

# Using Scopus as a Research and Publishing Tool

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Elsevier Research Intelligence

Asian Institute of Technology Thailand, Bangkok  
March 20, 2015

# Agenda

- Introducing Scopus
- How Scopus supports the researcher
- What content is in Scopus
- Scopus for Search and Discovery
- Scopus for Evaluation and Analysis



## Introducing Scopus

Scopus is the largest abstract and citation database of peer-reviewed research literature from around the world. It's the core data source of Elsevier Research Intelligence solutions, and used by academics, government researchers and corporate R&D professionals who need a comprehensive and efficient place to search, discover and analyze research.

Over 21,900 titles from more than 5,000 international publishers and 105 different countries

Over 54 million records, 23 million patents from 5 patent offices worldwide

All content is vigorously vetted by an independent, 15-person, international board of experts called the Content Selection and Advisory Board (CSAB)

More than 3,000 customers worldwide in all geographic regions

## A researcher reads > 300 articles per year

**3.7 Hrs** spent  
SEARCHING for  
articles per week

Researchers spend an average  
**10 hours per week** searching  
for and reading articles



....of which, **3.5 hours** is spent  
searching for research articles and  
**5.5 hours** reading.

- Researchers in Chemistry and Life Science spend longer than average searching for articles and chemists spend longer reading
- Younger researchers spend > **4hrs** a week searching.
- Researchers from China spend longer searching (**six hours**) and reading (**nine hours**) articles than any other country.

n=4,225

**5.6 Hrs** spent  
READING articles per  
week

**6 articles** read  
per week

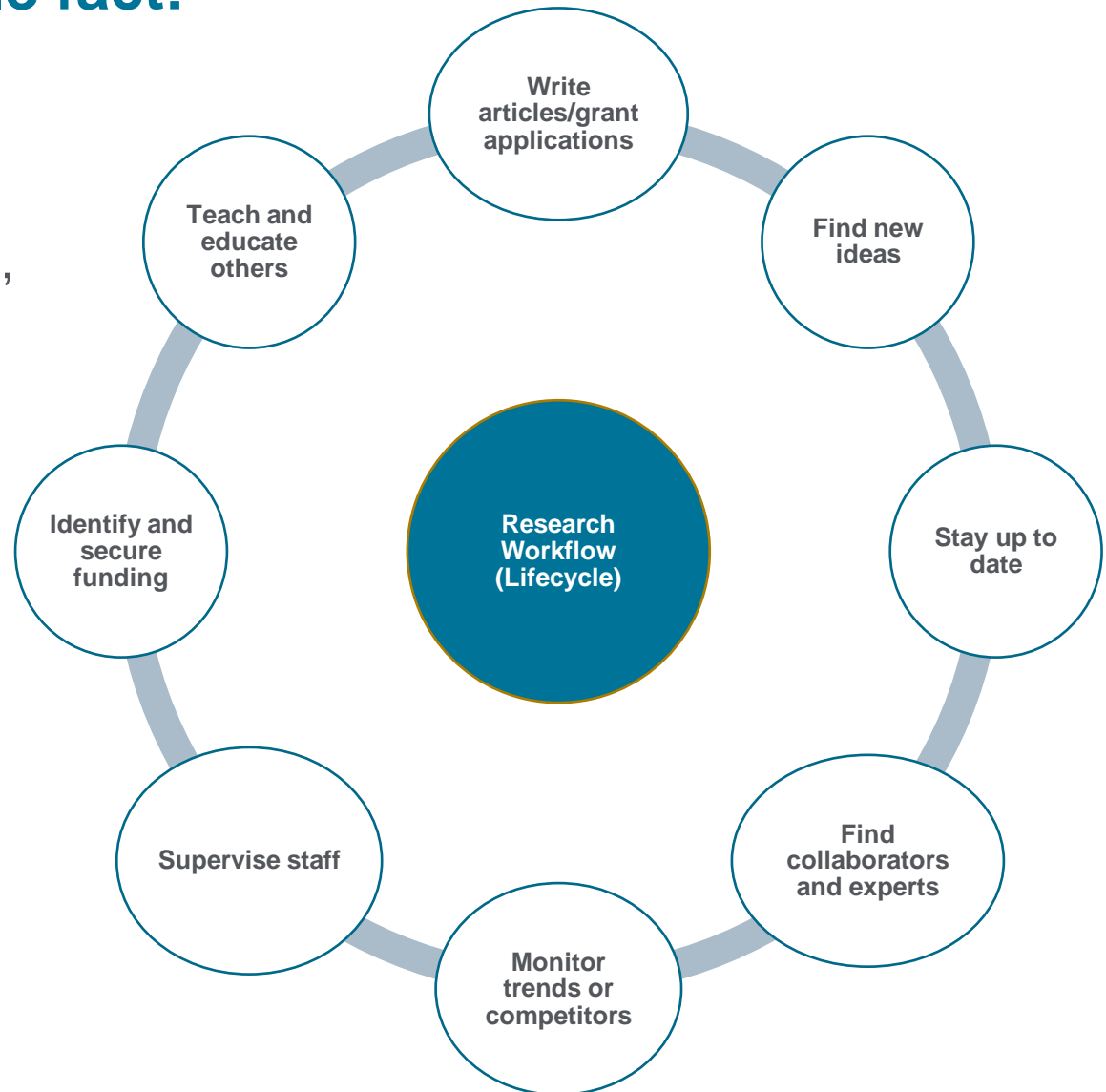
**42%** regarded as  
'important'

- A researcher typically reads **six** articles per week.
- Chemists read nine per week. Mathematicians read four articles per week.
- China-based researchers read one more than average per week (7 articles).
- After searching and reading for 10 hrs per week only 42% of the papers read are considered important.

# To progress his/her research career, a researcher is faced with this simple fact:

In order to apply for grants, conduct novel research, summarize research findings, or write original research articles.

A researcher must **find**, **read**, and **cite** relevant research material.



# Scopus can help researchers & students



# What content is in Scopus?



# Scopus represents the World of Research

## Scopus

The largest abstract and citation database of peer-reviewed literature.

**53.3M** records from **5000** publishers

- >21,000 journals
- Titles from 105 different countries world-wide
- 40 “local” languages covered
- 27 Thai Journals in Scopus
- More than 2,800 Gold Open Access journals





# What content does Scopus include?

**Physical Sciences**  
6,600

**Health Sciences**  
6,300

**Social Sciences**  
6,350

**Life Sciences**  
4,050

## JOURNALS

**21,912** peer-reviewed journals  
**367** trade journals

- Full metadata, abstracts and cited references (pre-1996)
- >2,800 fully Open Access titles
- Going back to 1823
- Funding data from acknowledgements

## CONFERENCES

**17k** events  
**5.5M** records (10%)

Conf. expansion:  
**1,000** conferences  
**6,000** conf. events  
**400k** conf. papers  
**5M** citations

Mainly Engineering and Physical Sciences

## BOOKS

**421** book series  
- **28K** Volumes  
- 925K items

**29,917** books  
- 311K items

**Books expansion:**  
**75K** books by 2015  
- Focus on Social Sciences and A&H

## PATENTS

**24M** patents  
from 5 major patent offices

# 10 years after launch, leading research institutes and research organizations use Scopus and Scopus data

| Institute                                | Country |
|--|---------|
| Massachusetts Institute of Technology    | US      |
| Harvard University                       | US      |
| University of Cambridge                  | UK      |
| University College London                | UK      |
| Imperial College London                  | UK      |
| University of Oxford                     | UK      |
| Stanford University                      | US      |
| Yale University                          | US      |
| University of Chicago                    | US      |
| California Institute of Technology       | US      |
| Princeton University                     | US      |
| ETH Zurich                               | CH      |
| University of Pennsylvania               | US      |
| Columbia University                      | US      |
| Cornell University                       | US      |
| Johns Hopkins University                 | US      |
| University of Edinburgh                  | UK      |
| University of Toronto                    | CA      |
| Ecole Polytechnique Federale de Lausanne | CH      |
| King's College London                    | UK      |

