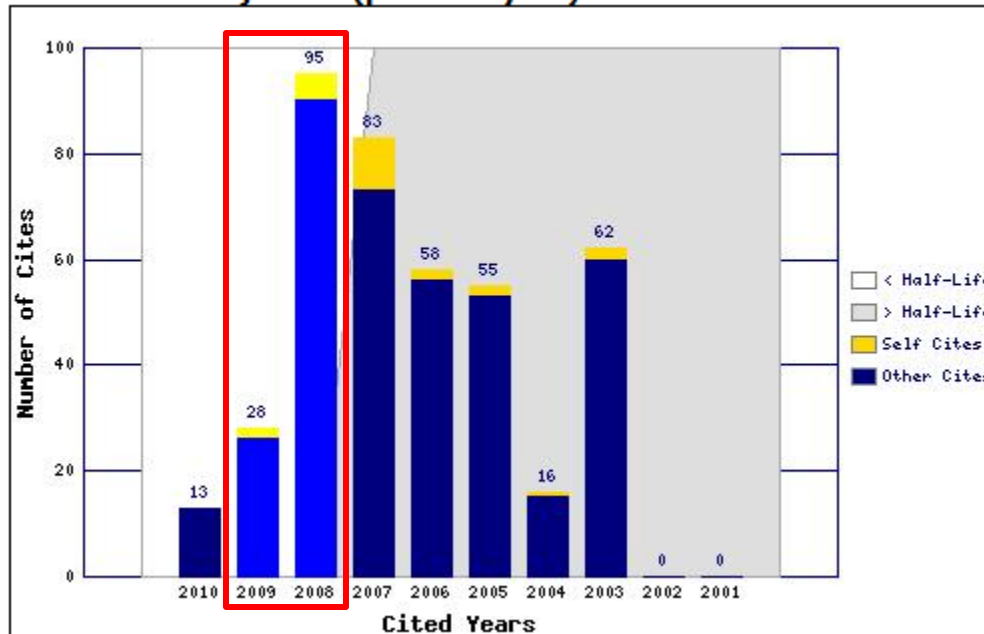
### Journal Self Cites i

The tables show the contribution of the journal's self cites to its impact factor. This information is also represented in the [cited journal graph](#).

<b>Total Cites</b>	411
<b>Cites to Years Used in Impact Factor Calculation</b>	123
<b>Impact Factor</b>	<b>3.844</b>

<b>Self Cites</b>	24 (5% of 411)
<b>Self Cites to Years Used in Impact Factor Calculation</b>	7 (5% of 123)
<b>Impact Factor without Self Cites</b>	<b>3.625</b>

Citations to the journal (per cited year)



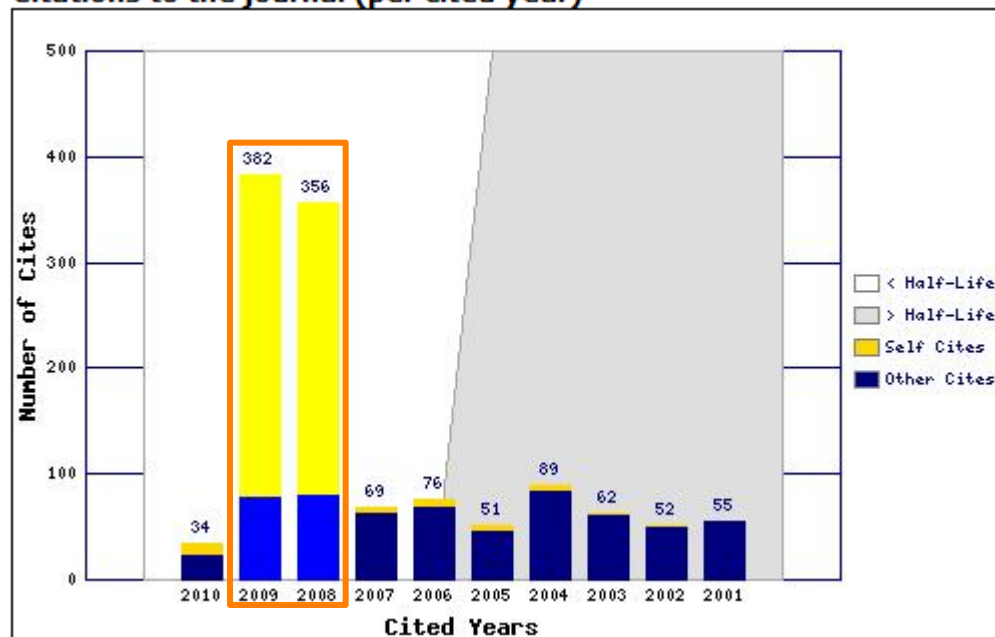
Cited  
Journal  
Graph

# Self citation rates in 2010 Journal Citation Report

## Journal of Biomolecular Structure and Design

<b>Total Cites</b>	1892	<b>Self Cites</b>	646 (34% of 1892)
<b>Cites to Years Used in Impact Factor Calculation</b>	738	<b>Self Cites to Years Used in Impact Factor Calculation</b>	582 (78% of 738)
<b>Impact Factor</b>	4.986	<b>Impact Factor without Self Cites</b>	1.054

Citations to the journal (per cited year)



Effect of Self Citations  
on *rank in category*:

**From** Q1

**To** Q4

•Biochemistry & Molecular  
Biology

•Biophysics

2010  
Cited Journal  
Graphic

*Journal will be considered for suppression from 2011 JCR*

## JCR Category Scope Notes

Impact Factor has meaning **only** in the **context** of journals with **similar editorial content** – journals from the same field of study

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### Cell Biology

Category Description:

Cell Biology includes resources on all aspects of the structure and function of eukaryotic cells. The principle characteristic of resources in this category is an emphasis on the integration at the cellular level of biochemical, molecular, genetic, physiological, and pathological information. This category considers material on specific tissues, differentiated as well as embryonic.

### Evolutionary Biology

Category Description:

Evolutionary Biology covers resources concerning the molecular, natural selection, and population mechanisms of evolution; the evolution of species and related groups; the classification of organisms based on evolutionary relationships; and the biology and ecology of extinct organisms.

### Biochemistry & Molecular Biology

Category Description:

Biochemistry & Molecular Biology covers resources on general biochemistry and molecular biology topics such as carbohydrates, lipids, proteins, nucleic acids, genes, drugs, toxic substances, and other chemical or molecular constituents of cells, microbes, and higher plants and animals, including humans.

# Impact Factor in Context of Various Categories

Rank	Category <i>(linked to category information)</i>	Total Cites	Median Impact Factor	Aggregate Impact Factor	Aggregate Immediacy Index	Aggregate Cited Half-Life	# Journals	Articles
1	<a href="#">PSYCHOLOGY, BIOLOGICAL</a>	50638	1.879	2.646	0.536	9.5	14	1171
2	<a href="#">INFORMATION SCIENCE &amp; LIBRARY SCIENCE</a>	54884	0.791	1.252	0.255	7.1	76	2949
3	<a href="#">ANTHROPOLOGY</a>	59967	0.694	1.235	0.350	9.8	75	2756
4	<a href="#">SOCIOLOGY</a>	111791	0.771	0.924	0.188	>10.0	129	4138
5	<a href="#">WOMEN'S STUDIES</a>	21159	0.617	0.919	0.150	7.7	35	1397
6	<a href="#">CULTURAL STUDIES</a>	2739	0.324	0.364	0.041	8.7	10	363

Rank	Category <i>(linked to category information)</i>	Total Cites	Median Impact Factor	Aggregate Impact Factor	Aggregate Immediacy Index	Aggregate Cited Half-Life	# Journals	Articles
1	<a href="#">BIOCHEMISTRY &amp; MOLECULAR BIOLOGY</a>	2814674	2.799	4.346	0.857	7.4	286	50169
2	<a href="#">ANDROLOGY</a>	8763	1.549	2.210	0.515	6.9	5	367
3	<a href="#">TROPICAL MEDICINE</a>	56505	1.162	2.151	0.381	7.2	19	2834
4	<a href="#">SPORT SCIENCES</a>	213588	1.191	2.140	0.330	8.1	79	7043
5	<a href="#">ZOOLOGY</a>	258977	0.969	1.477	0.329	9.9	145	9879
6	<a href="#">NURSING</a>	73223	0.974	1.048	0.158	6.6	88	5246

Impact Factor has meaning *only* in the *context* of  
journals with similar editorial content – journals from  
the same field of study

# Regional Content Expansion 2007-2009

Web of Science  
covers the  
**Top Tier**  
**of**  
**International**  
**and**  
**Regional**  
**Journals**



# FOCUSING CONTENT ON REGIONAL NEEDS

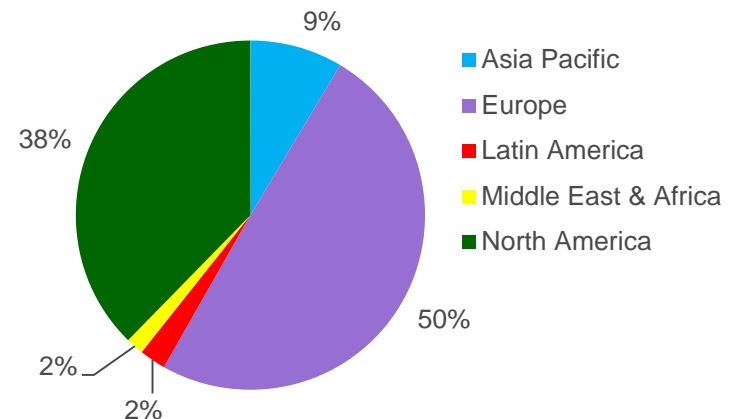
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- Goals
  - Meet the needs of the emerging and growing regional community of WoS users.
  - Identify, evaluate, and select the best Journals published outside the US or UK that target a regional rather than an international audience.
  - Regional journals focus on topics of regional importance
  - All journals evaluated for publishing standards, timeliness, peer review, English language bibliographic information and content
- Outcome
  - 10,000 Regional journals were evaluated, only 1,600 were selected
- Conclusion: A relatively small number of journals provide a reliable medium for the distribution of studies important to a regional audience. These are the journals we have selected.

