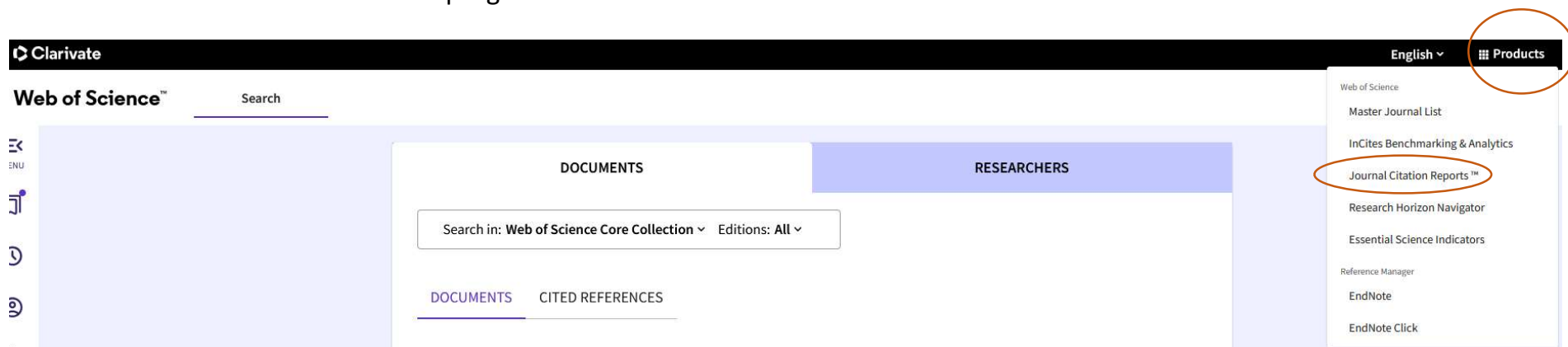


How to find and calculate the IF/AIF ratio for journals in NTMA research fields

- ✚ Create a personal account in the Web of Science database (WoS DB). Once logged in, select the **Journal Citation Reports (JCR)** tool from the **Products** list in the top-right corner.



- ✚ For example, let's find research categories for the *Journal of Materials Chemistry A* (ISSN 2050-7488) and calculate their average AIF.

✚ In the *JCR* menu bar or in the window below, select the **Journals** tab and search for the journal:

Clarivate

Journal Citation Reports[®] Journals Categories Publishers Countries/Regions Compare My favorites

The world's leading journals and publisher-neutral data

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

Already have a manuscript?
Find relevant, reputable journals for potential publication of your research using Manuscript matcher. Match my manuscript

See full listings and refine your search by

Journals Categories Publishers Countries/Regions

✚ The window that opens contains a lot of information about the journal, but for the following steps, you only need to note the journal's three research categories and its latest (2024) **IF (Journal Impact Factor) – 9.5**:

- Energy & fuels;
- Physical chemistry;
- Multidisciplinary materials science

JCR Year
2024

Journal of Materials Chemistry A

ISSN

2050-7488

EISSN

2050-7496

JCR ABBREVIATION

J MATER CHEM A

ISO ABBREVIATION

J. Mater. Chem. A

Journal information

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

ENERGY & FUELS

CHEMISTRY, PHYSICAL

MATERIALS SCIENCE, MULTIDISCIPLINARY

LANGUAGES

English

Publisher information

PUBLISHER

ROYAL SOC CHEMISTRY

Journal's performance

Journal Impact Factor ⓘ

The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection. It should be used with careful attention to the many factors that influence citation rates, such as the volume of publication and citations by expert opinion and informed peer review. In the case of academic evaluation for tenure, it is inappropriate to use a journal-level metric as a proxy measure for individual researchers, institutions, or articles. [Learn more](#)

2024 JOURNAL IMPACT FACTOR

9.5

[View calculation](#)

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

9.0

[View calculation](#)

Journal Impact Factor contributing items

[Citable items \(4,288\)](#)