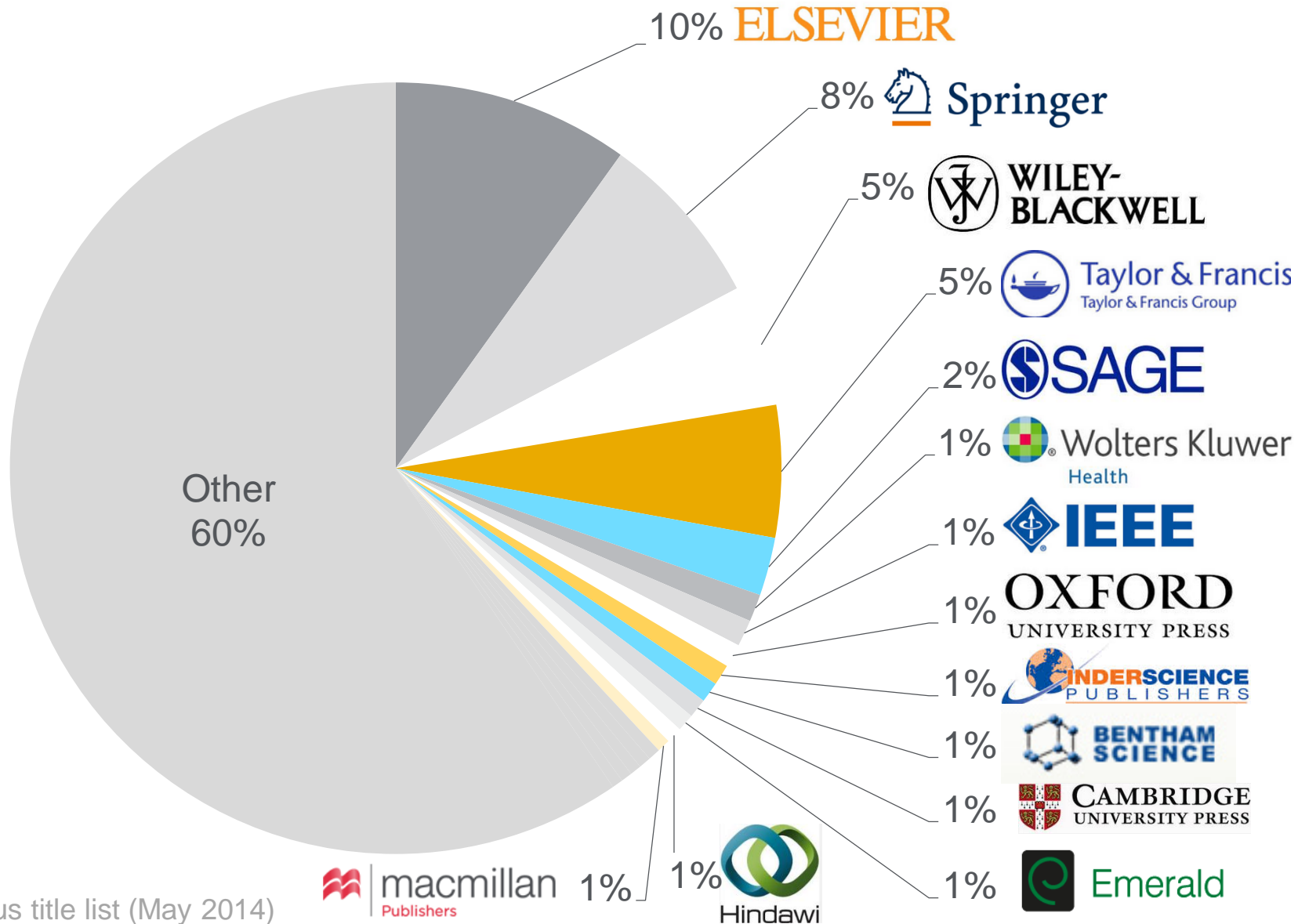


## World University Rankings use Scopus data

- Help showcase the distinctive strengths of research institutions
- Help students select their university, faculty to make career decisions and university leaders to discuss strategic priorities
- Help corporations guide investment decisions with respect to academic partnerships



# Ratio of journals per Publisher in Scopus



# Comparison with Web of Science Core Collection

## Scopus

~24K titles

>5,000 publishers

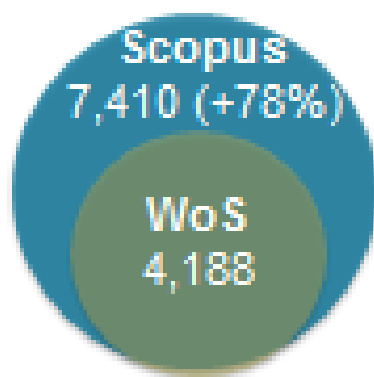
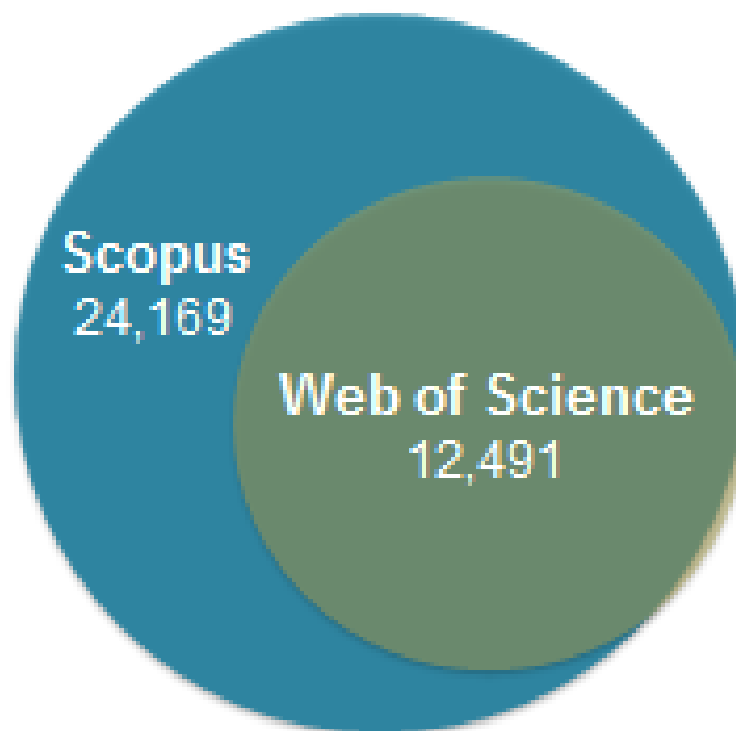
Updated daily

## WEB OF SCIENCE™

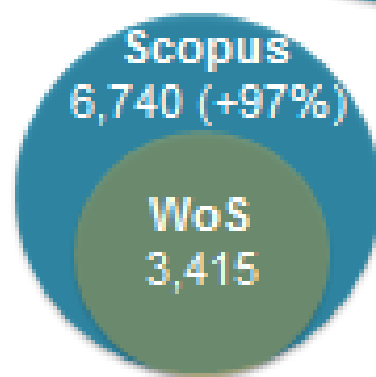
~12K titles

~3,300 publishers

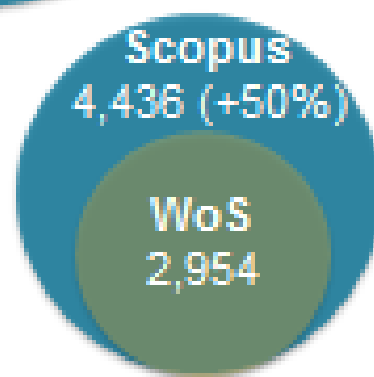
Updated weekly



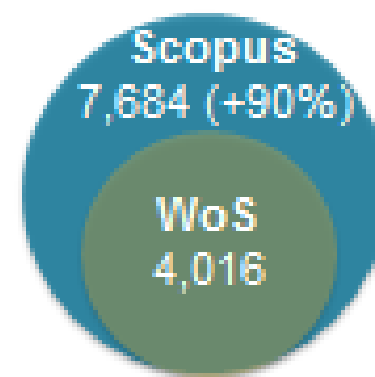
Physical Sciences



Health Sciences



Life Sciences



Social Sciences

# Indexing funding data in Scopus

Current Opinion in Biotechnology

Volume 28, August 2014, Pages 39-45

## Self-assembled two-dimensional protein arrays in bionanotechnology: From S-layers to designed lattices (Review)

Baneyx, F. ✉, Matthaei, J.F. 🧑

Department of Chemical Engineering, University of Washington, Box 351750, Seattle, WA 98195-1750, United States

### Abstract

▼ View references (49)

Although the crystalline S-layer arrays that form the exoskeleton of many archaea and bacteria have been studied for decades, a long-awaited crystal structure coupled with a growing understanding of the S-layer assembly process are injecting new excitement in the field. The trend is amplified by computational strategies that allow for in silico design of protein building blocks capable of self-assembling into 2D lattices and other prescribed quaternary structures. We review these and other recent developments toward achieving unparalleled control over the geometry, chemistry and function of protein-based 2D objects from the nanoscale to the mesoscale. © 2013 Elsevier Ltd.

