

# Journal Impact Factor, QUARTILES OF SCIENTIFIC JOURNALS (Q1, Q2, Q3, Q4)

Research Paper Publication

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## Overview

- Scopus and Web of Science
- Impact factor (IF) of a journal
- Quartile (Q) Q1, Q2, Q3, Q4



## Scopus and Web of Science

- **Scopus** and **Web of Science** are two of the most widely used **databases in academic research**.

- Both provide access to journals, articles, and other scholarly literature.

The impact of publishing articles indexed in Scopus and Web of Science is significant in today's highly competitive research environments.

### Web of Science (WoS)

- The Web of Science (WoS) is a selective citation index of scientific and scholarly publishing covering journals, proceedings and books.
- It is a platform consisting of several literature search databases designed to support scientific and scholarly research.
- It is called as Science Citation Index (SCI).
- Visit the following site to check the details of the journal

<https://wosjournal.com/>



## Scopus

- The Scopus database contains **citations** and abstracts of **peer-reviewed** publications worldwide.
- Elsevier launched it in 2004.
- Scopus offers a **more extensive** list of modern sources.
- Visit the following site to check the details of of the journal <https://www.scopus.com>



## Impact factor (IF) of a journal

- **Impact Factor** is a measure of the **number of times an average citations** to an article in a journal during a year.
- The higher the number of citations for articles are having higher impact factor.
- Impact factor is usually calculated after completing the **minimum of 3 years** of publication.
- The IF applies **only to journals**, not to **individual articles**.
- In a given year, the IF of a journal is the average number of citations received per article published in that journal during the **2 preceding years**.  
[?]
- Impact factor is applicable for Science Citation Index Expanded (SCIE) and Social Sciences Citation Index (SSCI) journals.



## Calculation of a Impact Factor of a journal

2024 Impact Factor of a journal is expressed as:

$$2024 \text{ ImpactFactor} = \frac{A}{B}$$

- A = the number of times articles published in 2022 and 2023 were cited by indexed journals during 2024.
- B = the total number of "citable articles" published in 2022 and 2023.

### Example

citation in 2024 to articles published in 2023=130	No of articles published in 2023=110
citation in 2024 to articles published in 2022=140	No of articles published in 2022=100
Total 130+140=270	110+100=210

$$2024 \text{ ImpactFactor} = \frac{A}{B} = \frac{270}{210} = 1.285$$



- Visit the following site to check the details of impact factor of a journal  
<https://www.scijournal.org/>



## Quartile (Q) Q1, Q2, Q3, Q4

- Quartile (Q) is one of the **quality indicators** for the academic research **journals** based on citation metrics.
- It is used by the **Scopus and Web of Science** databases.
- Ranking by quartile is carried out with the determination of **four categories: Q1, Q2, Q3, Q4**.
- The classification of journals by quartile (Q) is based on the impact factor.
- **Q1**: The top 25% of any journal in a particular field.
- **Q2** The next 25-50% of the journals in a particular field.
- **Q3** The next set of 50-75% of the journals in a particular field.
- **Q4** The last set of 75-100% of the journals in a particular field.
- Visit the following link to check the Quartile of the journal  
<https://www.scimagojr.com/>





# References



[https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4150161/.](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4150161/)

