How to Calculate an H-Index

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H-Index - What Is It?

- Metric of scholarly impact based on productivity (number of publications) and impact factor (times cited.)

- Author-Level Metric based on the quantity and quality of an author’s works.

- Commonly calculated on the single-author level.
H-Index - What Is It?

- H-index = $H$ articles/publications were cited at least $H$ times.
H-Index: Advantages

- Minimizes influence of the “one hit wonder” or highly cited article.
- Minimizes influence of numerous or high volume of publications.
- Avoids the pitfall of basing score on total number of citations alone or total number of publications alone. Puts into a single numerical score the quality and quantity of an author’s output.
H-Index: Limitations & Criticisms

- Does not account for typical number of citations in different fields.
- Does not consider author’s placement in authors’ list.
- In certain circumstances, it can be manipulated or “gamed” by self-citations.
- Limited to traditional publishing venues: journals, proceedings, and some books.
- Considered a slow metric.
H-Index : Demonstration

- Web of Science
- SCOPUS
- Google Scholar