# REGIONAL JOURNAL COVERAGE IN THE WEB OF SCIENCE

	A&H	AB&ES	CM	EC&T	LS	PC&ES	S&BS	Total
<b>AP</b>	13	55	105	45	47	41	89	395
<b>EU</b>	150	88	161	81	50	116	200	846
<b>LA</b>	29	55	33	13	14	15	42	201
<b>MA</b>	13	23	32	10	15	7	31	131
<b>NA</b>	8	1	13	2	1	0	3	28
<b>Total</b>	<b>213</b>	<b>222</b>	<b>344</b>	<b>151</b>	<b>127</b>	<b>179</b>	<b>365</b>	<b>1601</b>

**Geographic Distribution of Web of Science Journal Coverage**



# Web of Science Journal Coverage 2005-2010

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Countries

Subject Areas

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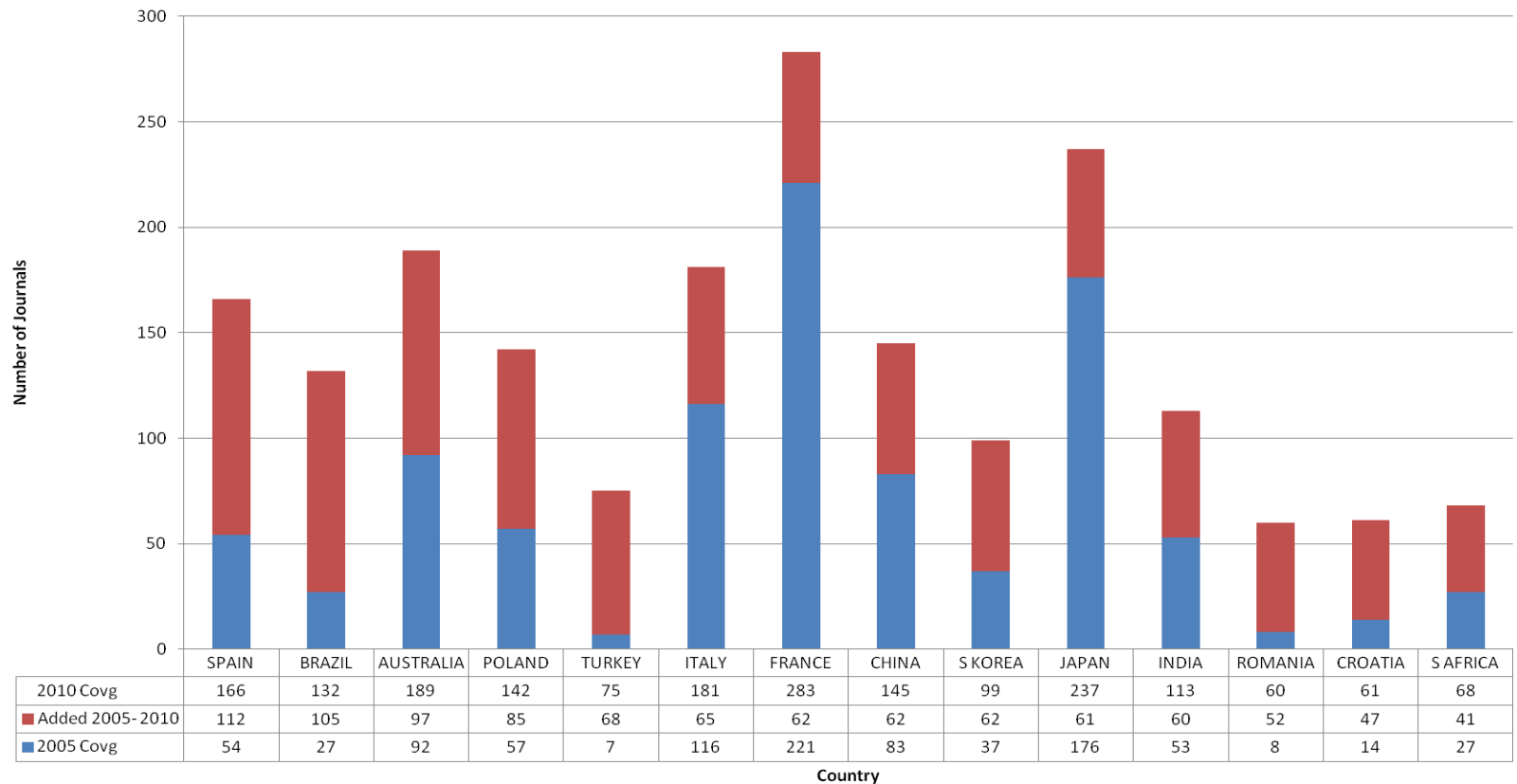
Focus on:

