

**Elsevier Research Intelligence** 

Access to Excellent Research: Scopus – from research to bibliometrics

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**Empowering Knowledge** 



# Scopus supporting the research cycle



Empowering Knowledge

#### ELSEVIER

## Scopus is the Gold standard: more than 150 leading research organizations rely on Scopus data



## How Scopus and Scopus data support the researcher workflow



## Today we will focus on Scopus but it is important to remember that Scopus underpins other solutions



## SCOPUS DATABASE



# Scopus content coverage and selection



#### What content does Scopus include?

**58.2M** records from **22,245** serial titles and **98,060** books 21.6M pre 1996 records | 36.3M 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 4,240 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.

## Scopus covers different source types for a reason

#### JOURNALS

- Timely
- Peer-reviewed (formal research)

All subject fields, but typical fields with high ratio of journal publication: chemical, biological, health sciences etc.



#### CONFERENCES

- Preliminary research (can be a bit less formal)
- Newer ideas

Mainly of importance in Computer Science and Engineering-related subject fields

### BOOKS

• Thorough analysis of a specific topic

Mainly of importance in Social Sciences and the Arts & Humanities





Different source types are added to ensure that coverage, discoverability, profiles and impact measurement for research in all subject fields is accounted for in Scopus.

## Different source types to ensure coverage in all subject fields

|  | JOURNALS  | CONFERENCES  | BOOKS  |
|--|---|--|--|
| Physical<br>Sciences<br>7,443<br>Health<br>Sciences      | <ul> <li>21,362 peer-reviewed journals</li> <li>362 trade journals</li> <li>Full metadata, abstracts</li> </ul>   | <ul> <li>84K events</li> <li>7.0M records (12%)</li> <li>Conf. expansion (2005 – 2013)</li> <li>1.017 conferences</li> </ul> | <ul> <li>521 book series</li> <li>28K Volumes</li> <li>1.1M items</li> <li>98.060 stand-alone books</li> </ul> |
| Social<br>Sciences<br>8,086<br>Life<br>Sciences<br>4,492 | <ul> <li>and cited references (ref's post-1995 only)</li> <li>Pre-1996 cited ref's expansion 4M out of 12M</li> <li>Going back to 1823</li> <li>Funding data from acknowledgements</li> </ul> | 6,022 conf. events<br>410K conf. papers<br>5M citations<br>Mainly Engineering and<br>Physical Sciences                       | - 785K items<br>Books expansion:<br>120K books by 2015<br>- Focus on Social Sciences<br>and A&H                |

Different source types are added to ensure that coverage, discoverability, profiles and impact measurement for research in all subject fields is accounted for in Scopus.

Source: Scopus title list (June 2015)

### **Scopus article growth over years**





#### **Broad coverage does not mean poor standards**



- Titles are selected by the independent Content Selection & Advisory Board (CSAB)
- The CSAB is chosen for their expertise in specific subject areas; many have (journal) Editor experience

#### Focus on quality through content selection by the independent CSAB, because:

- Provide accurate and relevant search results for users
- No dilution of search results by irrelevant or low quality content
- Support that Scopus is recognized as authoritative
- Support confidence that Scopus "reflects the truth"













## **Transparent Scopus selection criteria for serial content**

<u>All</u> titles should meet <u>all</u> minimum criteria in order to be considered for Scopus review:

| Peer-reviewEnglishRegularabstractspublication | Roman script<br>references | Pub. ethics statement |
|---|----------------------------|-----------------------|
|---|----------------------------|-----------------------|

