NEW TOPICS IN ORGANIC CHEMISTRY (MS)

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THE CITATION INDEX

- Concept first developed by Dr Eugene Garfield
  - *Science*, 1955

- The *Science Citation Index* (1963)
  - SCI print (1960’s)
  - On-line with SciSearch in the 1970’s
  - CD-ROM in the 1980’s
  - Web interface (1997) *Web of Science*
The **impact factor (IF)** or **journal impact factor (JIF)** of an academic journal is a **scientometric index** that reflects the yearly average number of citations that recent articles published in a given journal received.

\[
IF_y = \frac{Citations_{y-1} + Citations_{y-2}}{Publications_{y-1} + Publications_{y-2}}
\]

For example, *Nature* had an impact factor of 41.577 in 2017:

\[
IF_{2017} = \frac{Citations_{2016} + Citations_{2015}}{Publications_{2016} + Publications_{2015}} = \frac{32389 + 41701}{880 + 902} = 41.577
\]
H-Index

aimed for fair ranking of scientists:

Invented by Jorge Hirsch, a physicist at the University of California, San Diego

\( h\text{-index} = \) highest number of papers a scientist has that have each received at least that number of citations

\( H= 50; \) meaning that researcher has 50 papers, each of them cited 50 times
Example of H rank calculation:

| Paper 1 | cited 3 times |
| Paper 2 | cited 8 times |
| Paper 3 | cited 4 times |
| Paper 4 | cited 0 times |
| Paper 5 | cited 13 times |
| Paper 6 | cited 3 times |
| Paper 7 | cited 2 times |
| Paper 8 | cited 12 times |
| Paper 9 | cited 85 times |
| Paper 10| cited 0 times |
| Paper 11| cited 8 times |

| Rank 1  | cited 85 times |
| Rank 2  | cited 13 times |
| Rank 3  | cited 12 times |
| Rank 4  | cited 8 times |
| Rank 5  | cited 8 times |
| Rank 6  | cited 4 times |
| Rank 7  | cited 3 times |
| Rank 8  | cited 3 times |
| Rank 9  | cited 2 times |
| Rank 10 | cited 0 times |
| Rank 11 | cited 0 times |
https://www.scimagojr.com/journalrank.php
Search Rules

Boolean Search Operators: (AND, OR, NOT, and SAME)

Truncation (Wildcards): ( *, ?, $ )
## Boolean Search

All search terms must occur to be retrieved.

**TOPIC: “stem cell**” AND lymphoma

Retrieves documents that contain the phrase stem cell and the term lymphoma. This is equivalent to searching “stem cell” lymphoma.

Any one of the search terms must occur to be retrieved. Use when searching variants and synonyms.

**TOPIC: aspartame OR saccharine OR sweetener**

Retrieves documents that contain at least one of the terms.

Excludes records that contain a given search term.

**TOPIC: aids NOT hearing**

Retrieves documents with aids, excluding any which also contain hearing.
# Truncation

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Retrieves</th>
</tr>
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</table>
| *      | Zero or more characters  
gene*  
*gene, genetics, generation* |
| $      | Zero or one character  
colo$r  
*color, colour* |
| ?      | One character only  
en?qoblast  
*entoblast, endoblast* |
## Proximity Operators

| Phrase searching | To search for an exact phrase enter the phrase in quotation marks.  
| Example: “stem cell” |
|------------------|-------------------------------------------------------------------|
| Same             | Terms must occur within the same sentence, where “sentence” is generally a period-delimited string, in any order.  
| In keyword fields, the SAME operator will retrieve records with search terms in the same keyword phrase.  
| Example: stem SAME cell |
Stopwords are common, frequently used words such as articles (a, an, the), prepositions (of, in, for, through), and pronouns (it, their, his) that cannot be searched as individual words in the Topic and Title fields.

If you include a *stopword* in a phrase, the stopword is interpreted as a word *placeholder*. (حرف رمز)
Looking to find & evaluate the right research? Scopus has you covered.
Turn to Scopus, the world’s most connected research database

- 67.6+ million Content records
- 21,952 Journal titles
- 5,000 publishers
- 7.8+ million Conference papers, from over 90,000 global events
- 146,500+ Book titles

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Turn to Scopus for broad coverage across all subject areas.

Health Sciences
31%

Search across 13,700+ Health Science titles; 31% of Scopus publications.
Turn to Scopus for broad coverage across all subject areas.

