

2023 Journal Performance Data for: Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering

ISSN

1221-5872

EISSN

2393-2988

JCR ABBREVIATION

ACTA TECH NAPOC SER-

ISO ABBREVIATION

Acta Tech. Napoc. Ser.-Appl.
Math. Mech. Eng.

Journal Information

EDITION

Emerging Sources Citation
Index (ESCI)

CATEGORY

MECHANICS

LANGUAGES

English

REGION

ROMANIA

1ST ELECTRONIC JCR YEAR

2020

Publisher Information

PUBLISHER

TECHNICAL UNIV CLUJ-
NAPOCA, FAC MACHINE
BUILDING DEPT SYSTEMS
ENG

ADDRESS

B-DUL MUNCII NR 103 105,
RM C01, CLUJ-NAPOCA CP
400 641, ROMANIA

PUBLICATION FREQUENCY

4 issues/year

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 characteristics of the subject area and type of journal. The Journal Impact Factor can complement 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](#)

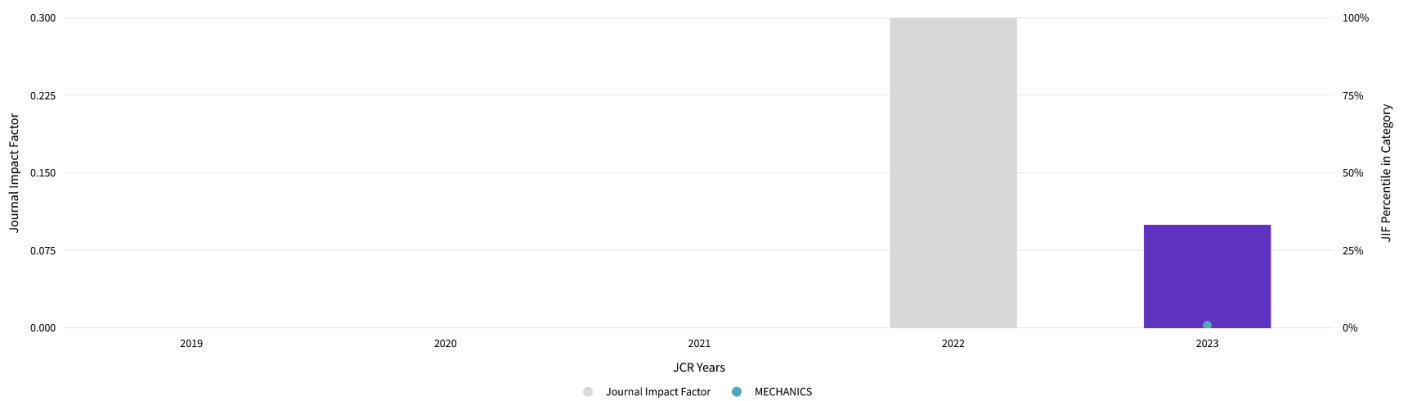
2023 JOURNAL IMPACT FACTOR

0.1

2023 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

0.1

Journal Impact Factor Trend 2023



Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2023 to items published in 2021 (19) - 2022 (20)}}{\text{Number of citable items in 2021 (170) + 2022 (238)}} = \frac{39}{408} = 0.1$$

Journal Impact Factor without self cites is calculated using the following metrics

$$\frac{\text{Citations in 2023 to items published in 2021 (19) + 2022 (20) - Self Citations in 2023 to items published in 2021 (2) + 2022 (3)}}{\text{Number of citable items in 2021 (170) + 2022 (238)}} = \frac{39 - 5}{408} = 0.1$$

Journal Impact Factor Contributing Items

Citable Items (408)

| TITLE | CITATION COUNT |
|---|----------------|
| EFFECT OF CONSTRUCTIVE PARAMETERS ON TENSILE STRENGTH OF 3D-PRINTED PLA-GRAPHITE COMPOSITE Authors: Rubashevskiy, Viktor;Shukayev, Sergiy Volume: 65 Accession number: WOS:000773188500026 Document Type: Article | 2 |
| EXPERIMENTAL STUDY ON 3D PRINTED PARTS MADE OF CONTINUOUS FIBERGLASS REINFORCED POLYMER Authors: Popan, Alina;Popan, Ioan Alexandru;Cosma, Cosmin;Ceclan, Vasile;Balc, Nicolae Volume: 64 Accession number: WOS:000694719400009 Document Type: Article | 2 |
| INDUSTRIAL ROBOTS VERSUS COLLABORATIVE ROBOTS - THE PLACE AND ROLE IN NONCONVENTIONAL TECHNOLOGIES Authors: Gusan, Vasile;Titu, Mihail Aurel;Oprean, Constantin Volume: 65 Accession number: WOS:000773188500011 Document Type: Article | 2 |
| INTELLIGENT SYSTEM FOR KNEE ERGONOMIC POSITION ANALYSIS DURING LIFTING LOADS Authors: Erazo-Chamorro, Vanessa C.;Arciniaga-Rocha, Ricardo P.;Maldonado-Mendez, Angel L.;Rosero-Montalvo, Paul D.;Szabo, Gyula Volume: 65 Accession number: WOS:000953026700019 Document Type: Article | 2 |
| REDUCING ENERGY CONSUMPTION FOR HEATING SYSTEMS IN RESIDENTIAL BUILDINGS-CASE STUDY Authors: Cilibiu, Constantin;Abrudan, Ancuta Coca;Fetea, Marius Serban Volume: 65 Accession number: WOS:000838236300011 Document Type: Article | 2 |

