

Tutorial to determine the normalized impact factor of a journal, used at FSc in the evaluation of publications

This Normalized Impact Factor (NIF) cannot be found directly by clicking somewhere on the journal's website or Web of Science (WoS), it must be determined using the procedure below.

1) Finding the IF of a record (article) - see [Tutorial to find current or past impact factor of a journal, determination of quartile \(decile\) of a journal within category.](#)

Example: Finding the IF of journal Langmuir, $IF_{2021} = 4.331$.

2021 JOURNAL IMPACT FACTOR

4.331

[View calculation](#)

2) Finding in which scientific categories the journal is classified and the median IF of each of these categories.

a) Search for the journal at the [Journal Citation Reports](#)¹ webpage. A page will appear where you can see what categories the journal is included in – commonly 1-3.

← → ↻ 🔒 🔍 https://jcr.darivate.com/jcr-jp/journal-profile 80% ☆ 🔍 Search

Clarivate

Journal Citation Reports™ Journals Categories Publishers Countries/Regions

Home > Journal profile

JCR YEAR
2021

LANGMUIR

ISSN
0743-7463

EISSN
N/A

JCR ABBREVIATION
LANGMUIR

ISO ABBREVIATION
Langmuir

Journal information

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
CHEMISTRY, MULTIDISCIPLINARY - SCIE
MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE
CHEMISTRY, PHYSICAL - SCIE

LANGUAGES REGION

b) Clicking directly on the category name takes you to a list of journals in the category, where you would have to laboriously search for the median as the IF of a journal in the middle of the list - impractical.

Instead, switch to the Categories tab at the top of the page and select the category name.

Note: It is a two-step process, e.g.:

CHEMISTRY, PHYSICAL - SCIE

is found via **Chemistry**,

CHEMISTRY, MULTIDISCIPLINARY - SCIE

MATERIALS SCIENCE, MULTIDISCIPLINARY – SCIE

is found via **Multidisciplinary**.

Chemistry

Covers a broad range of chemical sciences, including environmental chemistry, chemical engineering, food chemistry, medicinal chemistry, geochemistry, and energy.

NUMBER OF CATEGORIES: **21** NUMBER OF JOURNALS: 2,367 NUMBER OF CITABLE ITEMS: 697,239

- BIOCHEMICAL RESEARCH METHODS
- BIOCHEMISTRY & MOLECULAR BIOLOGY
- CHEMISTRY, ANALYTICAL
- CHEMISTRY, APPLIED
- CHEMISTRY, INORGANIC & NUCLEAR
- CHEMISTRY, MEDICINAL
- CHEMISTRY, ORGANIC
- CHEMISTRY, PHYSICAL**
- ELECTROCHEMISTRY
- ENERGY & FUELS

A click on the category name will directly provide the searched median IF of the category. Only the SCIE entries are relevant.

1 category
See all 21 Groups

Journal name/abbreviation, ISSN/eISSN, category, publisher, country/region

Export

Customize

CHEMISTRY, PHYSICAL

Category	Group	Edition	# of journals	Citable Items	Total Citations	Median impact factor
CHEMISTRY, PHYSICAL	Chemistry; Physics	SCIE	163	98,071	5,473,441	3.841
CHEMISTRY, PHYSICAL	Chemistry; Physics	ESCI	9	463	3,014	N/A

c) By searching for the median in all categories of interest, you will find the median values, e.g.

3.841 CHEMISTRY, MULTIDISCIPLINARY – SCIE

3.361 MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE

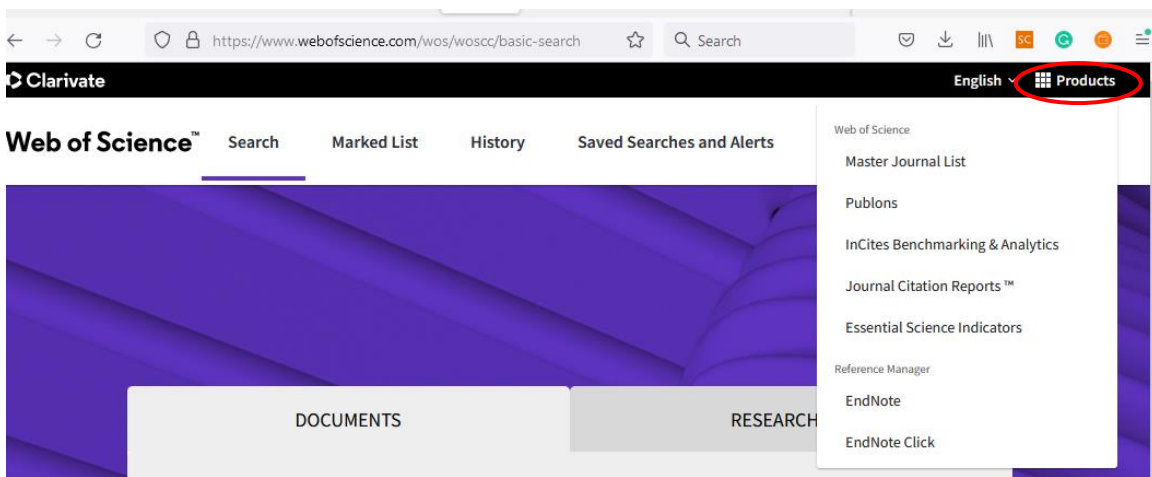
3.786 CHEMISTRY, PHYSICAL - SCIE

For the purpose of determining NIF, the lowest of these medians is used (it would be fairer to use the median of the observed medians, not utilized), so here $NIF = 4.331/3.361 = 1.289$.

This is the value used to select the top 1-25% of faculty publications by NIF and which is used in the distribution of RIV funds to departments².

Notes:

- 1) This page can also be accessed from [WoS](#) by clicking on the icon with 3×3 Products squares in the upper right corner of the page:



- 2) For faculty purposes, the median of all relevant categories is tracked by OBD (publication database) administrator L. Bulánová and assigned by the journal to each record.

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