Physical Sciences
28%

Search across 12,100+ Physical Science titles; 28% of Scopus publications.
Turn to Scopus for broad coverage across all subject areas

Social Sciences 25%

Search across 10,600+ Social Science titles, including Arts & Humanities.
Turn to Scopus for broad coverage across all subject areas.

Life Sciences

16%

Search across 6,700+ Life Science titles; 16% of Scopus publications.
Turn to Scopus, the world’s most connected research database

17% of Gold Open Access titles are active.

Out of 21,952 Journal titles...

Scopus is updated daily so you never miss the latest information.
Turn to Scopus, the world’s most connected research database

17% are active Gold Open Access titles

Scopus is updated daily so you never miss the latest information.
USING SCOPUS AS A RESEARCH TOOL

Solution Consultant (e-platform and content)
South East Asia
Elise Shen (e.shen@elsevier.com)
Agenda

- Scopus content coverage
- How can Scopus assist you with your research?
- What content expansion programs are ongoing?
What content does Scopus include?

53.3M records from 21,912 serial titles and 30,000 books
21.3M pre 1996 records | 32.0M post 1995 records

- Content from > 5,000 publishers
- "Articles in Press" from > 3,750 titles
- Titles from 105 different countries in all geographical regions
- 40 “local” languages covered
- More than 2,800 Gold Open Access journals indexed

Scopus is ideal compared to other products because it has the broadest coverage of global, curated, relevant research, with smart, simple tools to help track, analyze and visualize research.
## What content does Scopus include?

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Details</th>
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### Subject Breakdown:
- Physical Sciences: 6,600
- Health Sciences: 6,300
- Social Sciences: 6,350
- Life Sciences: 4,050
Agenda

- Scopus content coverage
- How can Scopus assist you with your research?
- What content expansion programs are ongoing?
1) What’s the best journal for my research?

2) Related interdisciplinary, global, research?

3) Who is citing my work?

4) What’s the trend - is this a growing or declining field?

5) Who else is working on this in my country or elsewhere in the world?

Scopus is designed to accelerate the literature research process.

69% agree that Scopus saves them time in the research process.
How can Scopus assist you with your research?

• Facilitates major tasks researchers have
  • Searching citations & indexes
  • Browsing & searching sources
  • Viewing & storing articles
  • Search History
  • Documents Download

• Stay up-to-date
  • Alerts
  • RSS
Searching Citations & Indexes

1. Document Search
2. Author Search
3. Affiliation Search
4. Browse Sources
5. Compare Journals
6. Add More Search Fields
Reviewing Search Results

1. Search Results
2. Refine Results (Limit or Exclude) Make selection to activate the button
3. Sorting Options
4. Search Alert (Save & RSS Feed)
5. Batch Download of PDFs Make selection to activate the button
6. Export Citations Information Make selection to activate the button
7. Display Article Pages (Abstracts & References)
Why change programs don't produce change.

Abstract

Faced with changing markets and tougher competition, more and more companies realize that to compete effectively they must transform how they function. But while senior managers understand the necessity of change, they often misunderstand what it takes to bring it about. They assume that corporate renewal is the product of company-wide change programs and that in order to transform employee behavior, they must alter a company's formal structure and systems. Both these assumptions are wrong, say these authors. Using examples drawn from their four-year study of organizational change at six large corporations, they argue that change programs are, in fact, the greatest obstacle to successful revitalization and that formal structures and systems are the last thing a company should change, not the first. The most successful change efforts begin at the periphery of a corporation, in a single plant or division. Such efforts are led by general managers, not the CEO or corporate staff people. And these general managers concentrate not on changing formal structures and systems but on creating ad hoc organizational arrangements to solve concrete business problems. This focuses energy for change on the work itself, not on abstractions such as "participation" or "culture." Once general managers understand the importance of this grass-roots approach to change, they don't have to wait for senior management to start a process of corporate renewal. The authors describe a six-step change process they call the "critical path."