Showing 1-5 rows of 408 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (26)

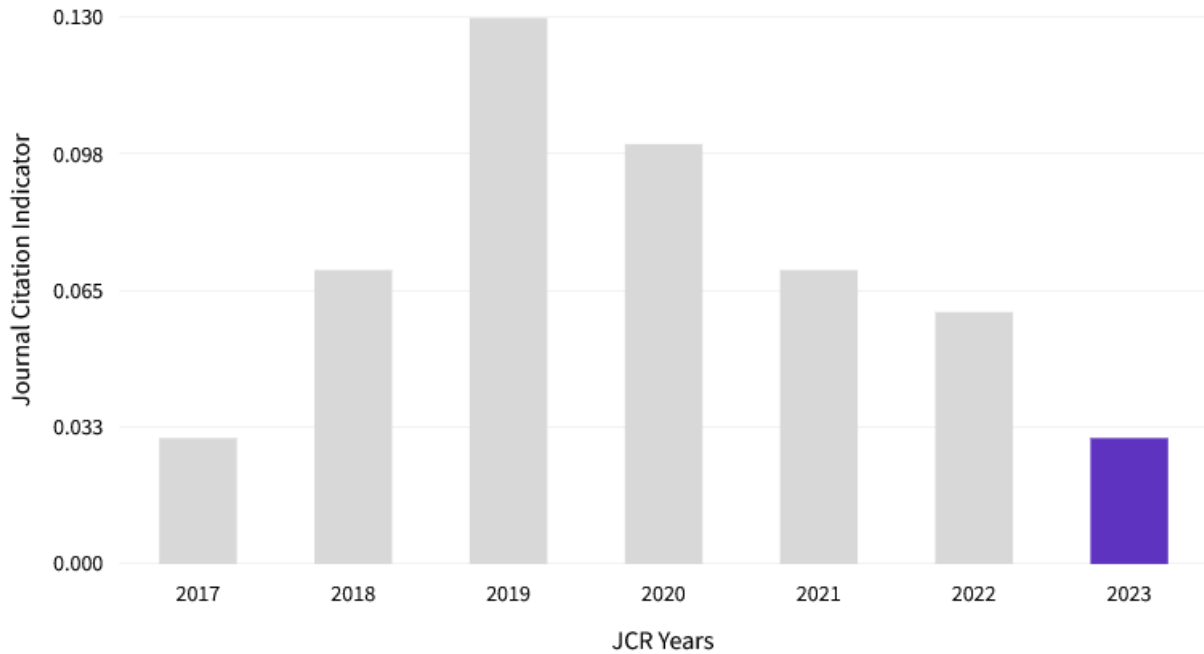
| SOURCE NAME | COUNT |
|---|-------|
| ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING | 5 |
| APPLIED SCIENCES-BASEL | 4 |
| MATERIALS | 4 |
| MACHINES | 3 |
| SUSTAINABILITY | 2 |
| ACTUATORS | 1 |
| ADMINISTRATIVE SCIENCES | 1 |
| AMFITEATRU ECONOMIC | 1 |
| ARCHIVES OF CIVIL ENGINEERING | 1 |
| BUILDINGS | 1 |
| COMPUTATION | 1 |
| ELECTRONICS | 1 |
| ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH | 1 |
| HELIYON | 1 |
| ICT FOR HEALTH, ACCESSIBILITY AND WELLBEING, IHAW 2022 | 1 |
| INFORMATION | 1 |
| INTERNATIONAL JOURNAL OF INDUSTRIAL ERGONOMICS | 1 |
| JOURNAL OF CLINICAL MEDICINE | 1 |
| JOURNAL OF MECHANICAL ENGINEERING AND SCIENCES | 1 |
| MOBILE NETWORKS & APPLICATIONS | 1 |