Arts & Humanities

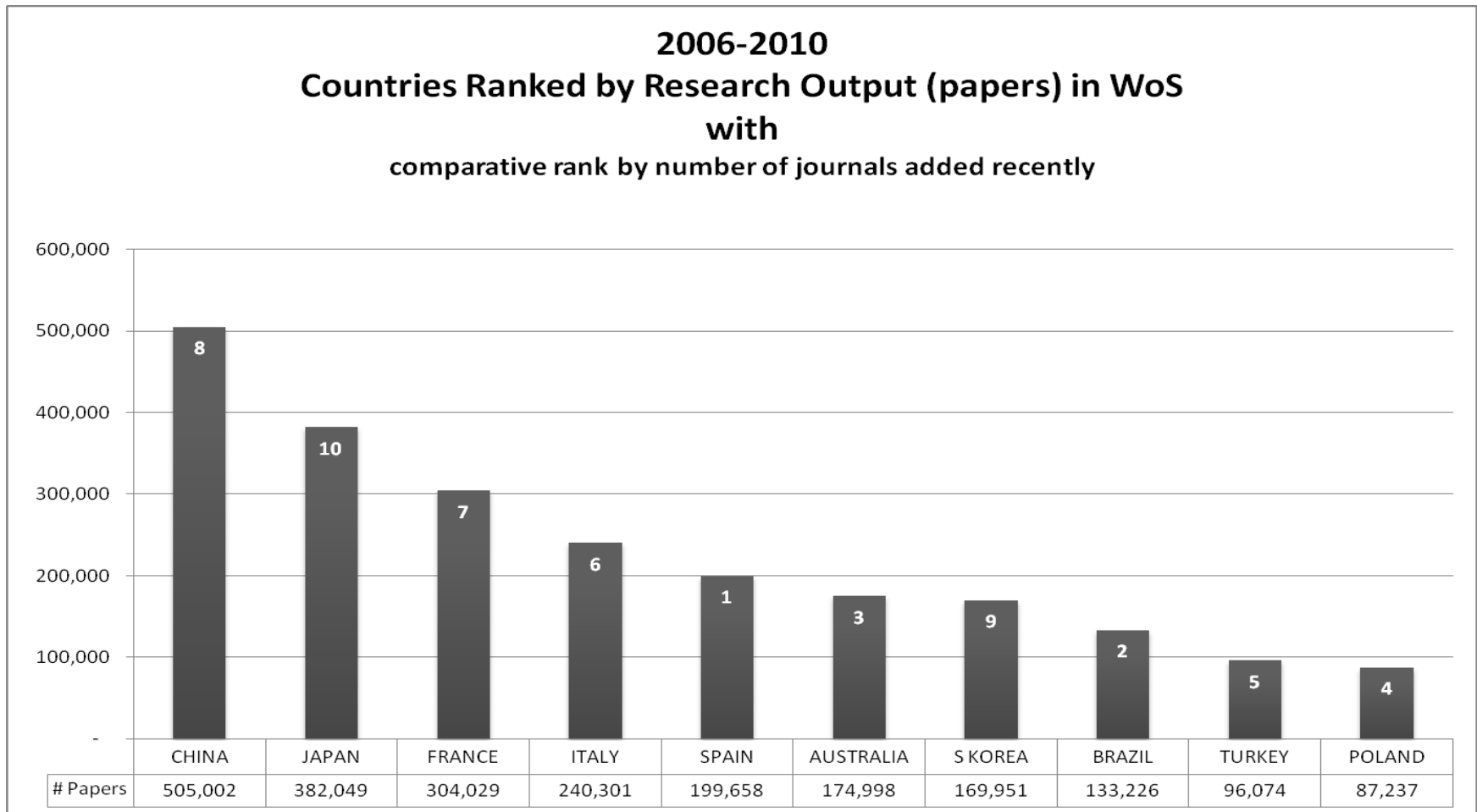
Social Sciences

# Growth of Journal Coverage in Web of Science per Country (excluding US, UK GDR, Netherlands)

2005-2010: Countries That Added Over 40 Titles to WoS

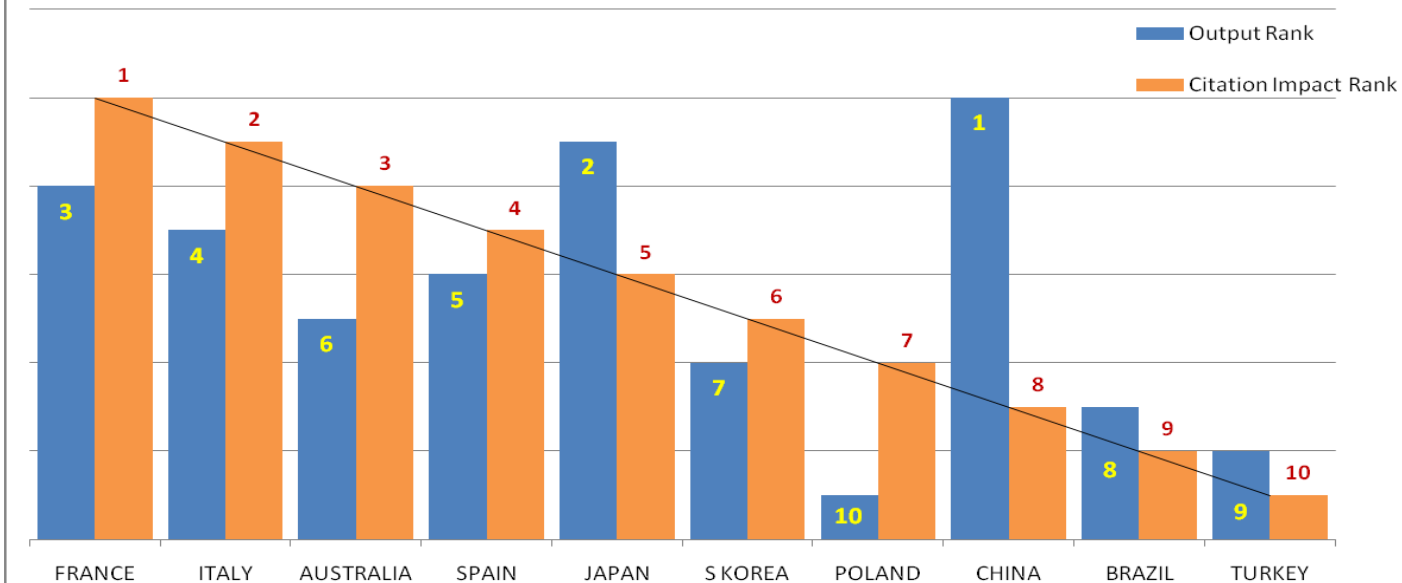


# Research Output (papers) from Countries with Significantly Expanded Journal Coverage in Web of Science

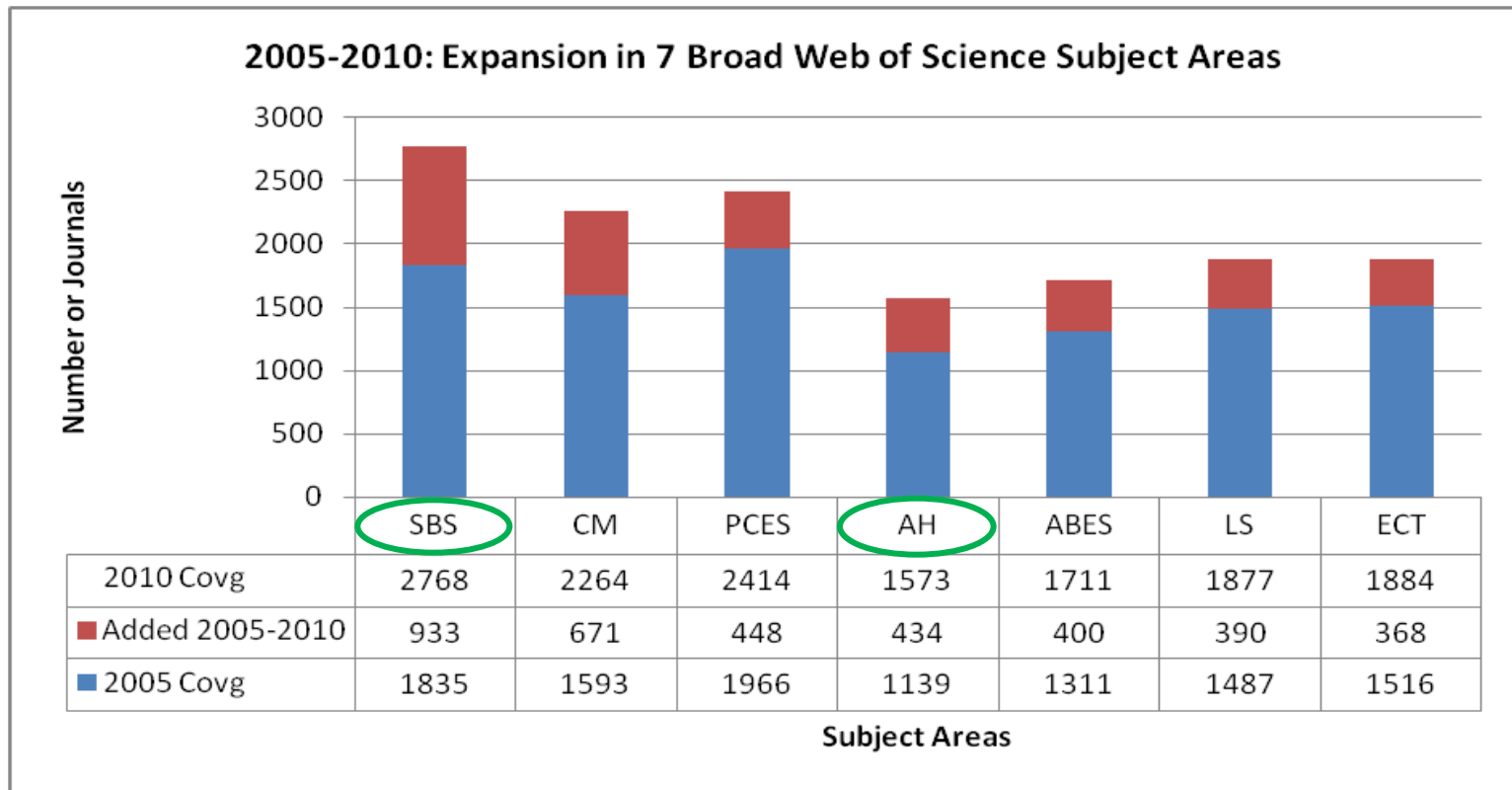