- ✚ Now let's find the *AIF (Aggregate impact factor)* metrics for these research categories.
- ✚ At the top of the journal window, select the **Categories** tab:

The screenshot shows the 'Journal Citation Reports' website interface. At the top, there are navigation tabs: 'Journals', 'Categories' (circled in orange), 'Publishers', and 'Countries/Regions'. Below the navigation bar, the breadcrumb 'Home > Journal profile' is visible. A dropdown menu for 'JCR Year' is set to '2024'. The main title of the journal is 'Journal of Materials Chemistry A'. To the left of the title, the ISSN is listed as '2050-7488' and the EISSN as '2050-7496'. On the right side, there is a 'Journal information' box containing the following details: EDITION: Science Citation Index Expanded (SCIE); CATEGORY: ENERGY & FUELS, CHEMISTRY, PHYSICAL, MATERIALS SCIENCE, MULTIDISCIPLINARY.

- ✚ In the list of research categories that appears, select **Chemistry** and check the first research category category for the *Journal of Materials Chemistry A*, **Energy & fuels**:

Categories by Group ⓘ

[See all 254 Categories](#)

 Agricultural Sciences

NUMBER OF CATEGORIES

7

 Arts & Humanities, Interdisciplinary

NUMBER OF CATEGORIES

8

 Biology & Biochemistry

NUMBER OF CATEGORIES

34

 Chemistry

NUMBER OF CATEGORIES

21

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

BIOCHEMICAL RESEARCH METHODS
BIOCHEMISTRY & MOLECULAR BIOLOGY
CHEMISTRY, ANALYTICAL
CHEMISTRY, APPLIED
CHEMISTRY, INORGANIC & NUCLEAR
CHEMISTRY, MEDICINAL
CHEMISTRY, ORGANIC
CHEMISTRY, PHYSICAL
ELECTROCHEMISTRY
ENERGY & FUELS
ENGINEERING, CHEMICAL
ENGINEERING, PETROLEUM

- ✚ After selecting this category, click the **Customize** button in the top-right corner of the window that opens to select the metrics you want to see. **Be sure** to check **Aggregate impact factor** and click the **Apply** button:

ENERGY & FUELS

Category Group Edition

Citable Items	Total Citations	Aggregate impact factor
72,851	3,770,211	7.2

Journal Citation Reports dataset updated Oct 15, 2025

Filter

ENERGY & FUELS

Chemistry; Physics

ESCI, SCIE

Customize

Category metrics

- Group
- Edition
- # of journals
- Citable items
- Total Citations
- Median impact factor
- Aggregate impact factor
- Aggregate Immediacy Index
- Aggregate Cited Half-Life
- Aggregate Citing Half-Life

Apply

✚ We found the AIF score for the first journal category: 7.2. Next, click the black filter box on the left, expand the lists for the main subject groups **Chemistry** and **Materials science** and select the remaining two journal categories:

Filter

Categories (178) >

Citation Indexes >

JCR Year >

Reset Apply

Categories by group

- All Categories (178) >
- Agricultural Sciences (7) >
- Arts & Humanities, Interdisciplinary (1) >
- Biology & Biochemistry (33) >
- Chemistry (21) >**
- Clinical Medicine (57) >
- Computer Science (13) >
- Economics & Business (5) >
- Engineering (39) >
- Environment/Ecology (12) >
- Geosciences (14) >
- History & Archaeology (1) >
- Materials Science (17) >
- Mathematics (10) >

Search categories (Web of Science)

- Select All
- Biochemical Research Methods
- Biochemistry & Molecular Biology
- Chemistry, Analytical
- Chemistry, Applied
- Chemistry, Inorganic & Nuclear
- Chemistry, Medicinal
- Chemistry, Organic
- Chemistry, Physical
- Electrochemistry
- Energy & Fuels
- Engineering, Chemical
- Engineering, Petroleum
- Food Science & Technology
- Geochemistry & Geophysics
- Geology
- Mineralogy
- Nanoscience & Nanotechnology
- Oceanography
- Pharmacology & Pharmacy
- Polymer Science
- Spectroscopy

