Research Metrics Can Be Used to…

- Analyze the strengths of research at the institution
- Determine where research is a good potential investment
- Demonstrate ROI (Return On Investment) of research money
- Identify rising stars amongst the early career researchers
- Tell a better narrative about everything that is happening with research

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Different Researchers Have Different Needs for Metrics

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## Diverse Needs for Metrics

<table>
<thead>
<tr>
<th>Metric theme</th>
<th>Metric sub-theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Funding</td>
<td>Awards</td>
</tr>
<tr>
<td>B. Outputs</td>
<td>Productivity of research outputs</td>
</tr>
<tr>
<td></td>
<td>Visibility of communication channels</td>
</tr>
<tr>
<td>C. Research Impact</td>
<td>Research influence</td>
</tr>
<tr>
<td></td>
<td>Knowledge transfer</td>
</tr>
<tr>
<td>D. Engagement</td>
<td>Academic network</td>
</tr>
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<td>Non-academic network</td>
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<tr>
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# Diverse Needs for Metrics…and Diverse Entities

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Outputs
e.g. article, research data, blog, monograph

Custom set of outputs
e.g. funders’ output, articles I’ve reviewed

Reseacher or group

Institution or group

Subject Area

Serial
e.g. journal, proceedings

Portfolio
e.g. publisher’s title list

Country or group

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Examples of Metrics

**Researcher Level**
- Document Count
- *h*-Index

**Article Level**
- Citation Count
- Citations per paper
- Field-Weighted Citation Impact (FWCI)
- Outputs in top quartile
- Citations in policy and medical guidelines
- Usage
- Captures, e.g. bookmarking
- Mentions
- Social media

**Journal Level**
- CiteScore
- Journal Impact Factor
- Scimago Journal Rank (SJR)
- Source Normalized Impact Per Paper (SNIP)

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Two Golden Rules for using research metrics

When used correctly, research metrics together with qualitative input give a balanced, multi-dimensional view for decision-making.

Always use both qualitative and quantitative input into your decisions

Always use more than one research metric as the quantitative input

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Where do these numbers come from?
Lots of sources

Publisher indexed in Scopus

- 10% Elsevier
- 8% Springer
- 5% Wiley-Blackwell
- 5% Taylor & Francis
- 2% Sage
- Other publishers
  - Wolters Kluwer
  - IEEE
  - Oxford University Press
  - INDERSCIENCE publishers
  - BENTHAM SCIENCE
  - Cambridge UNIVERSITY PRESS
  - Emerald
  - macmillan Publishers

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Extracting entities

Unstructured Data
Extracting entities

Unstructured Data

Entity typing

Entity disambiguation

Establishing relations
Extracting entities

Unstructured Data

Entity typing

Entity disambiguation

Establishing relations

Physics

Medicine
Improved by user feedback

Author feedback wizard

Use the Scopus Author Feedback Wizard to collect all your Scopus records in one unique author profile. To be as comprehensive as possible, please provide all the name variants under which you have published. Once you have submitted the author feedback form, the team will process your request within 4 weeks.

If you are unable to find a publication, if there is a problem with the citation count or you have additional feedback, please provide details.

Claim your awarded grant

We found this grant which was probably granted to you:

**Performance of inline separation technology in unlocking restricted/shut down wet gas wells**

Vissers A, Van Asperen V, Akdim R, Boudi A

Funding organization: National institute of Health • Amount: Not specified • Start date: 3rd of April

× Reject this suggestion ▶ Claim this award

---

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Metrics in Profiles: Researchers

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Metrics in Profiles: Researchers

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Metrics in Profiles: Institutions

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Metrics in Profiles: Institutions

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### Metrics in Profiles: Journals

**Journal of Biomedical Science**
- **Open Access**: Yes
- Scopus coverage years: from 1993 to Present
- Library subscription: from January 2009 to December 2009
- Publisher: BioMed Central
- ISSN: 1021-7770  E-ISSN: 1423-0127
- Subject area: Medicine: Biochemistry (medical)

**CiteScore**
- **CiteScore 2015**: 3.07
- SJR 2015: 1.632
- SNIP 2015: 1.560

**CiteScore rank & trend**
- **2015**
- In category: Biochemistry (medical)

**CiteScore trend**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Source title</th>
<th>CiteScore 2015</th>
<th>Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Biotechnology</td>
<td>3.69</td>
<td>99th percentile</td>
</tr>
<tr>
<td>#2</td>
<td>Hormones and Cancer</td>
<td>3.58</td>
<td>94th percentile</td>
</tr>
</tbody>
</table>

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Slide created by Holly J. Falk-Krzesinski and Andrea Michalek as part of the Metrics Across the Research Lifecycle deck. Used with permission.
Collaboration by Vrije Universiteit

Netherlands | More details on this institution

View data sources 2013 to 2015 | Computer Science

Current collaboration Potential collaboration

Institutions collaborating with Vrije Universiteit

Worldwide | All sectors | Filter for more (regional) detail or filter by field at the top of the page

423 collaborating Institutions 621 co-authored publications

Europe 261
Middle East 6
Asia Pacific 55
North America 81
South America 11
Africa 7

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