# Quality vs. Quantity

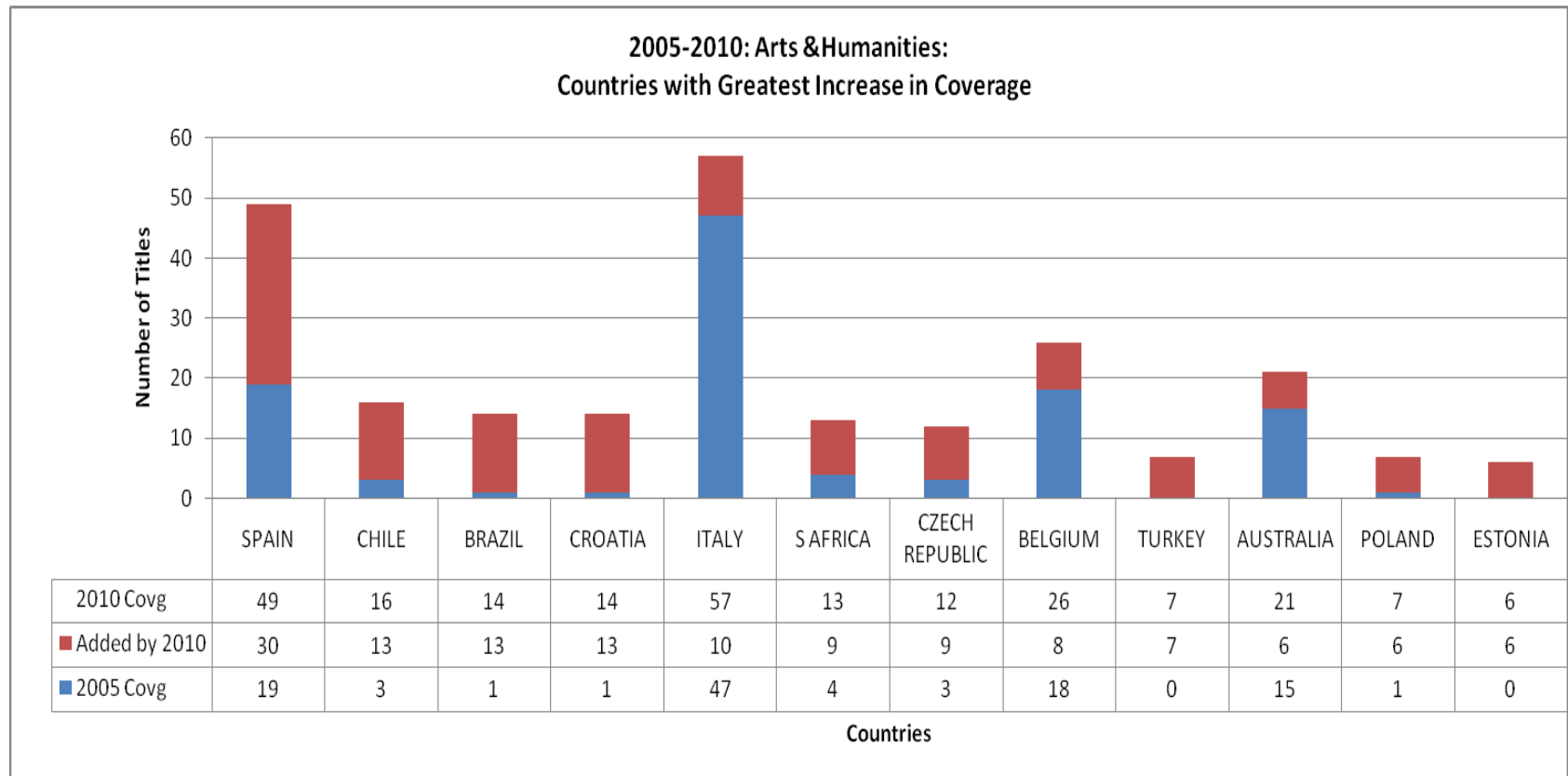
2006-2010  
Citation Impact vs. Output  
In Countries with Significantly Expanded Journal Coverage in  
Web of Science



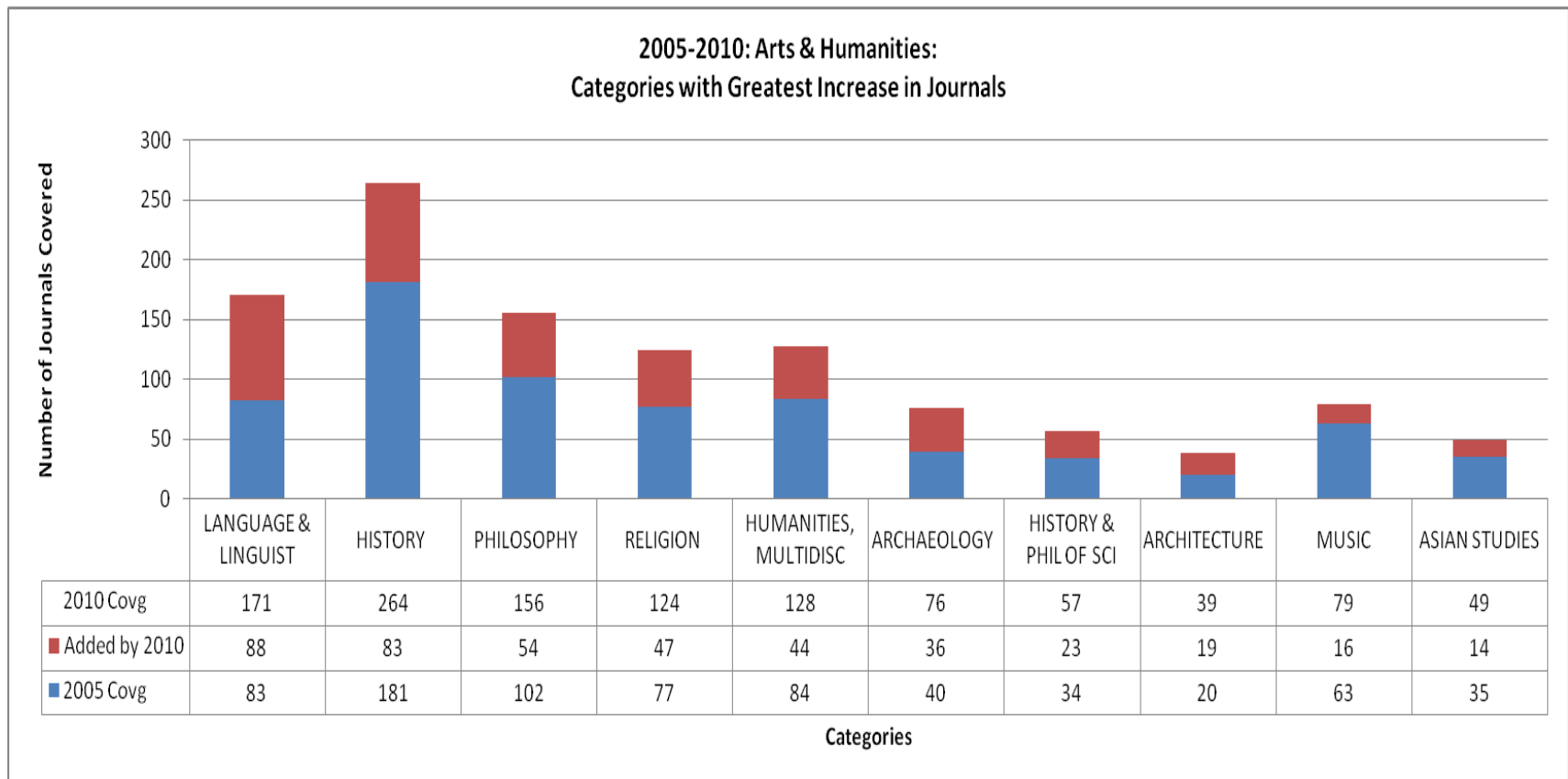
# Growth of Journal Coverage in Web of Science per Subject Area



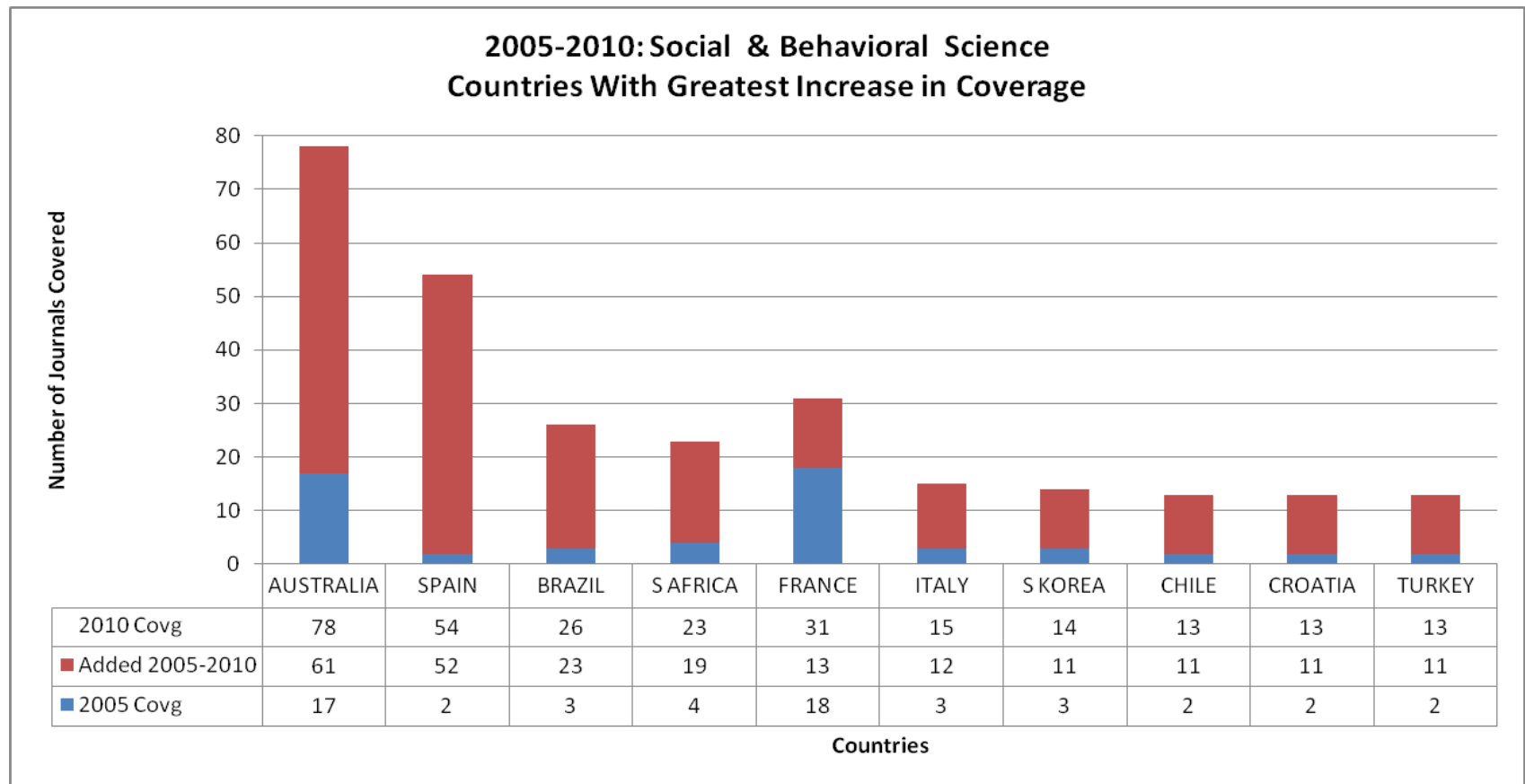
# Recent Growth in Arts & Humanities Coverage: Countries