Indexed keywords

EMTREE medical terms: administrative personnel, article, industry, management, motivation, organization, organization and management, problem solving, problem solving: role playing, United States

MedSH: Administrative Personnel; Industry; Institutional Management Teams; Motivation; Organizational Innovation; Planning Techniques; Problem Solving; Role; United States

Author Information


1. Author Information
2. Citation Information & Alert
3. Related Articles
4. Mendeley Readership Statistics
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<tr>
<td>Conjugated polymer-based organic solar cells</td>
<td>Günes, S., Neugebauer, H., Santotto, N.S.</td>
<td>2007</td>
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<td>The path forward for biofuels and biomaterials</td>
<td>Ragauskas, A.J., Williams, C.K., Davison, B.H., (...), Templ, R., Tschaplinok, T.</td>
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<td>Polymer solar cells with enhanced open-circuit voltage and efficiency</td>
<td>Chen, H.-Y., Hou, J., Zhang, S., (...), Wu, Y., Li, G.</td>
<td>2009</td>
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<td>Solar energy conversion by dye-sensitized photovoltaic cells</td>
<td>Gratzel, M.</td>
<td>2005</td>
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<td>Direct splitting of water under visible light irradiation with an oxide semiconductor photocatalyst</td>
<td>Zou, Z., Ye, J., Sayama, K., Arakawa, H.</td>
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<td>Powering the planet: Chemical challenges in solar energy utilization</td>
<td>Lewis, N.S., Nocera, D.G.</td>
<td>2006</td>
<td>Proceedings of the National Academy of Sciences of the United States of America</td>
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<td>Kamal, P.V.</td>
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Documents Download

Batch Download and Automatic Naming
Java Required
Citation Overviews

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**Author Name**
- Senthu, T. (107)
- Funakoshi, T. (66)
- Yone, A. (66)
- Dincer, I. (67)
- Kaygusuz, K. (61)

**Subject Area**
- Energy (20,001)
- Engineering (17,470)
- Environmental Science (6,276)
- Chemical Engineering (4,436)
- Computer Science (3,027)

**Document Type**
- Article (21,045)
- Conference Paper (16,646)
- Review (2,678)

**Documents Citation Overview & Documents h Index**

- **Conjugated polymer-based organic solar cells**
  - Gunes, S., Neugebauer, H., Sariciftci, N.S.
  - 2007 Chemical Reviews
  - 2745

- **Direct splitting of water under visible light irradiation with an oxide semiconductor photocatalyst**
  - Zou, Z., Ye, J., Saryama, K., Arakawa, H.
  - 2001 Nature
  - 1360

- **Powering the planet: Chemical challenges in solar energy utilization**
  - Lewis, N.S., Nocera, D.G.
  - 2008 Proceedings of the National Academy of Sciences of the United States of America
  - 1209

- **Meeting the clean energy demand: Nanostructure architectures for solar energy conversion**
  - Kamat, P.V.
  - 2007 Journal of Physical Chemistry C
  - 950
Documents h Index: 51

Overview Options (Sorting & Exclude Author Self Citation)

Documents Citation Overview

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<td>Democracy and the foreigner</td>
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<td>ES cell pluripotency and germ-layer formation require the SW...</td>
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<td>NOx emission trends for China, 1995 - 2004: The view from the...</td>
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<td>13</td>
<td>Comparison of carbon capture and storage with renewable ener...</td>
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<td>14</td>
<td>Effects of nutrients (in food) on the structure and function...</td>
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Browse Sources (by Subject or Alphabetical)

Search Sources

SJR, IPP & SNIP

175 sources found matching "energy".

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

SJR = SCimago Journal Rank is weighted by the prestige of a journal. Subject field, quality and reputation of the journal have a direct effect on the value of a citation. SJR also normalizes for differences in citation behavior between subject fields.

IPP = Impact per Publication (IPP) measures the ratio of citations per article published in the journal.

SNIP = Source Normalized Impact per Paper measures contextual citation impact by weighing citations based on the total number of citations in a subject field.
Find Prolific Authors
## Find Prolific Authors

<table>
<thead>
<tr>
<th>Author Name</th>
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<td>Wimanikit, V.</td>
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<td>2004</td>
<td>Nature</td>
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<td>Nsaak, A.</td>
<td>Update on avian influenza A (H5N1) virus infection in humans</td>
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<td>Cezentano, D.D.</td>
<td>Randomized, double-blind, placebo-controlled efficacy trial of a bivalent recombinant glycoprotein 120 HIV-1 vaccine among injection drug users in Bangkok, Thailand</td>
<td>2006</td>
<td>Journal of Infectious Diseases</td>
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<td>2005</td>
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<td>Sawangwiriyakul, P.</td>
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<td>Gibbons, R.V.</td>
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<td>2005</td>
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<td>273</td>
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</table>
Select journal to submit to for your research area

Journals which publish most papers in “epidemic” published by authors from Thailand.

Select the journals and compare their performance.
Compare Journals and View SJ R, IPP and SNIP Data

Compare journals: Search for and choose up to 10 journals to analyze and compare.

Table showing SJR values for various journals.