Eligible titles are reviewed by the Content Selection & Advisory Board according to a combination of 14 quantitative and qualitative selection criteria:

| Journal Policy   | Quality of Content   | Journal Standing   | Regularity                         | Online Availability  |
|--|--|--|------------------------------------|--|
| <ul> <li>Convincing editorial concept/policy</li> <li>Type of peer-review</li> <li>Diversity geographic distribution of editors</li> <li>Diversity geographic distribution of authors</li> </ul> | <ul> <li>Academic<br/>contribution to the<br/>field</li> <li>Clarity of abstracts</li> <li>Quality and<br/>conformity with stated<br/>aims &amp; scope</li> <li>Readability of<br/>articles</li> </ul> | <ul> <li>Citedness of journal articles in Scopus</li> <li>Editor standing</li> </ul> | • No delay in publication schedule | <ul> <li>Content available<br/>online</li> <li>English-language<br/>journal home page</li> <li>Quality of home<br/>page</li> </ul> |

**Continuous review process** using an online Scopus Title Evaluation Platform (STEP) Info: http://www.elsevier.com/online-tools/scopus/content-overview Questions: titlesuggestion@scopus.com

### Scopus title review results and resources

In total 4,593 **titles reviewed** (2011–2014) of which 2,080 (**31%**) **accepted** for Scopus

Collaborations for **local content selection** & advisory boards:



## **Curation matters: re-evaluation**

Our customers demand it. Our business depends on it



- Annual rolling initiative:
  - Identify and notify underperforming journals
  - One year to improve quality based on metrics & set benchmarks (output, usage, citations, self-citations)
  - If red flag remains, the journal will be reviewed by the CSAB with the possible consequence of **discontinuation** in Scopus
- **Incentive** for continuous journal performance
- Launch Q1 2015, re-evaluation to start Q1 2016

The re-evaluation process is essentially a rigorous housekeeping exercise designed to ensure that the journal content in Scopus meets the high standards we and our customers now demand.

#### **Curation matters**

## Our Customers demand it Our business depends on it



"We use your Scopus and Ei Compendex tools to measure and reward research activity. When we discovered that some of conferences that you cover didn't happen, we have to ask who is defrauding whom?"

The re-evaluation process is essentially a rigorous housekeeping exercise designed to ensure that the journal content in Scopus meets the high standards we and our customers now demand.

#### The "Scopus effect"

#### A biotechnology journal



Big increase in article output after debut in Scopus

Loss of international diversity

## Where is the peer-review (an Energy journal)?

"Aims and scope: ... is dedicated to detailed and comprehensive investigations, analyses and appropriate reviews of the interdisciplinary aspects of renewable, fossil, biomass, agricultural residues, municipal solid wastes, hydro, solar, nuclear, geothermal, wind **energy sources**, all energy conversion processes, hazardous emissions, environmental protection topics included experimental, analytical, industrial studies. Also included are suitable topics regarding energy education and education, the efficient energy management and use of air, water, and land resources."

| An algorithm to extend the lifetime for ad hoc networks  | GA-HMM gene identification model for abnormal emergency based on immunology                           |
|--|---|
| An evaluation index system on undergraduate education based on project-based theoretical theory      | Guanxi with government officials and organizational performance: the mediating role of lobbying       |
| Analysis of cultural connotation of bronze drinking vessels in Zhou Dynasty                          | Mechanical analysis of tennis racket and ball during impact based on finite element method            |
| Analysis of flow signal of Chinese vowels and consonants   | Music emotion cognitive system and retrieval mechanism  |
| Analysis of related factors in children with behavior problems                                       | Ontology similarity measuring and ontology mapping algorithm based on MEE criterion                   |
| Case investigation on rotavirus infection for lactose intolerance                                    | Outdoor space type and characteristic analysis of the kindergarten                                    |
| Clinical application of gastrointestinal perioperative surgery on gastrointestinal function recovery | Perspective of Zhangzhen to China increasing peasants' income   |
| Cultural dimension of musical iconology based on graph clustering                                    | Predicament faced by exotic culture in interior home space design application—Zhengzhou as an example |
| Design on digital library user modeling based on domain ontology                                     | Research on the long-term care emend for the elderly in China   |
| Discussion on network sports group becoming a new form of physical activity in the Internet age      | Strategic analysis of the problems in microblog operation in college                                  |
| Early intervention and evaluation of high-risk infants craniocerebral injury                         | Study on the patterns of Zhuang brocade   |
| Educational and psychological intervention in the students' positive emotions                        | Urban music culture and cultural Trade based on J2EE  |
| Evaluation of urban basic pension insurance based on AHP   | Urinary tract infection bacteria distribution and drug resistance analysis                            |
| Extracurricular sports lifestyle in university based on ELECTRE-II evaluation approach               | Study on the nursing care for kidney transplant patient with respiratory system infection             |

