Service and Research at the Information Retrieval Service of the CPT Section (IVS-CPT)

Robin Haunschild
Main services

- Bibliometric analyses (e.g., reports about persons or MPIs)
- Special literature search (e.g., exhaustive publication set regarding a topic or a compound)
- Patent search (e.g., prior art or FTO searches)
- ...

Main databases

- Web of Science
- Scopus
- STN (CAS, Inspec, Derwent, ...)
- Microsoft Academic Graph (until December 2021)
- ...

Service at IVS-CPT
Main research activities

- Scientometrics, bibliometrics (e.g., analysis of research fields and testing/validating or proposing new indicators and methods)
- Chemical bibliometrics (e.g., counting chemical compounds or element occurrences instead of citations)
- Altmetrics (e.g., analysis of data from Twitter or Mendeley)
- ...

Main databases

- Web of Science
- Scopus
- STN (CAS, Inspec, Derwent, ...)
- Microsoft Academic Graph (until December 2021)
- Dimensions
- Altmetric.com
- ...

Service and Research at the IVS-CPT
Robin Haunschild
IVS-CPT cell until 2020

Service

Nature Index

Research

Mendeley reader counts

Twitter counts

Citation analysis

Paper downloads

Patent search

Publication analysis

Literature search

semi-permeable membrane
IVS-CPT cell since 2021

Service

Research

Nature Index

Mendeley reader analysis

Twitter counts

Citation analysis

Paper downloads

Patent search

Publication analysis

Literature search

semipermeable membrane
News from the Chemical Abstracts Service, CAS

Ionic Affinity Program

- Started in January 2021 with MPG as a member.
- Increased access to CAS data beyond SciFinder or STN. For example: Bayer was able to train neural networks using CAS data for finding most promising templates for specific applications.
- Up to 40 hours of assistance by research and IP specialists at CAS per twelve-month-period via the Ionic Affinity Program.

SciFinder vs. SciFinder\textsuperscript{n}

- Free access to SciFinder\textsuperscript{n} has been closed since July 1\textsuperscript{st}.
- Currently, the MPDL does not plan to switch to SciFinder\textsuperscript{n}. This might change if enough researchers present a testimony in favor of SciFinder\textsuperscript{n}.
There is a new large database in town

SciLentific LITerature (MDPI)

Scilit aims to be a comprehensive and free database for scientists using crawlers for collecting data and indexing scientific material.

https://www.scilit.net
Example of an author search on Scilit

Service and Research at the IVS-CPT
Robin Haunschild
Do altmetrics correlate with the quality of papers? A large-scale empirical study based on F1000Prime data

Lutz Bornmann, Robin Haunschild
Published: May 23, 2018 • https://doi.org/10.1371/journal.pone.0197133

Sentiments of citations from https://scite.ai/ via browser extension

- 93 Number of citing papers
- 6 Number of supporting statements
- 72 Number of mentioning statements
- 0 Number of contrasting statements
Release notes and plan:
https://clarivate.com/webofsciencegroup/release-notes/wos
Author search in the new WoS

Discover multidisciplinary content from the world’s most trusted global citation database.

Search for an author to see their author record. An author record is a set of Web of Science Core Collection documents likely authored by the same person. You can claim and verify your author record from your author record page.

Name Search

Last Name: haunschild
First Name and Middle Initial(s): robin

+ Add name variant

X Clear  Search
Author search in the new WoS

Web of Science™ Search Marked List History Alerts

3 Author Records from the Web of Science Core Collection for:

Search: haunschild, robin

Refine results

Author name
- Haunschild, Robin
- Haunschild, R.

Organizations
- Max Planck Society
- Karlsruhe Institute of Technology
- Philips University Marburg
- Rice University

Subject Categories
- Computer Science
- Information Science & Library Science
- Meteorology & Atmospheric Sciences
- Physics
- Science & Technology - Other Topics

See all

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
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<td>1 Document</td>
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Author search in the new WoS

Haunschild, Robin  This is an algorithmically generated author record
Informat Serv CPT
STUTTGART, GERMANY

About

Published names
Haunschild, Robin Haunschild, R.