### Indexed keywords

Assembly process; Bionanotechnology; Building blocks; Computational strategy; Protein arrays; Quaternary structure; Self-assembled; Self-assembling

**Engineering controlled terms:** Biotechnology

**Engineering main heading:** Proteins

**EMTREE drug terms:** ampholyte; nanomaterial; nanoparticle

**EMTREE medical terms:** archaeon; bacterium; binding affinity; binding site; computer analysis; computer model; crystal structure; Deinococcus radiodurans; Escherichia coli; exoskeleton; Geobacillus stearothermophilus; geometry; nanoanalysis; nanobiotechnology; nonhuman; physical chemistry; priority journal; process design; process development; protein assembly; protein engineering; protein function; protein microarray; protein quaternary structure; proton transport; review; Sporosarcina ureae; structure activity relation; two dimensional protein array; ultrafiltration

ISSN: 09581669 CODEN: CUOBE Source Type: Journal Original language: English

DOI: 10.1016/j.copbio.2013.11.001 Document Type: Review

## Funding Details

**Number; Acronym; Sponsor:** T32CA138312; ONR; Office of Naval Research  
**Number; Acronym; Sponsor:** BRC-11123566; NIH; **National Institutes of Health**

## WHAT FUNDING DATA:

- Full name of the funding body, **acronym** and **grant number** captured from the acknowledgments section of the article.
- Making use of the **FundRef** ontology
- **Forward flow** only, started in July 2013

## FUNDREF ONTOLOGY:

- Only funding bodies included in the FundRef ontology are captured
- Around **5,000 funding bodies** originally included in FundRef
- When processing content for Scopus new funding body terms are identified as **candidate terms**
- As of January 2014 around **1,000 new candidate terms** will be added to FundRef each month

In Scopus funding data can be searched using the following fields in Advanced Search:

**FUND-SPONSOR | FUND-ACR | FUND-NO**

For example, the advanced search term "**FUND-SPONSOR(National Science Foundation)**" will result in all articles that mention the National Science Foundation as the funding body in the acknowledgements.

# Scopus for Search and Discovery



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Search for... *Eg., "heart attack" AND stress*  Article Title, Abstract, Keywords

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Limit to:

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- Health Sciences (> 6,800 titles. 100% Medline coverage)

Document Type

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- Review
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- Book
- Book Chapter
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### Year


- 2015 (23)
- 2014 (4,401)
- 2013 (6,955)
- 2012 (6,428)
- 2011 (5,389)

### Keyword

- Renewable energy resources (20,934)
- Renewable energies (10,916)
- Renewable energy (7,894)
- Wind power (6,624)
- Renewable resource (5,694)





### Source Title

|                          |   |                                      |      |  |   |
|--------------------------|---|--------------------------------------|------|--|---|
| <input type="checkbox"/> | The importance and impact of fossil and renewable energy sources in turkey on business and the economy<br>1     | Gökmen, A., Temiz, D.                | 2015 | Energy Sources, Part B: Economics, Planning and Policy       | 0 |
|                          | View at Publisher   |                                      |      |  |   |
| <input type="checkbox"/> | Overview of tidal power technology<br>2   | Sleiti, A.K.                         | 2015 | Energy Sources, Part B: Economics, Planning and Policy       | 0 |
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| <input type="checkbox"/> | A comparative study of feed-in tariff and renewable portfolio standard policy in renewable energy industry<br>3 | Sun, P., Nie, P.-Y.                  | 2015 | Renewable Energy   | 0 |
|                          | View at Publisher   |                                      |      |  |   |
| <input type="checkbox"/> | Integrated circuit and system design for renewable energy inverters<br>4  | Kuo, Y.-C., Huang, Y.-M., Liu, L.-J. | 2015 | International Journal of Electrical Power and Energy Systems | 0 |
|                          | View at Publisher   |                                      |      |  |   |
| <input type="checkbox"/> | Energy consumption analysis of wheat production in West Azarbayjan utilizing life cycle assessment (LCA)<br>5   | Taghavifar, H., Mardani, A.          | 2015 | Renewable Energy   | 0 |
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IEEE Transactions on Power Electronics

Volume 30, Issue 1, January 2015, Article number 6883248, Pages 163-175

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## Analysis and control of modular multilevel converters with integrated battery energy storage (Article)

Vasiladiotis, M.  , Rufer, A. 

Laboratory of Industrial Electronics, Ecole Polytechnique Fédérale de Lausanne, 1015 Lausanne, Switzerland

### Abstract

[View references \(47\)](#)

Multilevel converters and battery energy storage systems are key components in present and future medium voltage networks, where an important integration of renewable energy sources takes place. The modular multilevel converter offers the capability of embedding such energy storage elements in a split manner, given the existence of several submodules operating at significantly lower voltages. This paper analyzes such a converter structure under different operating modes. In order to eliminate the low-frequency components of the submodule output currents, the latter are interfaced to the batteries by means of nonisolated dc/dc converters. Control algorithms are developed for the balancing of the battery state of charges and the respective gain limitations are established. Unbalanced grid conditions are also taken into account through the theory of symmetrical components and solutions are proposed. Finally, the development of a down-scaled prototype is described and experimental results are presented. © 1986-2012 IEEE.

### Author keywords

Active power control; battery energy storage system (BESS); integrated split storage; modular multilevel converter; prototype; state of charge (SoC) balancing; symmetrical components

Cited by 1 document since 1996

#### Comparison of phase-shifted and level-shifted PWM in the modular multilevel converter

Darus, R. , Konstantinou, G. , Pou, J.  
(2014) 2014 International Power Electronics Conference, IPEC-Hiroshima - ECCE Asia 2014[View details of this citation](#)

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#### Operation, control, and applications of the modular multilevel converter: A review

Debnath, S. , Qin, J. , Bahrani, B.  
(2015) IEEE Transactions on Power Electronics

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Engineering 20%

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on business Gökmen, A., Temiz, D.


Year

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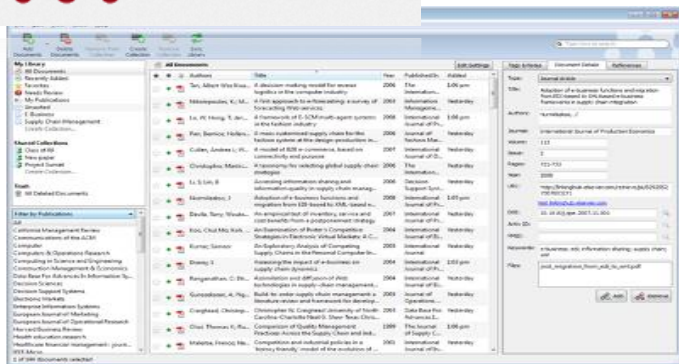
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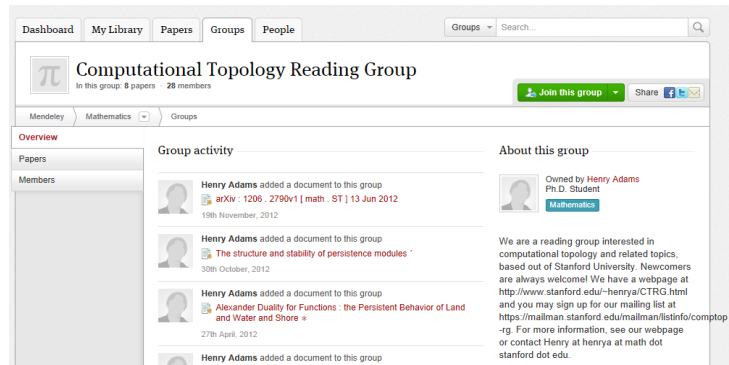
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2013 international conference on advanced building construction and materials 2013, ABCM 2013 (2014). Retrieved from [www.scopus.com](http://www.scopus.com)

2013 international conference on future energy, environment, and materials, FEEM 2013. (2014). Paper presented at the *WIT Transactions on Engine*