## **Re-evaluation of journals covered in Scopus**



### **Methodology: re-evaluation metrics and benchmarks**

| Metric                    | Benchmark | Explanation  |
|---------------------------|-----------|--|
| Self-citations            | 200%      | The journal has a self-citation rate two times higher, or more, when compared to peer journals in its subject field.       |
| Citations                 | 50%       | The journal received half the number of citations, when compared to peer journals in its subject field.                    |
| Impact Per<br>Publication | 50%       | The journal has an IPP score half or less than the average IPP score, when compared to peer journals in its subject field. |
| Article Output            | 50%       | The journal produced half, or less, the number of articles, when compared to peer journals in its subject field.           |
| Abstract Usage            | 50%       | The journal's abstract are used half as much, or less, when compared to peer journals in its subject field.                |
| Full Text Links           | 50%       | The journal's full text are used half as much, or less, when compared to peer journals in its subject field.               |

#### **Re-evaluation: metrics and benchmark**

| Metric                 | Benchmark | Explanation  |
|------------------------|-----------|--|
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| Full Text Links        | 50%       | The journal's full text are used half as much, or less, when compared to peer journals in its subject field.               |

<u>Important</u>: Journals are only up for Re-evaluation if the journal underperforms in **all 6 metrics**. If 1 improves, journal will be taken off the Re-evaluation list

## **Comparison with nearest peer**



Source: Web of Science Real Facts, Web of Science title list and Scopus' own data (April 2015)

## Scopus API to provide Scopus data as key citation information on the publisher and/or customer platform





## Journal and Article Level Metrics



#### More accuracy, transparency, more metrics

#### About SJR

SCImago Journal Rank is a prestige metric based on the idea that not all citations are the same.

Learn more

**SCI**MAG

#### About SNIP

Source Normalized Impact per Paper measures contextual citation impact by weighting citations based on the total number of citations in a subject field.

#### Learn more

#### About IPP

The Impact per Publication measures the ratio of citations per article published in the journal.

Learn more



#### Journal SJR ₹ 0.938 Multisensory research SJR **SNIP** Citations Documents % Not cited % Reviews Behaviour ✓ 0.740 Source normalized impact per paper by year a Nematology V 0.732 2.00 Journal of Cognition and ... 0.650 Amphibia - Reptilia V 0.590 1.75 African Diaspora ¥ 0.537 African and Asian Studies V 0.466 1.50 Insect Systematics and ... V 0.463 1.25 Archive for the Psycholo. × 0.448 Society and Animals 0.358 UN 1.00 × 0.347 Historical Materialism Dead Sea Discoveries 0.334 0.75 Journal of International. 0.333 0.50 O Middle East Law and Go ... V 0.326 Journal of Moral Philoso.. 0.323 0.25 Journal for the Study of t.. 0.317 0.31 0.317 0.31 0.31 0.31 0.31 Crustaceana 0.300 0.00 1999 2001 2002 2003 2004 2005 2006 2007 2010 2011 2012 2013 2000 2008 2009 Perspectives on Europe. V 0.294

Calculations last updated: 13 Jun 2014

---- Chart TTT Table

Insect Systematics and Evolution

African and Asian Studies

## Journal Metrics www.journalmetrics.com/

Note: Scopus does not have complete citation information for articles published before 1998 Calculations last updated: 13 Jun 2014

--- Iournal of Cognition and Culture

- Behaviour

#### **IPP: Impact per Publication**

All **20K** journals have a **Impact per Publication** (IPP) measuring the ratio of citations per article published in the journal