Categories (178) >

Citation Indexes >

JCR Year >

Reset Apply

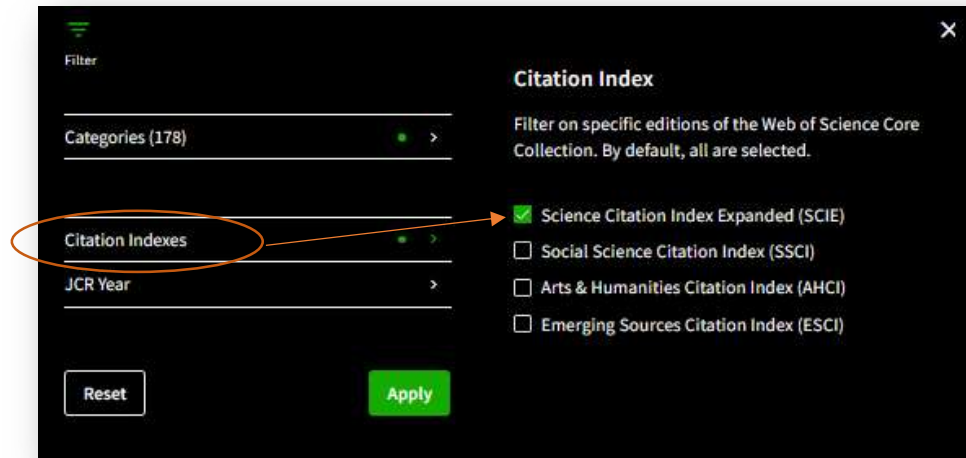
Categories by group

- All Categories (178) >
- Agricultural Sciences (7) >
- Arts & Humanities, Interdisciplinary (1) >
- Biology & Biochemistry (33) >
- Chemistry (21) >
- Clinical Medicine (57) >
- Computer Science (13) >
- Economics & Business (5) >
- Engineering (39) >
- Environment/Ecology (12) >
- Geosciences (14) >
- History & Archaeology (1) >
- Materials Science (17) >**
- Mathematics (10) >

Search categories (Web of Science)

- Select All
- Cell & Tissue Engineering
- Construction & Building Technology
- Crystallography
- Engineering, Electrical & Electronic
- Engineering, Manufacturing
- Materials Science, Biomaterials
- Materials Science, Ceramics
- Materials Science, Characterization & Testing
- Materials Science, Coatings & Films
- Materials Science, Composites
- Materials Science, Multidisciplinary
- Materials Science, Paper & Wood
- Materials Science, Textiles
- Metallurgy & Metallurgical Engineering
- Nanoscience & Nanotechnology
- Physics, Condensed Matter
- Polymer Science

Next, expand the **Citation Indexes** menu, select only the **SCIE Index**, and click the **Apply** button:




We found all three research categories of the journal along with their AIF metrics:

Category	Group	Edition	# of journals	Citable Items	Total Citations	Aggregate impact factor
MATERIALS SCIENCE, MULTIDISCIPLINARY	Materials Science; Multidisciplinary	ESCI, SCIE	464	192,757	9,148,448	6.1
CHEMISTRY, PHYSICAL	Chemistry; Physics	ESCI, SCIE	186	107,496	6,387,040	7.5
ENERGY & FUELS	Chemistry; Physics	ESCI, SCIE	182	72,851	3,770,211	7.2

By adding up the AIF scores for all academic categories and dividing by 3, we obtain the average AIF score for the academic categories ($6.1 + 7.5 + 7.2 = 20.8 / 3 = 6.93$).

The journal's impact factor (IF) (9.5) is divided by the average AIF ($9.5/6.93$), resulting in an IF/AIF ratio of 1.371.

 The **IF/AIF ratio** for the *Journal of Materials Chemistry A* is **1.371**.



KTU Library, Research Information services, 2026-04-14.