2013 international conference on services science and services information technology, SSSIT 2013. (2014). Paper presented at the *WIT Transactio*  
from [www.scopus.com](http://www.scopus.com)

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2014 4th international conference on mechanical science and engineering, ICMSE 2014 (2014). Retrieved from [www.scopus.com](http://www.scopus.com)

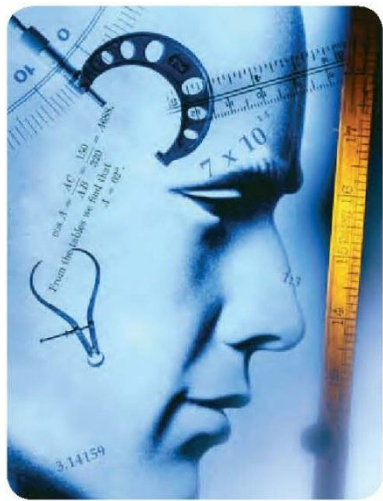
3rd international conference on energy, environment and sustainable development, EESD 2013 (2014). Retrieved from [www.scopus.com](http://www.scopus.com)

4th international conference on mechanical and manufacturing engineering, ICME 2013 (2014). Retrieved from [www.scopus.com](http://www.scopus.com)

Conclusions and recommendations (2014). Retrieved from [www.scopus.com](http://www.scopus.com)

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Content cover





# Scopus for Evaluation and Analysis



# Understand the Profile of any University

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Bangkok  
Thailand  
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Documents: 5,242

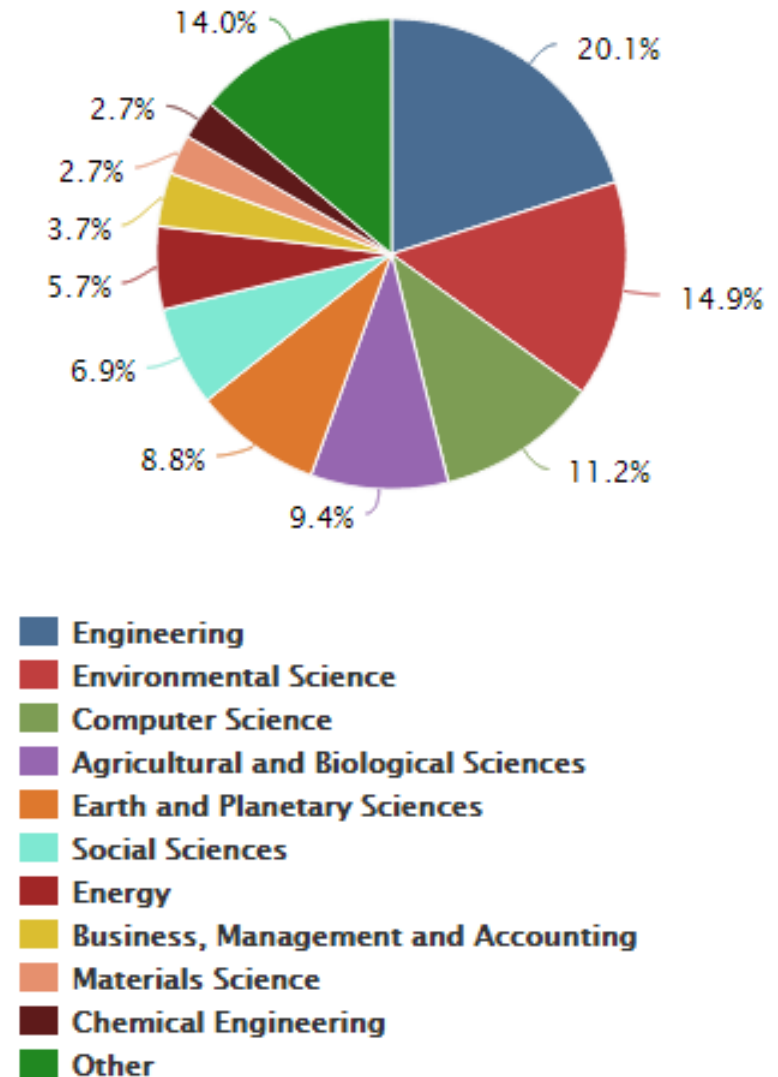
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Patent results: 4

### Collaborating affiliations

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| Sirindhorn International Institute of Technology,<br>Thammasat University | 61        |





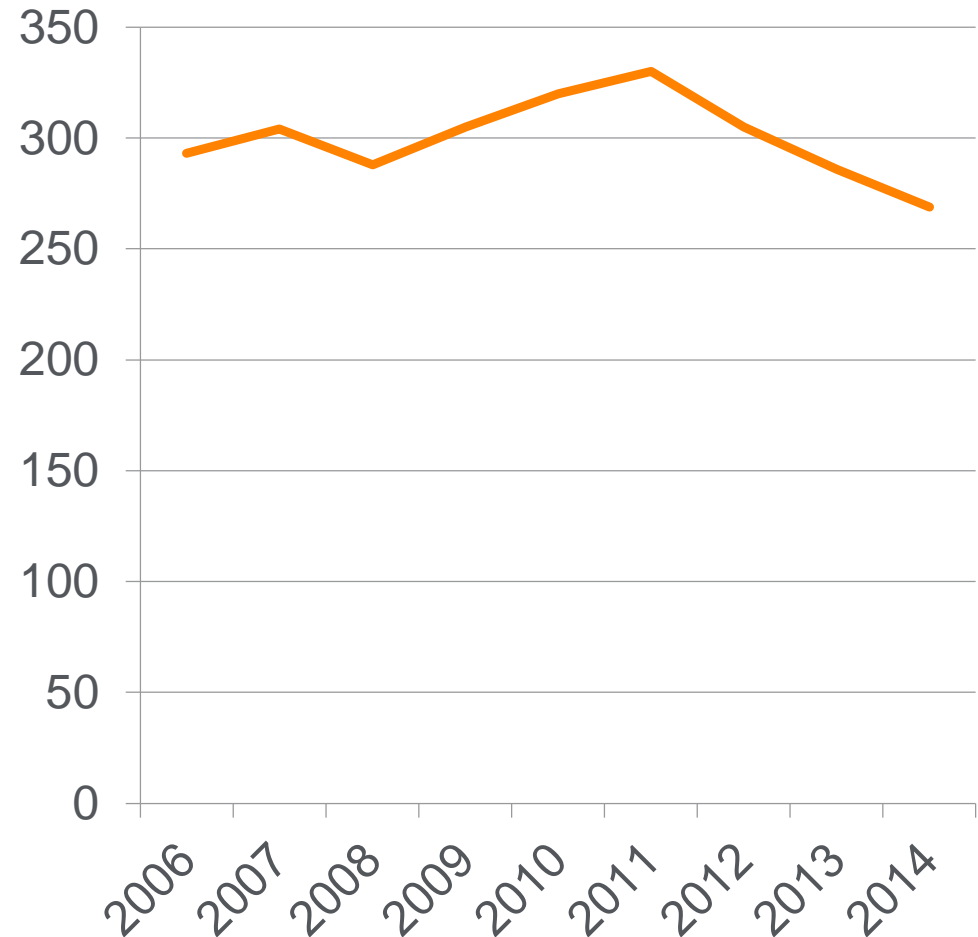
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### Publications

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| <input type="checkbox"/> 2013 | (286) |
| <input type="checkbox"/> 2012 | (305) |
| <input type="checkbox"/> 2011 | (330) |
| <input type="checkbox"/> 2010 | (320) |
| <input type="checkbox"/> 2009 | (305) |
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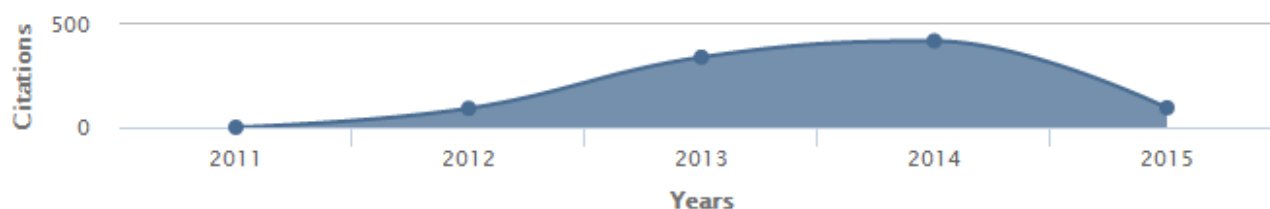
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|   |   |      |  |    |    |    |   |            |  |            |
|---|---|------|--|----|----|----|---|------------|--|------------|
| 1 | Simultaneously mitigating near-term climate change and impro... | 2012 |  | 39 | 85 | 57 | 6 | <b>187</b> |  | <b>187</b> |
| 2 | Zinc oxide-zinc stannate core-shell nanorod arrays for CdS q... | 2012 |  |    | 9  | 10 | 3 | <b>22</b>  |  | <b>22</b>  |
| 3 | Effect of C/N ratio and ammonia-N accumulation in a pilot-sc... | 2012 |  |    | 4  | 15 | 2 | <b>21</b>  |  | <b>21</b>  |
| 4 | Dual-sensitization via electron and energy harvesting in CdT... | 2012 |  | 1  | 10 | 3  | 4 | <b>18</b>  |  | <b>18</b>  |
| 5 | Fabrication of zinc oxide nanorods modified activated carbon... | 2012 |  |    | 2  | 9  | 6 | <b>17</b>  |  | <b>17</b>  |