- Peer-reviewed papers (Article, Review and Conference Paper) only
- Three year citation window

# Citations in Year Y to papers published in Y-1 to Y-3

#### Papers published in Y-1 to Y-3



## **SNIP: Source-normalized impact per paper**

All >20K journals have a **Source-normalized impact per paper** (SNIP) measuring contextual citation impact by weighting citations per subject field

- Peer-reviewed papers only
- Three year citation window
- Field's frequency and immediacy of citation
- Database coverage
- Journal's scope and focus
- Measured relative to database median

Impact per Publication (IPP)

Citations potential in its subject field

| Journal                  | IIP  | Citation Potential | SNIP (IIP/Citation Potential) |
|--------------------------|------|--------------------|-------------------------------|
| Inventiones Mathematicae | 1.5  | 0.4                | 3.8                           |
| Molecular Cell           | 13.0 | 3.2                | 4.0                           |

## SJR: SCImago Journal Rank

All **20K** journals have a **SCImago Journal Rank** (SJR) a prestige metric based on the idea that not all citations are equal

Prestige transferred when a journal cites

- Citations are weighted depending on where they come from
- A journal's prestige is shared equally between its citations





High impact, lots of citations One citation = low value Low impact, few on citations One citation = high value

SJR normalizes for differences in citation behaviour between subject fields

#### Example

Use title list to find:

- ? the best Czech journals
- ? the highest SNIP and SJR

## Integration of article level metrics into Scopus

#### Spontaneous knotting of an agitated string (Article)

Raymer, D.M. 💟 , Smith, D.E. 💟 🛔

Department of Physics, University of California at San Diego, Mail Code 0379, 9500 Gilman Drive, San Diego, CA 92093, United States

#### Abstract

It is well known that a jostled **string** tends to become knotted; yet the factors governing the "**spontaneous**" formation of various knots are unclear. We perfect inside a box and found that complex knots often form within seconds. We used mathematical knot theory to analyze the knots. Above a critical **string** leng sharply with length but then saturated below 100%. This behavior differs from that of mathematical self-avoiding random walks, where P has been pro jamming of the **string** due to its stiffness result in lower probability, but P approaches 100% with long, flexible **strings**. We analyzed the knots by calculati of digital photos of the **string**. Remarkably, almost all were identified as prime knots: 120 different types, having minimum crossing numbers up to 11, were to seven crossings were observed. The relative probability of forming a knot decreased exponentially with minimum crossing number and Möbius energy, m on the observation that long, stiff **strings** tend to form a coiled structure when confined, we propose a simple model to describe the knot formation based model can qualitatively account for the observed distribution of knots and dependence on agitation time and **string** length. © 2007 by The National Academy

Author keywords

Jones polynomial; Knot energy; Knot theory; Random walk; Statistical physics



#### Mendeley readership

Statistics shows how many times Mendeley users have downloaded a specific article to their libraries.

**Altmetric** is a way to see all of the social or mainstream media mentions gathred for a particular paper as well as reader counts on popular reference managers

#### Else Cited by 36 documents

Untangling the Mechanics and Topology in the Frictional Response of Long Overhand Elastic Knots Jawed, M.K., Dieleman, P., Audoly, B. (2015) Physical Review Letters

Origin of metastable knots in single flexible chains Dai, L. , Renner, C.B. , Doyle, P.S. (2015) Physical Review Letters

Tangling of tethered swimmers: Interactions between two nematodes Backholm, M., Schulman, R.D., Ryu, W.S. (2014) Physical Review Letters

View all 36 citing documents

Inform me when this document is cited in Scopus:

下 Set citation alert \mid 🔝 Set citation feed

#### Related documents

| Effici<br>study<br>Manst<br>(2007) | Efficient knot group identification as a tool for<br>studying entanglements of polymers<br>Mansfield, M.L.<br>(2007) Journal of Chemical Physics       |                                       |  |  |  |  |  |  |  |
|------------------------------------|--|---------------------------------------|--|--|--|--|--|--|--|
| Knots<br>polye<br>Virnau<br>(2005) | Knots in globule and coil phases of a model<br>polyethylene<br>Virnau, P., Kantor, Y., Kardar, M.<br>(2005) Journal of the American Chemical Society   |                                       |  |  |  |  |  |  |  |
| Statis<br>appli<br>Orland<br>(2007 | Statistical topology of closed curves: Some<br>applications in polymer physics<br>Orlandini, E., Whittington, S.G.<br>(2007) Reviews of Modern Physics |                                       |  |  |  |  |  |  |  |
| View                               | all related  | d documents based on references       |  |  |  |  |  |  |  |
| Find                               | more rela  | ted documents in Scopus based on:     |  |  |  |  |  |  |  |
| <b>Q</b> A                         | uthors   | Keywords                              |  |  |  |  |  |  |  |
| _                                  |  |                                       |  |  |  |  |  |  |  |
| Metri                              | CS   | 0                                     |  |  |  |  |  |  |  |
| 99                                 | 36   | Citations                             |  |  |  |  |  |  |  |
| \$                                 | 0.65   | Field-Weighted Citation Impact        |  |  |  |  |  |  |  |
| м                                  | 136  | Mendeley Readers                      |  |  |  |  |  |  |  |
|                                    | 8  | Blog posts                            |  |  |  |  |  |  |  |
| y                                  | 1630   | Tweets                                |  |  |  |  |  |  |  |
|                                    | 11   | Mass Media stories                    |  |  |  |  |  |  |  |
|                                    | 88   | Mentions in 6 additional sources      |  |  |  |  |  |  |  |
|                                    |  | Select data provided by altmetric.com |  |  |  |  |  |  |  |
| Vi                                 | ew all me  | trics                                 |  |  |  |  |  |  |  |
| -                                  |  |                                       |  |  |  |  |  |  |  |

99TH PERCENTILE

#### Spontaneous knotting of an agitated string Back to article

Raymer D.M., Smith D.E.

(2007) Proceedings of the National Academy of Sciences of the United States of America, 104(42), pp. 16432-16437



accounts

Benchmark highlights 🔞

View all Social Activity

All Social Activity - 1713

Based on 1713 mentions from 5 sources

Compared to Multidisciplinary articles of same age

citeulike

4 Saves

94TH PERCENTILE

Benchmark highlights 🔞

Based on 140 readers from 2 sources Compared to Multidisciplinary articles of same age

compared to multidisciplinary articles of same

All Scholarly Activity - 140

View all Scholarly Activity

### Integration of article level metrics into Scopus



#### Benchmarking 2

Measures of activity relative to specific research domains, based on cited by in Scopus

Compared to Multidisciplinary articles of same age

All Citations

74TH PERCENTILE

### Integration of article level metrics into Scopus

| Overview 0 | Citations | Scholarly Activity<br>Mendeley, CiteULike, etc. | Scholarly Commentary<br>Blogs, Reviews, Wikipedia, etc. | Mass Media | Social Activity<br>Twitter, Facebook, etc. |  |
|------------|-----------|---|---|------------|--|--|
|------------|-----------|---|---|------------|--|--|

#### Scholarly Activity

#### 140 readers from 2 sources

Indirect measurement of activity by people using scholarly platforms such as Mendeley and CiteULike.