# Recent Growth in Arts & Humanities Coverage: Categories

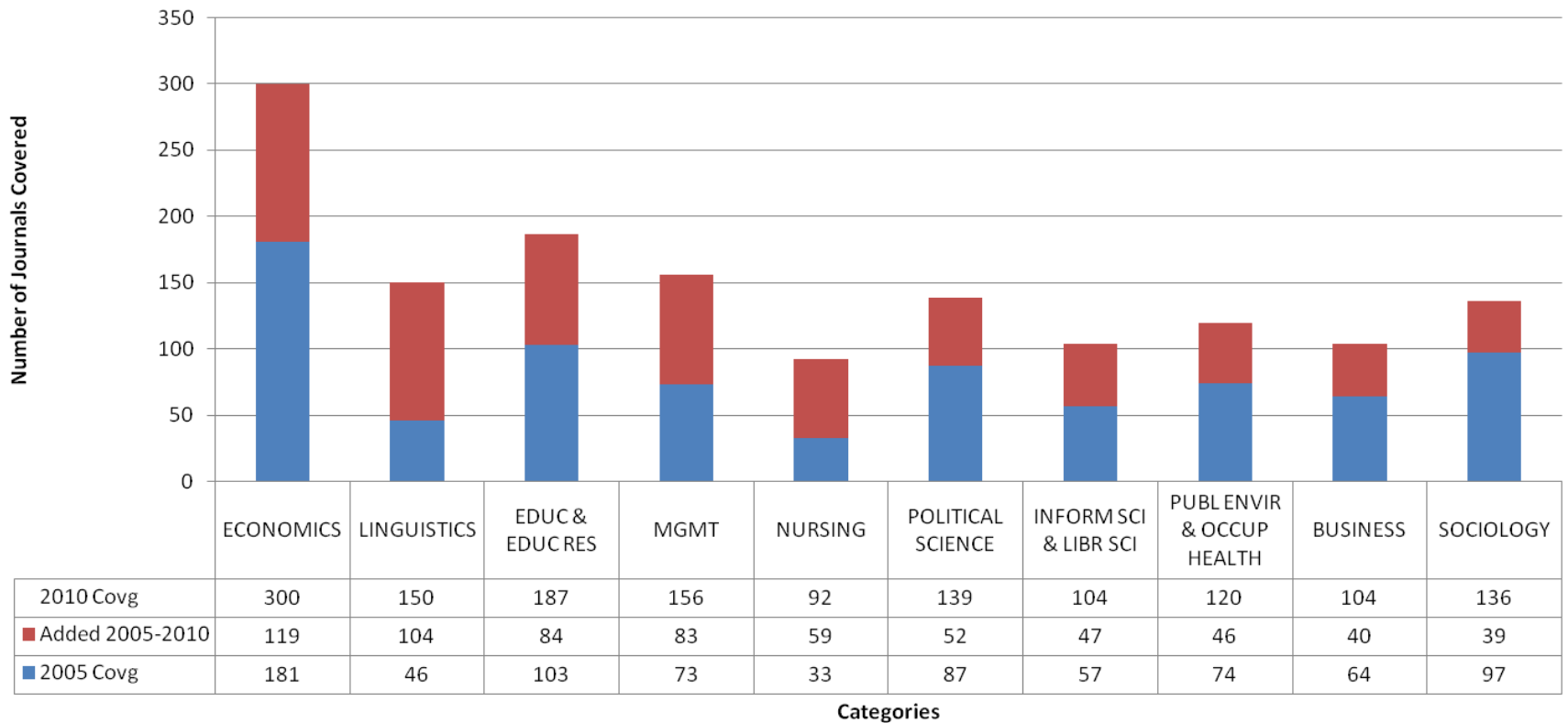


# Recent Growth in Social & Behavioral Sciences : Countries



# Recent Growth in Social & Behavioral Sciences: Categories

2005-2010: Social & Behavioral Sciences  
Categories with Greatest Increase in Journals



