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# Measuring Research Output: Connecting to Faculty through Citation Metrics

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# Measuring Research Output

## Connecting to Faculty through Citation Metrics

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### Journal Tools

#### Journal Citation Reports

#### Cabell's Directory

### Author Tools

#### Web of Science



#### SCOPUS

### Metric Definitions

- Journal Impact Factor** the impact factor of a journal is the number of citations to articles in that journal (in Web of Science) in previous two years, divided by number of original research articles and reviews published by that journal in the previous two years
- Immediacy Index** average number of times an article is cited in the year it is published
- Journal Cited Half-Life** the median age of the articles that were cited in the JCR year
- Eigenfactor Score** calculated by eigenfactor.org, this measure differs from the Journal Impact Factor by taking into account the influence of the journal of the citing article
- Article Influence Score** measures the average influence of a journal's articles over the first five years after publication
- H-Index** measures both the productivity and impact of the published work of a scientist or scholar (a scientist has index h if h of his/her  $N_p$  papers have at least h citations each, and the other ( $N_p - h$ ) papers have no more than h citations each)
- altmetrics** the creation and study of new metrics based on the Social Web for analyzing, and informing scholarship

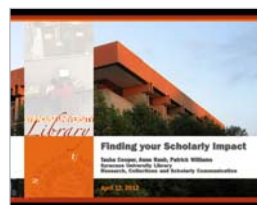
### Strengths

- quantitative information about output
- when used together, tools give a broad picture of the impact of journal publishing activity
- widely used within academic departments to inform decisions of promotion and tenure

### Weaknesses

- two most popular tools only measure the work that they index
- traditional tools don't capture grey literature and other informal scholarly communication
- coverage does not always include lifespan of author's work due to date coverage of tools
- developed to measure scientific scholarly publishing activity but now being applied to other disciplines where measures may not fit

### Making Connections



New Faculty



Women in Science and Engineering



Research Profiles



Institutional Repository

### altmetrics

<http://altmetrics.org/manifesto>

#### Total Impact



#### Reader Meter



### Google Citations Profile

<http://scholar.google.com/citations>



### Citation Metrics Guide

<http://researchguides.library.syr.edu/citationmetrics>