It had to happen eventually. My Twitter feed in recent times had become unbearable with the insufferably smug PacBio mafia (that's you Keith, Lex, Adam and David) crowing about

\* Data provided by altmetric.com



\* Data provided by altmetric.com



Google + \_ 1 post from 1 account

\* Data provided by altmetric.com

#### Benchmarking

Measures of activity relative to specific research domains, based on all sources of Social Activity



#### Social Activity tab includes:

- Percentile Benchmarks for Social Activity and underying data sources
- Twitter demographic map

#### Twitter demographics





-

\* Data provided by <u>altmetric.com</u>VIEK

Empowering Knowledge

## **Using Scopus**





## **Journal Analyzer – Compare Journals**

| Document search                      | Author search   Affiliation sea         | arch   Advanced search                 | Browse Sources | Compare journals |  |
|--------------------------------------|---|--|----------------|------------------|--|
| Search for                           | Eg., "heart attack" AND stress          | Article Title, Abstract, Keywords      | -              | ٩                |  |
| Add search field                     |   |  |                |                  |  |
|                                      |   |  |                |                  |  |
| Compare journals                     | Search for and choose up to 10 journals | to analyze and compare.                |                |                  |  |
| addiction<br>Show: • SJR • SNIP • IS | Jour                                    | nal Title  Limit to: All Subject areas |                | • Q              |  |

- Quick, easy access to an objective and transparent overview of the performance of your own and your competitors' journals over time
- Compare up to 10 sources on a variety of parameters (SNIP, SJR, Citations, Documents, Percentage Not-Cited, Percentage Review)
- Provide access to a transparent and objective overview of the journal landscape going back to 1996

### **Journal Analyzer**

#### 16 sources found About Compare journals calculations



Key take-away: Use the analyser to Benchmark and compare

### **Analyze results**

- A tool launched in 2012, providing helpful graphics and table displays to gain more insight into search results
- Measures quantity: # documents on 7 parameters

| Scopus             |                    |  |  | Steven Riddell 🕀   Logout Broug<br>Scc |                         |                    |               |
|--------------------|--------------------|--|--|--|-------------------------|--------------------|---------------|
| Search   Alerts    | s ⊨ My list ⊨ Seti | ings Live Cl   | hat   Help and Contact                             | Tutorials                              | Library catalogue       |                    |               |
| TITLE-ABS-KEY (    | dung beetles) 🛛 🦷  | Edit   🎴 Save   🐌 Set alert   💦 Set feed   |  |  |                         |                    |               |
| 1,432 docum        | nent results View  | v secondary documents   View 2 patent results   Search your library 🛄 Analyze search results   | >  |  |                         | Sort on: Date Cite | ed by Relevan |
| Search within re   | esults             | 🗋 👻 🖶 Export   🗒 Download   📶 View citation overview   9 View Cited by   More  |  |  |                         |                    | Show all a    |
| Refine<br>Limit to | Exclude            | Effects of forest fragmentation on dung and carrion beetle communities in central Amazon     1   | nia Klein, B.C.                                    |  | 1989 Ecology            |                    | 341           |
| Year               |                    | View at Publisher  |  |  |                         |                    |               |
| 0 2014             | (77)               | Extinction order and altered community structure rapidly disrupt ecosystem functioning   | Larsen, T.H., Williams, N                          | N.M., Kremen,                          | 2005 Ecology Letters    |                    | 200           |
| 2013               | (104)              | 2  | 0.   |  |                         |                    |               |
| 2012               | (96)               | Full Text View at Publisher  |  |  |                         |                    |               |
| 2011               | (97)               | Environmental control of horn length dimorphism in the beetle Onthophagus acuminatus   | Emlen, D.J.  |  | 1994 Proceedings of the | e Roval Society B: | 195           |
| 2010               | (95)               | 3 (Coleoptera: Scarabaeidae)   |  |  | Biological Science      | S                  |               |
| 2009               | (80)               |  |  |  |                         |                    |               |
| 2008               | (77)               | Full Text View at Publisher  |  |  |                         |                    |               |
| 2007               | (76)               | O Alternative reproductive tactics and male-dimorphism in the horned beetle Onthophagus  | Emlen, D.J.  |  | 1997 Behavioral Ecolog  | y and Sociobiology | 186           |
| 2006               | (60)               | 4 acuminatus (Coleoptera: Scarabaeidae)  |  |  |                         |                    |               |
| 2005               | (68)               | Full Text View at Publisher  |  |  |                         |                    |               |
| Author Name        |                    | Environmental reconstruction of a Roman period settlement site in Uitgeest (the<br>5 Netherlands) with special reference to corrophilous fungi | van Geel, B., Buurman,<br>Brinkkemper, O. ( . ) va | J.,<br>In Reenen                       | 2003 Journal of Archaed | ological Science   | 171           |
| Scholtz, C.H.      | (79)               |  | G., Hakbijl, T.                                    | in reconcil,                           |                         |                    |               |
| Lobo, J.M.         | (53)               | View at Publisher  |  |  |                         |                    |               |
| Simmons, L.W.      | (47)               | Ecological functions and ecosystem services provided by Scarabaeinae dung beetles  | Nichols, E., Spector, S.,                          | Louzada, J.,                           | 2008 Biological Conserv | /ation             | 159           |
| Lumaret, J.P.      | (42)               | 6  | (), Amezquita, S., Favi                            | la, M.E.                               | J                       |                    |               |