SCImago journal rank by year graph.
Compare Journals and View SJR, IPP and SNIP Data

Impact per Publication by year

Note: Scopus does not have complete citation information for articles published before 1996. Calculations last updated: 13 Jun 2014
Compare Journals and View SJR, IPP and SNIP Data

Source normalized impact per paper by year

Note: Scopus does not have complete citation information for articles published before 1996. Calculations last updated: 13 Jun 2014
Compare Journals and View SJR, IPP and SNIP Data

Source citations by year

- Exclude journal self citations

Note: Scopus does not have complete citation information for articles published before 1996. Calculations last updated: 02 Dec 2014
Compare Journals and View SJR, IPP and SNIP Data

Source documents by year

- Journal of the Medical Association of Thailand = Chotmaihet thangphaet
- Emerging Infectious Diseases
- AIDS
- American Journal of Tropical Medicine and Hygiene
- Southeast Asian Journal of Tropical Medicine and Public Health

Note: Scopus does not have complete citation information for articles published before 1996.
Calculations last updated: 02 Dec 2014
Compare Journals and View SJR, IPP and SNIP Data

Percent of published documents not cited by year

Note: Scopus does not have complete citation information for articles published before 1996.
Calculations last updated: 02 Dec 2014
Compare Journals and View SJR, IPP and SNIP Data

Percent of documents that are review articles by year

Note: Scopus does not have complete citation information for articles published before 1996. Calculations last updated: 02 Dec 2014
Author Search

Scopus

Document search | Author search | Affiliation search | Advanced search

Search history

Combine queries... e.g. #1 AND NOT #3.

Affiliation... e.g. University of Toronto...

Subject Areas
- Life Sciences
- Physical Sciences
- Health Sciences
- Social Sciences & Humanities

Show exact matches only
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Author Details

1. Visualize Author’s Research & Performance
2. Author’s h Index
3. Export all author’s publication (Mendeley & other Reference Manager)
4. Author’s Document Alert
5. Author’s Citation Alert
6. Add to ORCID
The Challenge: Scholarly Name Ambiguity

Many researchers that too closely resemble one another.

Researchers publish under name variations.

Dr. Smith  Dr. Smith  Dr. Smith

Dr. Smith  Dr. J. Smith  Dr. James Smith
Summary

Author profiling – Total number of publications and citations
• Understand a research trends
• Which journal to publish my paper
• Who can I collaborate with
• Fast Route to full-text articles
Agenda

- Scopus content coverage
- How can Scopus assist you with your research?
- What content expansion programs are ongoing?
Scopus article growth over years

Source: Scopus data 13 May 2014
Ratio of journals per Publisher in Scopus

Source: Scopus title list (May 2014)
A special project, designed to ensure Scopus customers have access to highly regarded conferences from specific respected / authoritative lists of conferences held worldwide.

Coverage years
- Backfill from 2005 – 2012 (8 years)

Number of conferences
- Around 1,000 new conference titles, 6,000 conference events, 400K conference papers and 5M references
- Serial and one-off conferences from authoritative, respected lists. Focus on engineering and engineering-related subject fields

Which conferences
- Project started in 2011
- Expected project end date: June 2014

Projects:
- No permission: 194
- Waiting for permission: 384
- Titles processed: 832
- In process: 143
Books expansion program

- Back to 2005 (2003 for A&H)
- 75,000 over three years; 10,000 each year thereafter
- Monographs, edited volumes, major reference works, graduate level textbooks

Coverage

- Years

Number of books

- 75,000 over three years; 10,000 each year thereafter

Books target in Scopus

Actual books in Scopus

Books title

Chapter title

All chapter titles and links

Author data

Abstract

Citation count

Metadata

References (247)

Cited references

Already in Scopus:

Pre-1996 cited references expansion program

**What?**

- **Coverage years**
  - Pre-1996, going back to 1970

- **Number of articles**
  - We estimate 8M+ articles will be (re-) processed to include cited references

- **Which Archives**
  - Archives from all major publishers that have digital archives available
  - All subject areas included

**Why?**

- Improve the completeness and coverage of back files in Scopus
- Enhance the relevancy and visibility of archival content in Scopus
- Measure the impact of pre-1996 for both individual assessment and (historical) trend analysis.
- Increase the accuracy of Scopus Author Profiles for older researchers and decision makers.

**When?**

- Development of required systems and processes has already started
- The first content with pre-1996 cited references will be visible in Q4 2014
- Completed by 2016 when >8M articles from all major publishers have been loaded