Organizations
2015-2021 Max Planck Society
2012-2015 Karlsruhe Institute of Technology
2009-2013 Rice University
2008-2009 Philipps University Marburg

Web of Science ResearcherID: A-9925-2010

Author Metrics

Author Impact Beamplot Summary

Author's publication percentile range
Median citation percentile

Citation Network

100 Publications from the Web of Science Core Collection

Service and Research at the IVS-CPT
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Beamplots in the new WoS

Zoom into a part of 2016:

- 2 publications in the 95th percentile in 2016:
  - INFORMATION SCIENCE & LIBRARY SCIENCE
    - "Normalization of Mendeley reader counts for impact assessment" with 34 citations
  - INFORMATION SCIENCE & LIBRARY SCIENCE
    - "Policy documents as sources for measuring societal impact: how often is climate change research mentioned in policy-related documents?" with 35 citations

Citation counts are from Web of Science Core Collection; citation percentile data are from InCites.

Service and Research at the IVS-CPT

Robin Haunschild
Beamplots were proposed by IVS-CPT and GV

Web of Science Author Impact Beamplots

You can access beamplots from an Author Record. Lutz Bornmann and Werner Marx of the Max Planck Society first introduced and developed the use of beamplots for scientometric data in 2014 (Bornmann & Marx 2014a, 2014b; also, Bornmann & Haunschild, 2018, Haunschild et al, 2019). The Institute for Scientific Information (ISI) has promoted beamplots as an alternative to the h-index in Profiles not metrics (2019). The following are benefits of beamplots:

- Contextualizes a researcher’s articles to make them suitable for comparison
- You can see performance change over the course of a researcher’s career
- Evaluators can see performance change over the course of a career
- Discourages reliance on a single-point metric that lacks context and nuance

Important: In Publons, beamplots are only visible on a researcher’s private dashboard.

Author Impact Beampot Summary

The Author Impact Beampot Summary displays three points:

- Minimum publication percentile
- Overall median publication percentile (indicated by a green circle)
- Maximum publication percentile

The maximum and minimum percentiles are connected by a beam, showing the percentile range. Click View Full Beampot to open the full beampot.

From:
http://webofscience.help.clarivate.com/Content/author-record.html
See also: https://discover.clarivate.com/beamplots-whitepaper
Profiles, not metrics

An alternative approach proposed by Lutz Bornmann and Robin Haunschild, Max Planck Institute (Bornmann and Haunschild, 2018), puts a researcher’s articles into a context suitable for comparison. Each paper’s citation count is ‘normalized’ by the average for journals in their same category and publication year, and that value is converted to a percentile. This provides a better measure of central tendency than an average because citation distributions are so skewed. A percentile of 90 means that a paper is among the 10% most cited and the other 90% have achieved less citation impact. The median score is 50: the average impact among publications ranged within a common scale between 0 and 100.

The beam-plot can be used for a fair and meaningful evaluation. It quickly conveys information that the h-index never suggested. This researcher’s average percentile is significantly better than 50, the central impact in the fields where they published. Their median annual impact was below that benchmark in early years but can be seen to move above the average over time.


https://clarivate.com/webofsciencegroup/campaigns/profiles-not-metrics

Figure 2. A beam-plot of the data in Figure 1. Each article is compared to its own reference set but all use a common 0-100 percentile scale. The ranges of each year’s article percentiles are shown (grey marks, across the beam) with their annual median (purple mark, a pivot). The benchmark line is the researcher’s overall average: the 59th percentile.
The Excellence Mapping V2

https://www.excellencemapping.net

The Excellence Mapping V2

https://www.excellencemapping.net

Take-home messages

- IVS-CPT offers a broad range of services and performs research with the aim of improving services.
- MPG is member of the Ionic Affinity Program by CAS.
- Access to SciFinder has been discontinued but access to SciFinder continues.
- Scilit: A new large scientific database is available.
- Citation sentiments are available from https://scite.ai/.
- The new WoS author profiles contain beamplots that were proposed by IVS-CPT and GV.
- There is a new release of the Excellence Mapping with face-lift and highly bookmarked papers.