Key take-away: Use Scopus to identify new and interesting areas of research

### **Analyze results**

7 parameters to choose from: Year, Source title, Author name, Affiliation name, Country, Document type and Subject area



Key take-away: Analyse search results to provide high level detail

#### **Scopus Author Profile Page – reviewers or potential authors**



Key take-away: Use author searches to find reviewers and authors

## **Author Evaluator - Author/Review deep dive**



**Key take-away**: Use the Author Evaluator to gain the best insight into a potential reviewer or author

#### **Citation Overview – Authors**



## Scopus Author Profiles – algorithmic creation with manual refinement

## **Scopus**



Create the most accurate profiles with the least effort

#### ELSEVIER

## ORCID has been gaining users – and integrated in Elsevier systems!

| Scopus Feedba                              | ack                 |                         |             |  |                |                 |                            |   |
|--|---------------------|-------------------------|-------------|--|----------------|-----------------|----------------------------|---|
| 1   Start                                  | 21                  | Select preferred name   |             | 3 Review documents                             | 4IRe           | view profile    |                            | 5   Submit changes  |
| Request author<br>You have requested to co | or detai            | for the following au    | ns<br>thor: |  |                |                 |                            |   |
|  | ORC                 | CID Statis              | stics       | ;  |                |                 |                            |   |
|  | Live C              | ORCID iDs               |             |  |                | I,652,          | 055                        |   |
|  | ORCI                | D iDs with a            | t lea       | st one work                                    |                | 288,            | 846                        | )   |
|  | Work<br>(publicatio | ons, data sets, patents | s and oth   | ner research outputs)                          |                | 9,030,          | 297                        |   |
|  | Uniqu               | ie DOIs                 |             |  |                | 4,365,          | 6   5                      |   |
| Document search                            | hor search          | Affiliation search      | n ∣ Adv     | vanced search                                  | Browse Sources | Compare journal | s _                        |   |
| Author Last Name<br>Affiliation e          | e.g. University     | e.g. Smith Aut          | hor Initi   | als or First Name<br>) Show exact matches only | e.g. J.L.      | <u>م</u>        | sł<br>sł<br>A<br>m<br>at   | o cetermine which author names<br>hould be grouped together under<br>ngle identifier number, the Scop<br>uthor Identifier uses an algorithm<br>latches author names based on<br>ffiliation, address, subject area, s<br>le, dates of publication, citations |
| ORCID ID e.g. 0000-00                      | 02-1108-3360        | ٩                       |             |  |                |                 | to<br>di<br>to<br>di<br>di | p-authors. Documents with insuf<br>ata may not be matched, this can<br>o more than one entry in the resu<br>or the same author. By default, o<br>etails pages matched to more th<br>ocument in Scopus are shown ir<br>arch results. About Scopus Au         |
| Subject Areas                              |                     |                         | Phy         | sical Sciences                                 |                |                 | — Id                       | lentifier   |

#### **Scopus affiliation profile**

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