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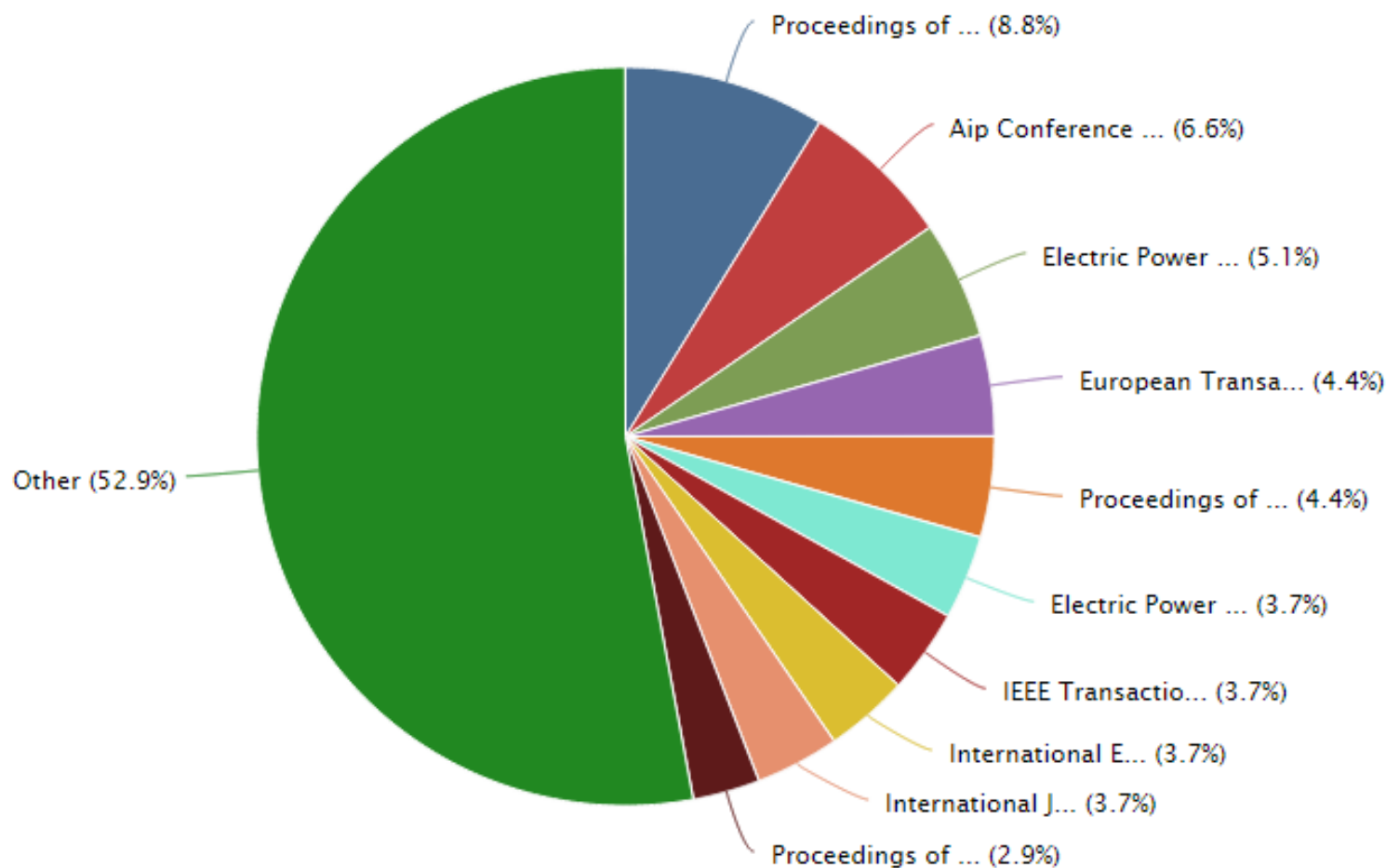
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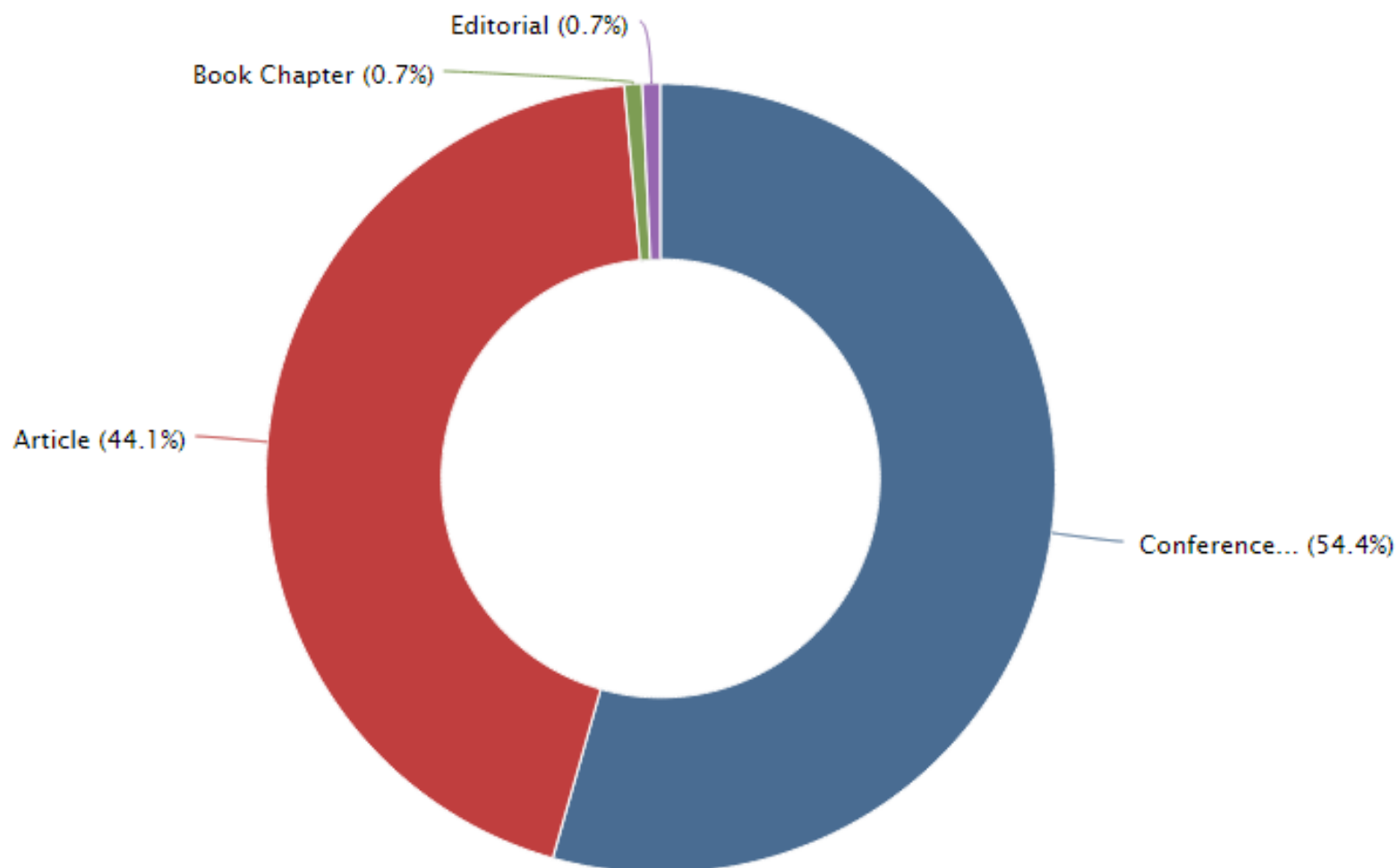
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