# National Research Output and Impact

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AUSTRALIA

CANADA

FRANCE

SOUTH KOREA

SPAIN

TURKEY



# Top categories for these countries: Research Output

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**Chemistry**

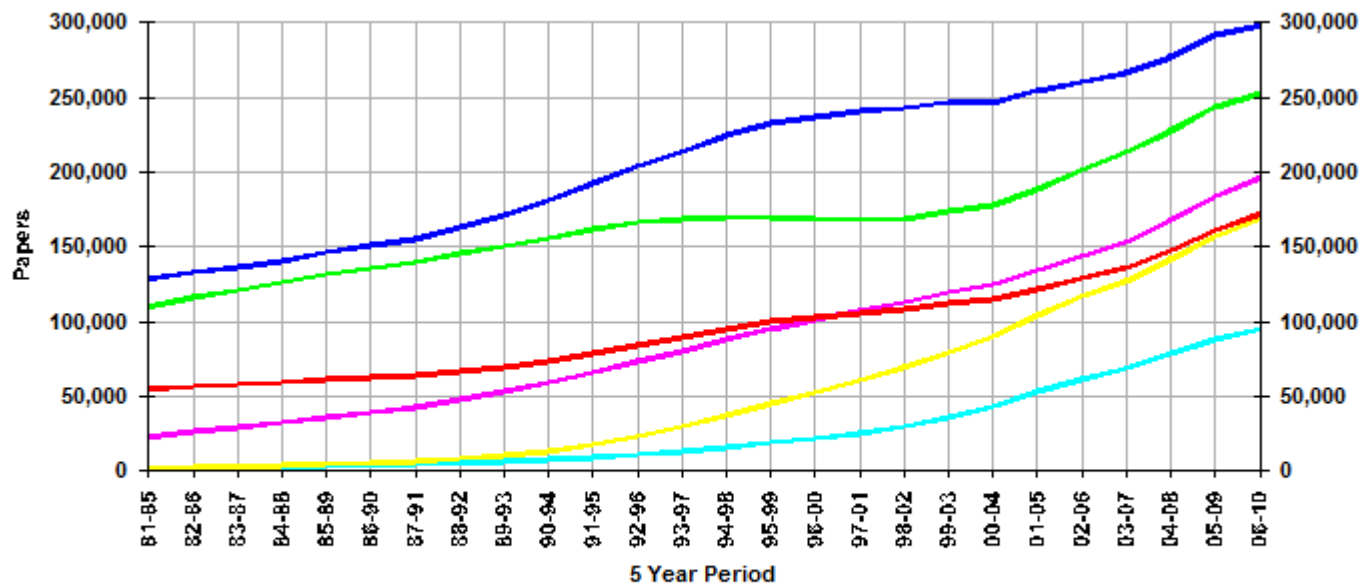
**Clinical Medicine**

**Engineering**

**Plant & Animal Sciences**

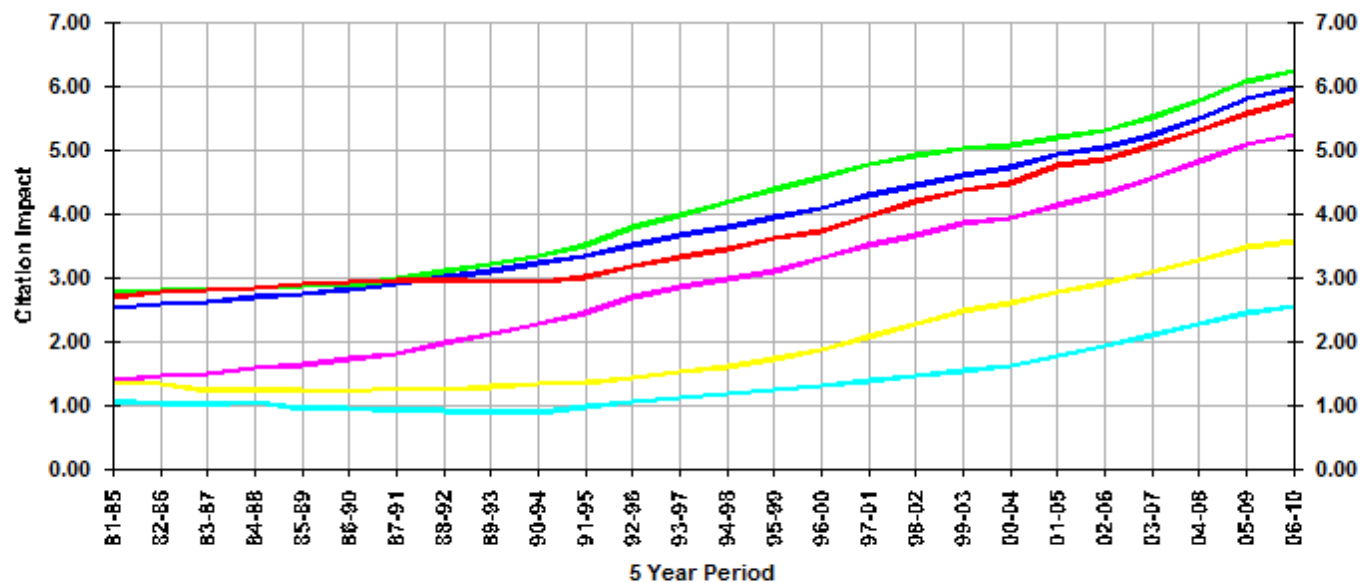
**Social Sciences**

# Research Output: 5-year Overlapping Periods 1981-2010 All Fields



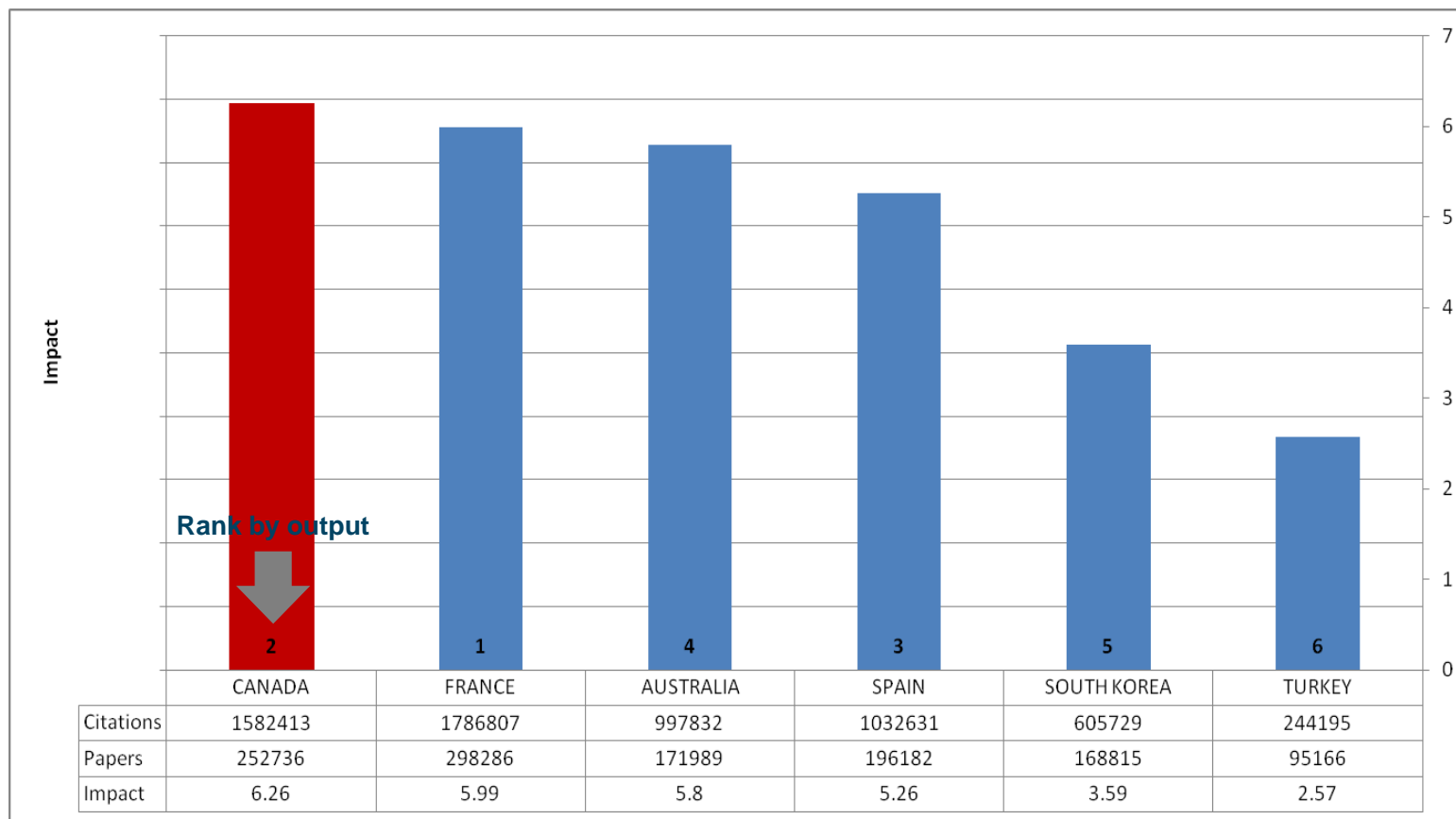
— AUSTRALIA-all fields      — FRANCE-all fields      — SPAIN-all fields  
— CANADA-all fields      — SOUTH KOREA-all fields      — TURKEY-all fields

# Citation Impact: 5-year Overlapping Periods 1981-2010 All Fields

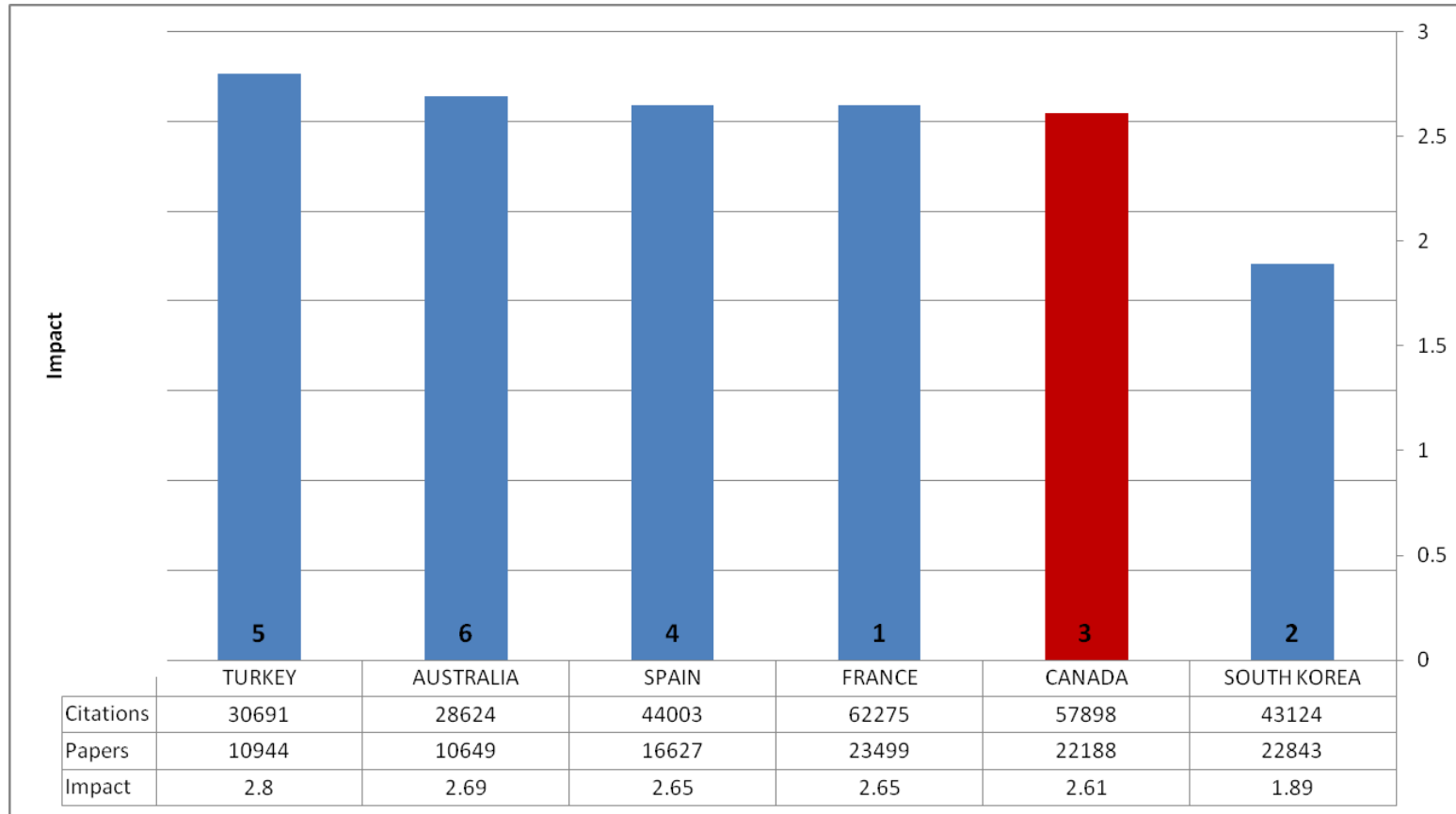


— AUSTRALIA-all fields      — FRANCE-all fields      — SPAIN-all fields  
— CANADA-all fields      — SOUTH KOREA-all fields      — TURKEY-all fields