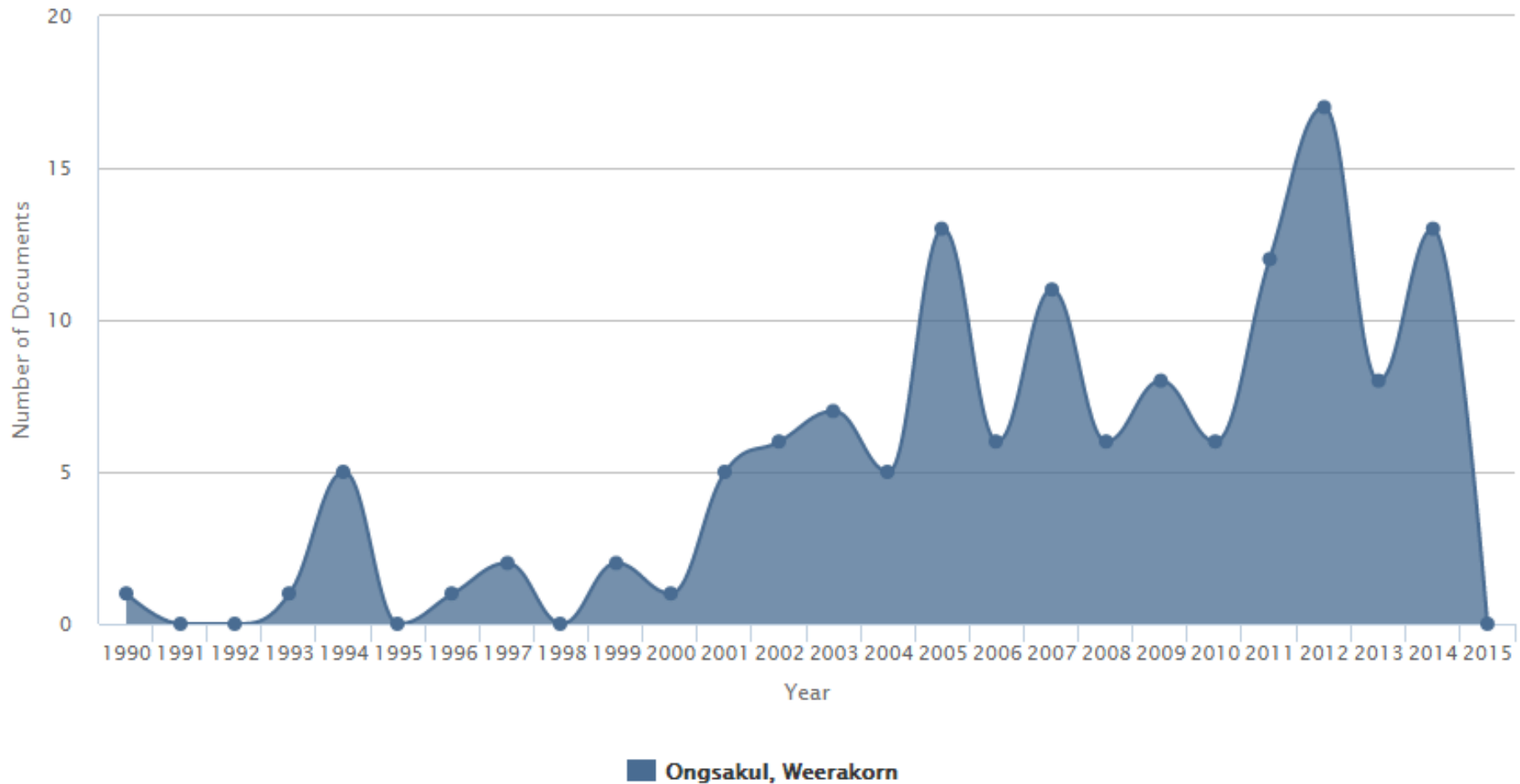
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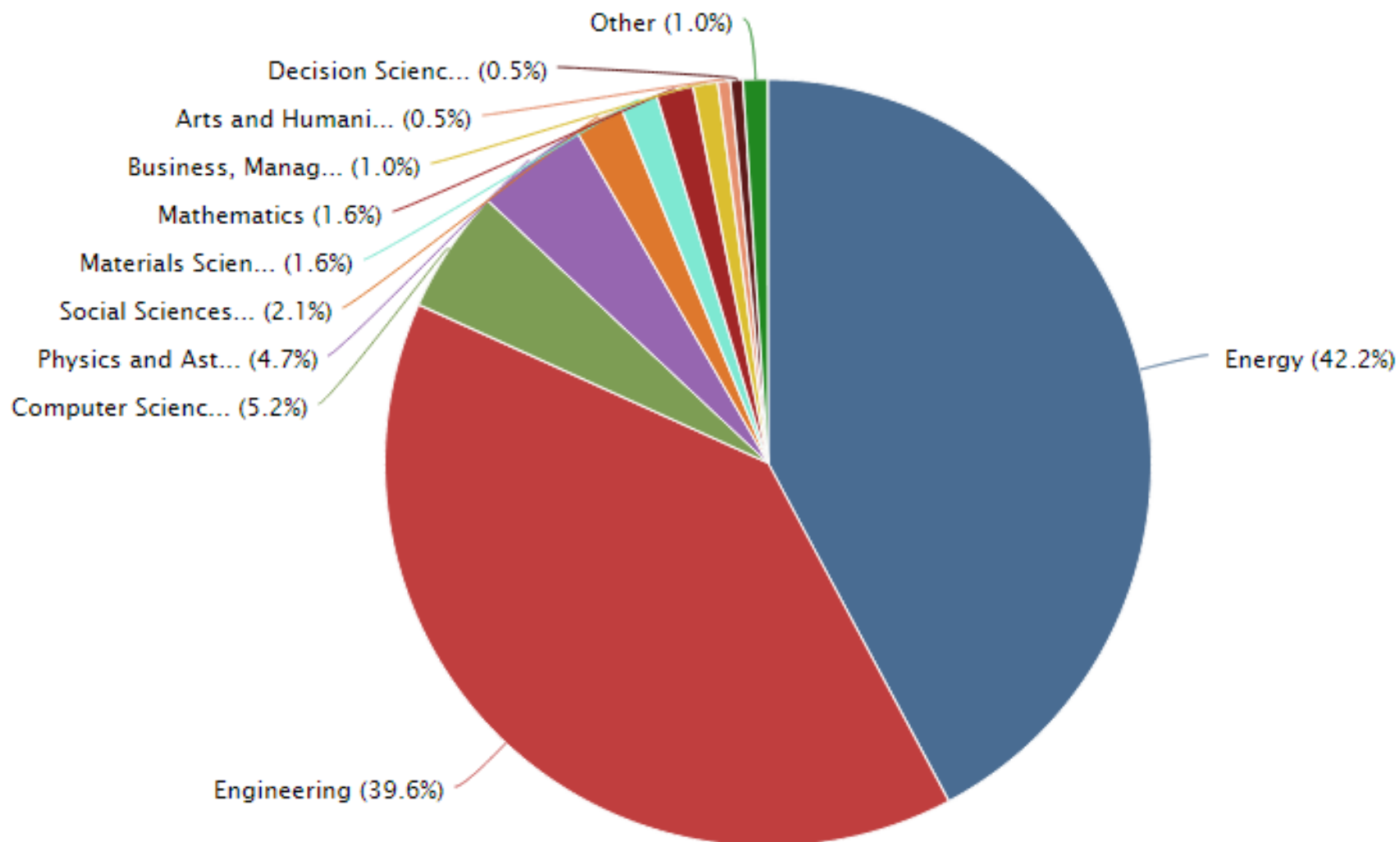
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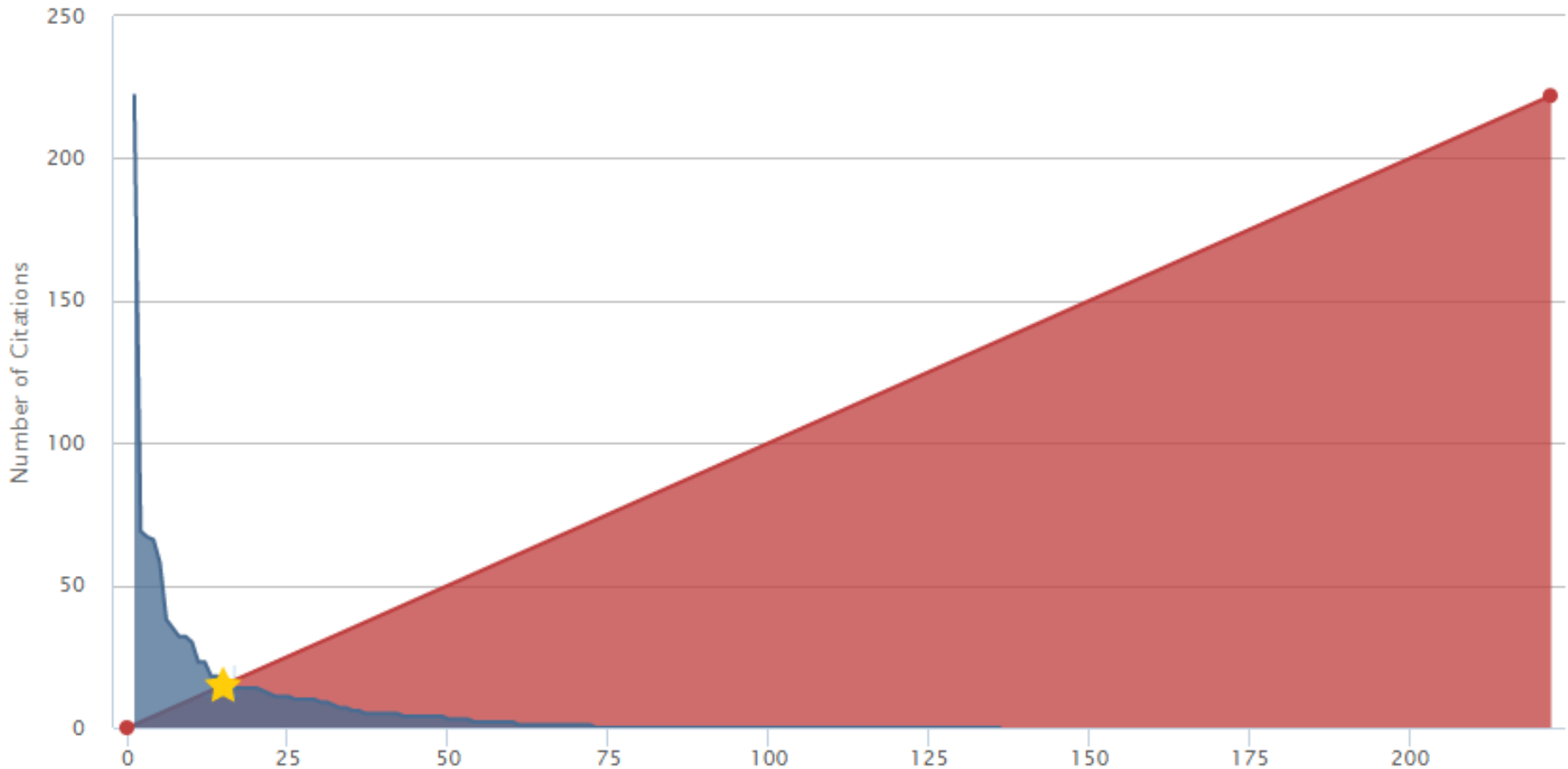


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This author's  $h$ -index is 15

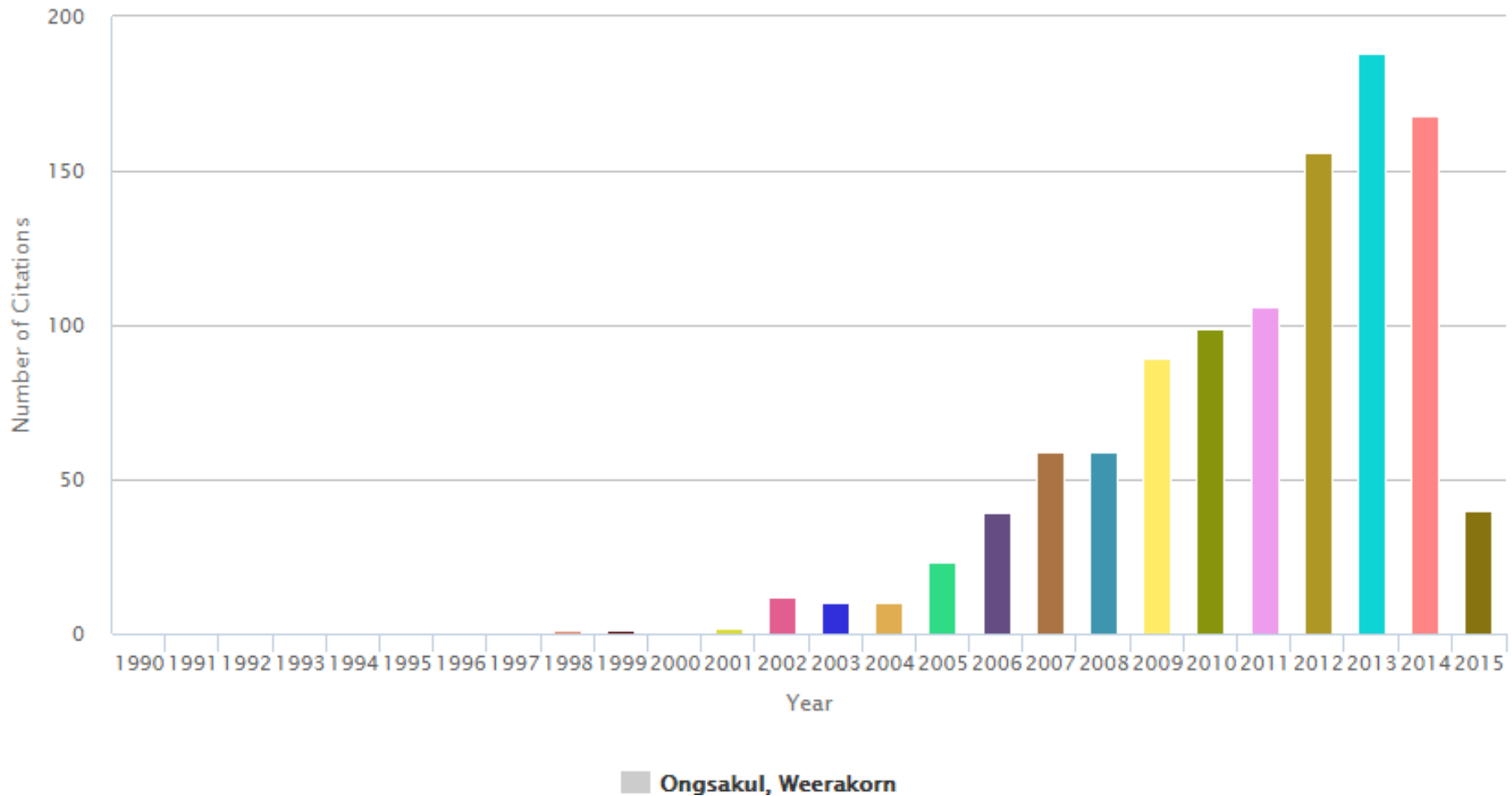
The  $h$ -index is based upon the number of documents and number of citations.



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*h*-index (15)

Citations (1062)

**Co-authors (88)**

## Co-authors (88)

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|--------------------------|---|--------------------------------------|
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| Singh, Jai Govind        | 11  | <a href="#">View Total Documents</a> |
| Boonchuay, Chanwit       | 9   | <a href="#">View Total Documents</a> |
| Chayakulkheeree, Keerati | 8   | <a href="#">View Total Documents</a> |
| Huang, Garng             | 8   | <a href="#">View Total Documents</a> |
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| Limpasuwan, Tanachai     | 6   | <a href="#">View Total Documents</a> |
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# Analyze Journals

## Water Science and Technology

Formerly known as: [Progress in Water Technology](#)

**Subject Area:** Environmental Science: Environmental Engineering  
Environmental Science: Water Science and Technology

**Publisher:** IWA Publishing

**ISSN:** 0273-1223

**Scopus Coverage Years:** 1970, from 1980 to 2014

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Scopus Journal Metrics offer the value of context with their citation measuring tools. The metrics below allow for direct comparison of journals, independent of their subject classification. To learn more, visit: [www.journalmetrics.com](http://www.journalmetrics.com).