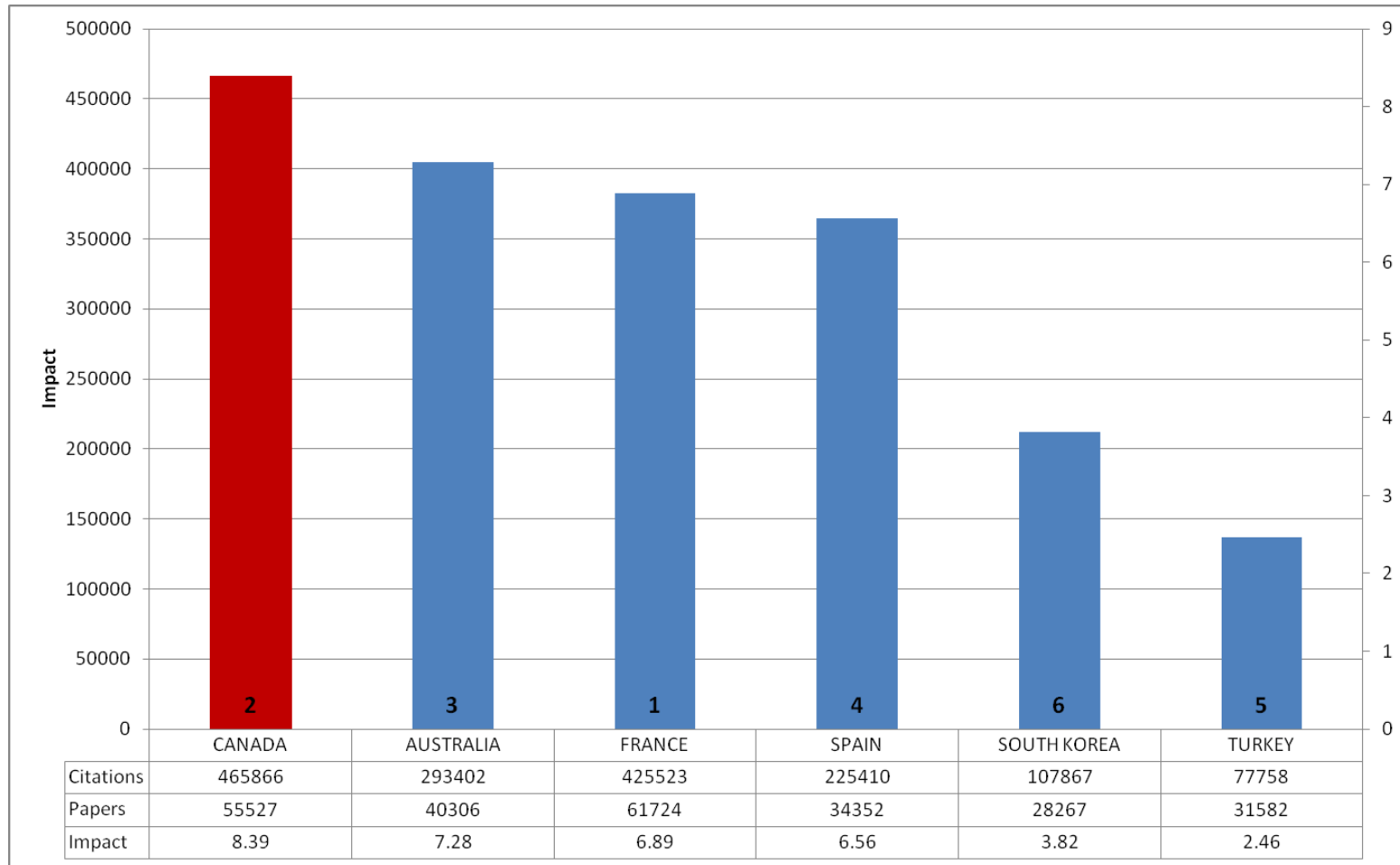
# Chemistry: Rank by Citation Impact (2006-2010) with rank by output indicated



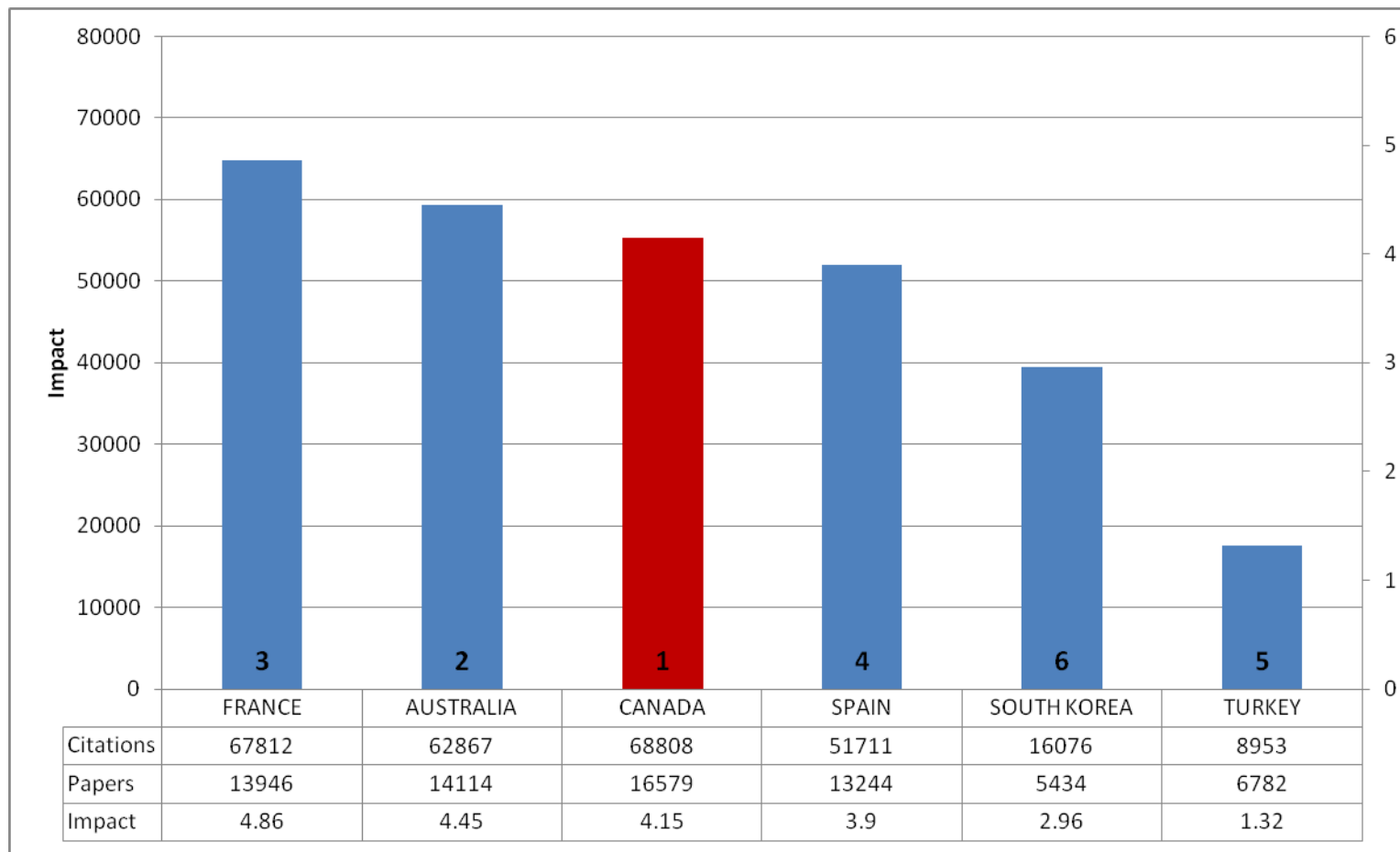
# Engineering: Rank by Citation Impact (2006-2010) with rank by output indicated