---

**SJR (SCImago Journal Rank) (2013) :** 0.600

**IPP (Impact per Publication) (2013) :** 1.238

**SNIP (Source Normalized Impact per Paper) (2013) :** 0.717

 [Compare with other journals](#)

# Compare Journals

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IPP

**SNIP**

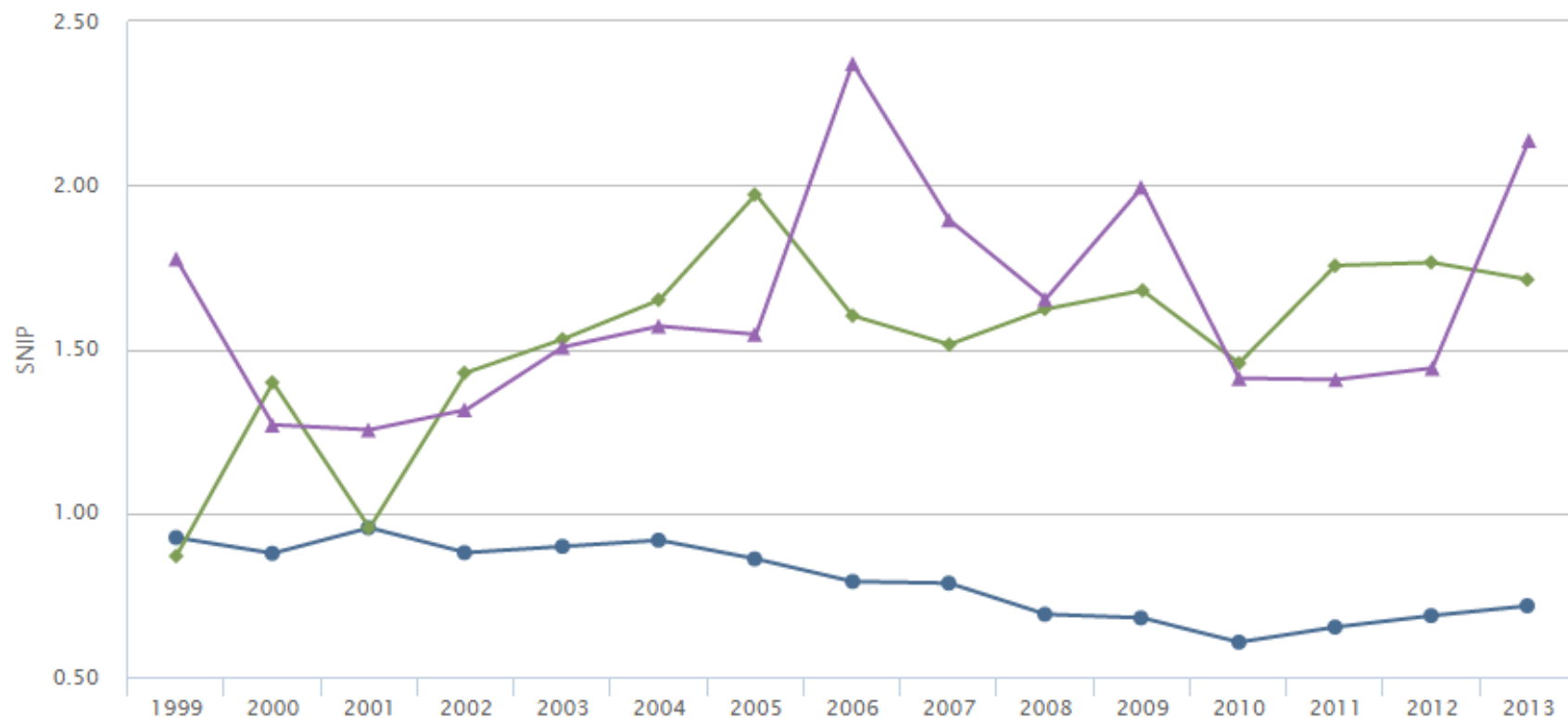
Citations

Documents

% Not cited

% Reviews

## Source normalized impact per paper by year ?

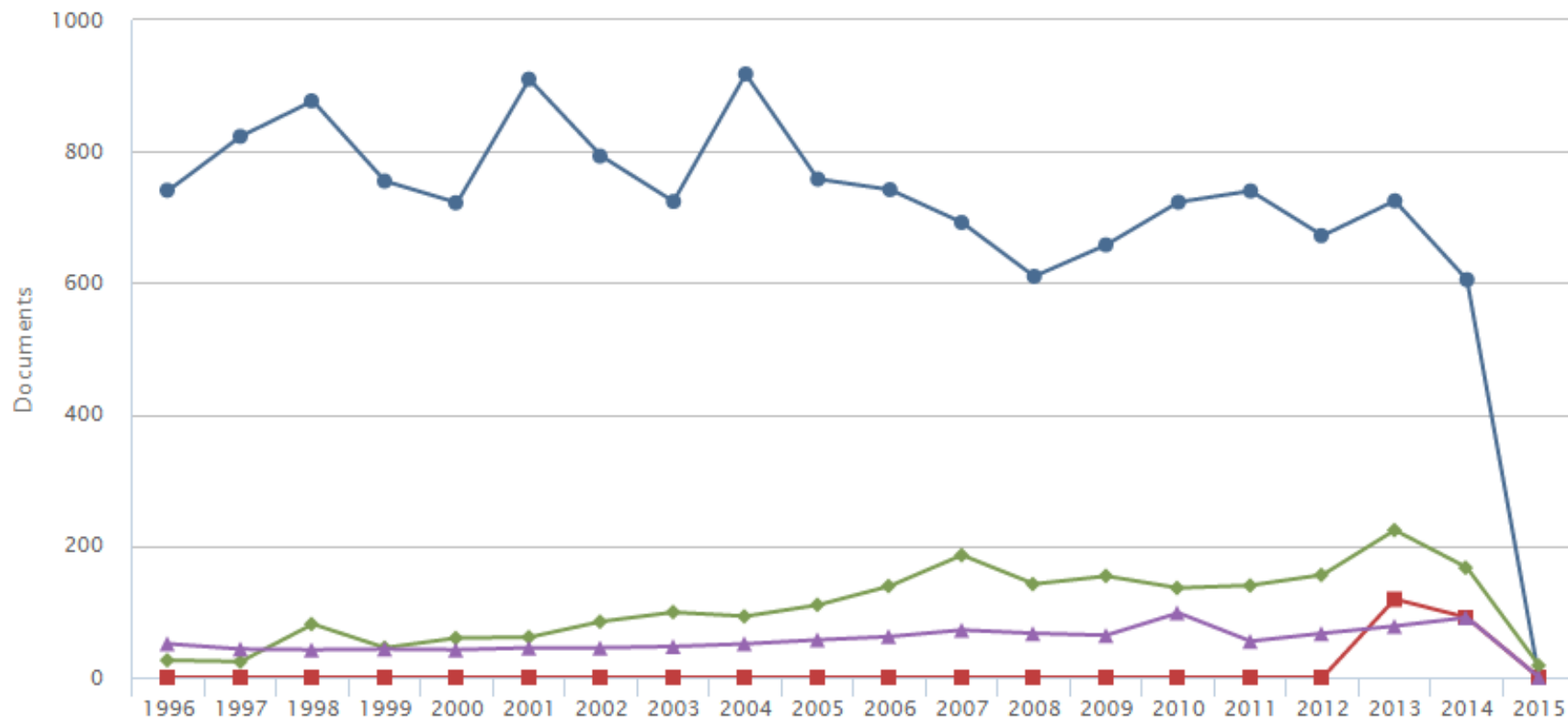


- Water Science and Technology
- Advances in Water Resources
- Journal of Water Resources Planning and Management - ASCE

# Compare Journals

| SJR | IPP | SNIP | Citations | <b>Documents</b> | % Not cited | % Reviews |
|-----|-----|------|-----------|------------------|-------------|-----------|
|-----|-----|------|-----------|------------------|-------------|-----------|

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- Advances in Water Resources
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**Thank you!**