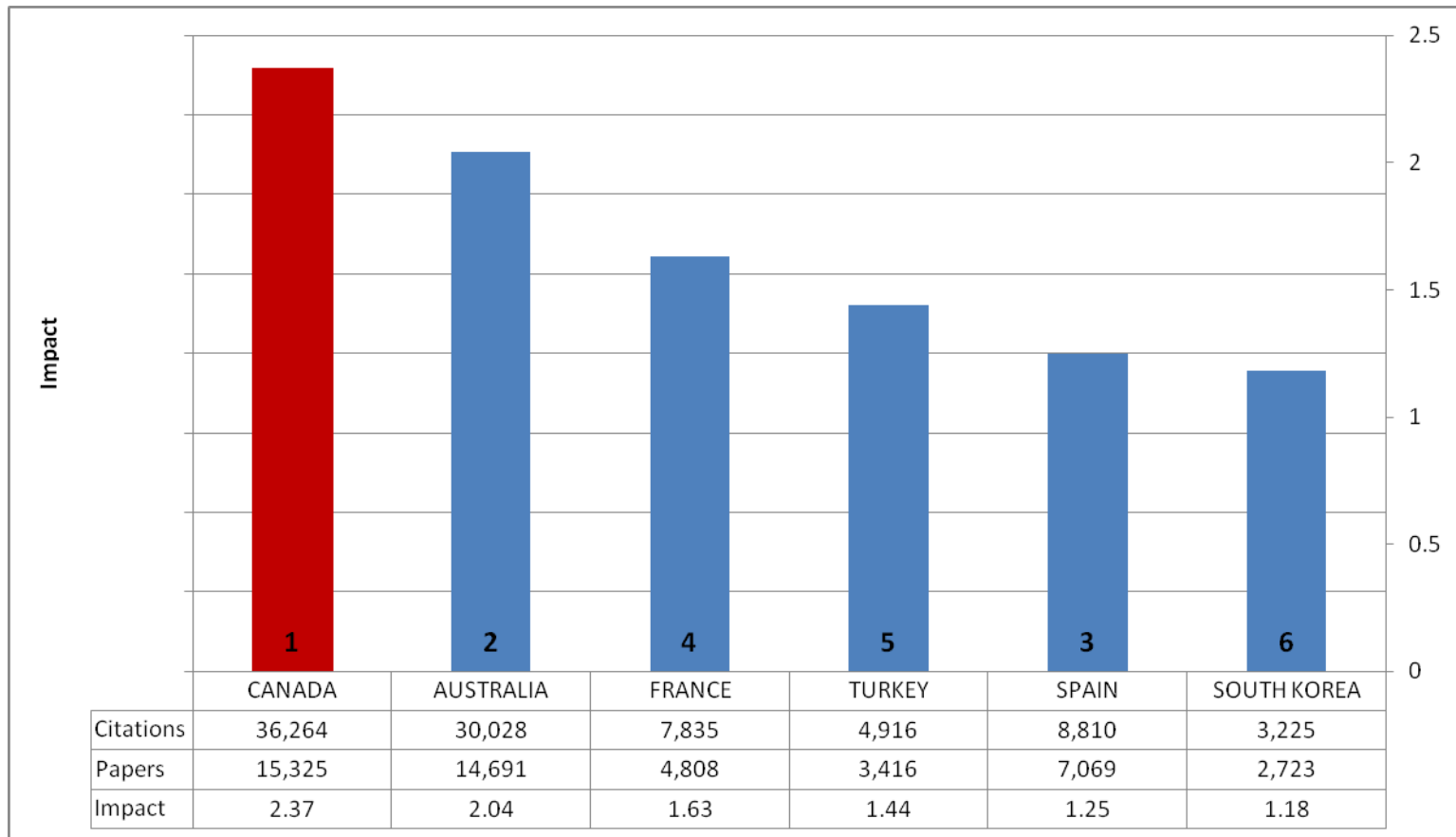
# Clinical Medicine: Rank by Citation Impact (2006-2010) with rank by output indicated



# Plant & Animal Science: Rank by Citation Impact (2006-2010) with rank by output indicated



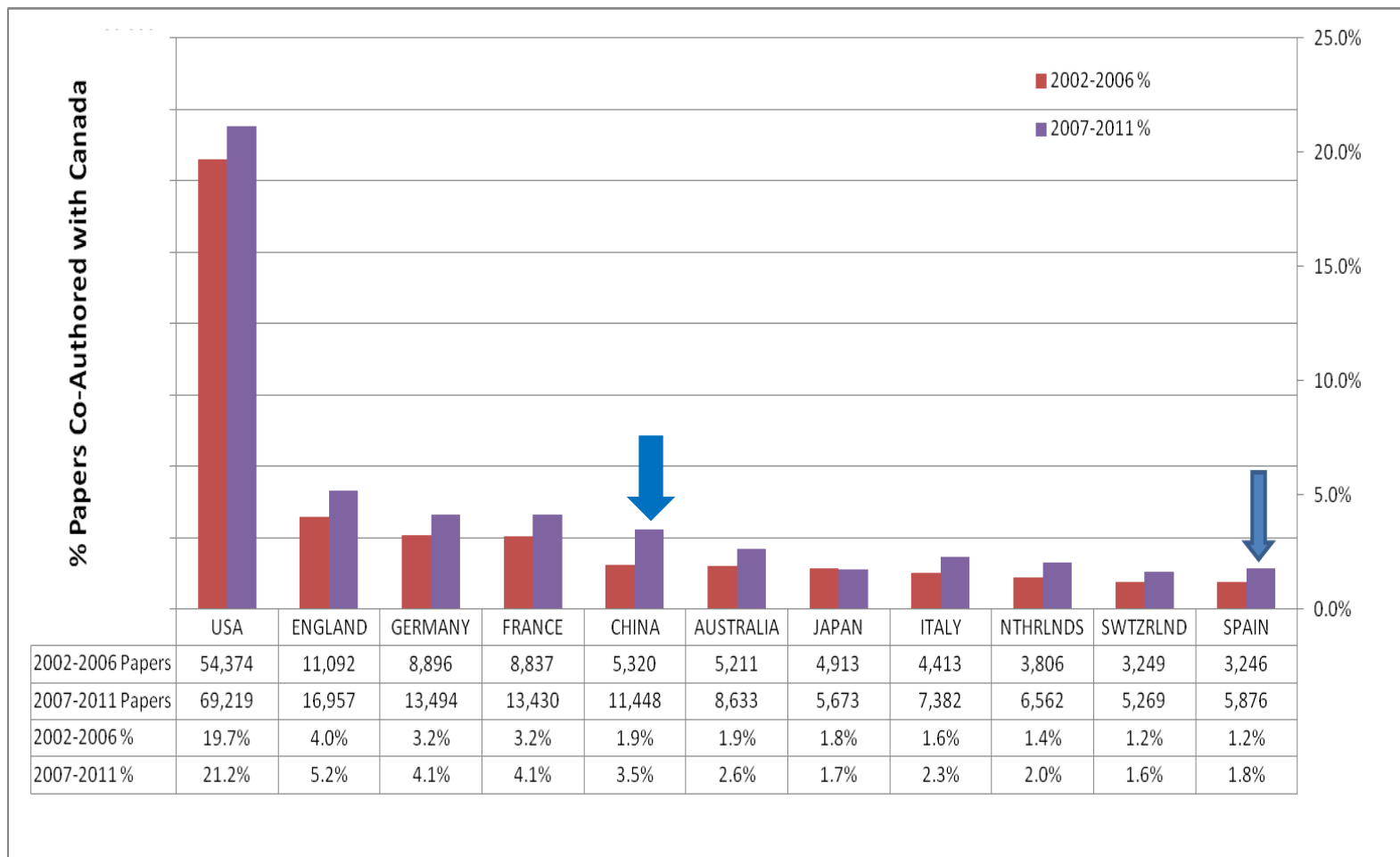
# Social Sciences: Rank by Citation Impact (2006-2010) with rank by output indicated



# Canada's Co-Authors in Web of Science

- ▣ 2002-2006
- ▣ 2007-2011

# Canadian Author Collaboration in Web of Science



# Book Citation Index in Web of Science

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- Released October 9, 2011
- Scholarly Books in all subject areas
  - **Social Science and Humanities – 56%**
  - **Natural Sciences, Engineering – 44%**
- Books in Series (70%) and Monographs (30%)
- Content will include:
  - **Original research or Reviews**
  - **Dissertations (as part of an established book series)**
  - **Graduate level texts**
  - **Translations if scholarly commentary is present**
- Coverage at launch:
  - 25,000 volumes
  - 325,000 chapters
  - 13,650,000 cited references

# How Can I Improve My Journal?

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1. Active recruitment of high-impact articles by courting researchers
2. Offering authors better services
3. Boosting the journal's media profile
4. More careful article selection

-M. Chew, E. V. Villanueva, and M. B. Van Der Weyden, *Journal of the Royal Society of Medicine* **100** (3), 142 (2007).

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***Thank you.***

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***Book Citation Index***

[http://wokinfo.com/products\\_tools/multidisciplinary/bookcitationindex/](http://wokinfo.com/products_tools/multidisciplinary/bookcitationindex/)