Showing 1-20 rows of 26 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.03

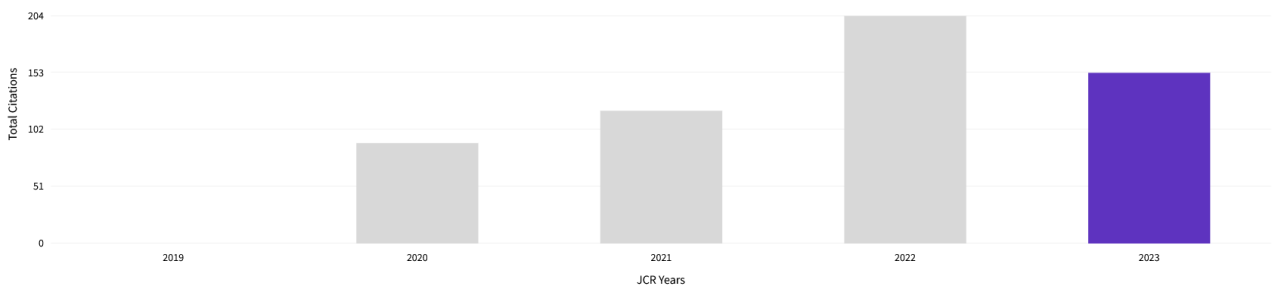
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in that category. It may be used alongside other metrics to help you evaluate journals. [Learn more](#)



Total Citations

153

The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



Citation Distribution

The Citation Distribution shows the frequency with which items published in the year or two years prior were cited in the JCR data year (i.e., the component of the calculation of the JIF). The graph has similar functionality as the JIF Trend graph, including hover-over data descriptions for each data point, and an interactive legend where each data element's legend can be used as a toggle. You can view Articles, Reviews, or Non-Citable (other) items to the JIF numerator. [Learn more](#)

ARTICLE CITATION MEDIAN

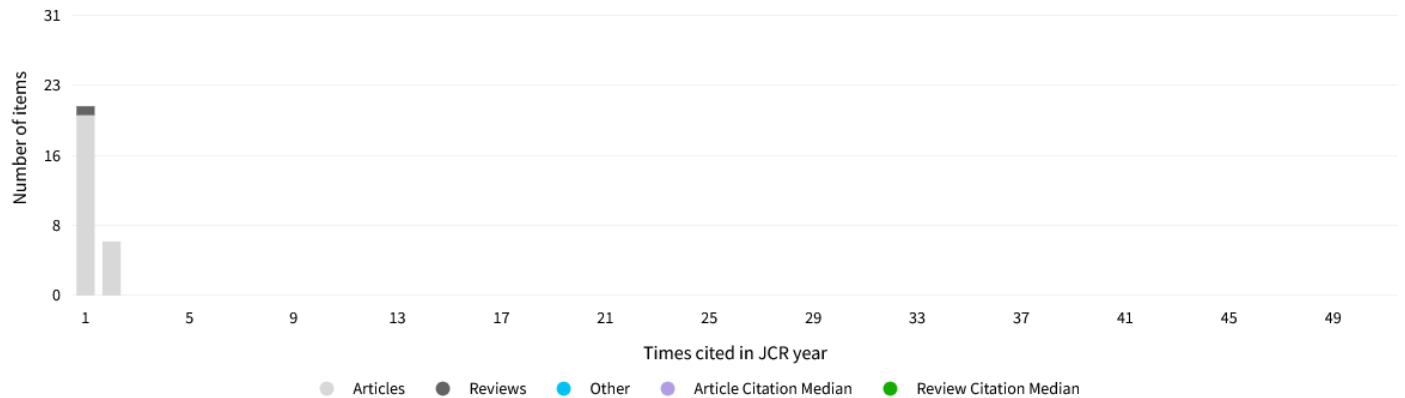
0

REVIEW CITATION MEDIAN

0

UNLINKED CITATIONS

6



0 times cited

ARTICLES

375

REVIEWS

6

OTHER

0

Open Access (OA)

The data included in this tile summarizes the items published in the journal in the JCR data year and in the previous two years. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal. [Learn more](#)

Items

TOTAL CITABLE

486

% OF CITABLE OA

0.00%

CITABLE

● GOLD OPEN ACCESS

0 / 0.00%

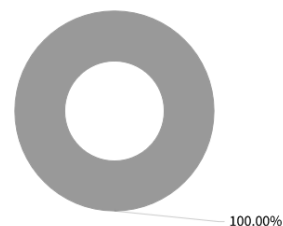
● SUBSCRIPTION OR BRONZE

486 / 100.00%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%



Citations*

TOTAL CITABLE

33

% OF CITABLE OA

0.00%

CITABLE

● GOLD OPEN ACCESS

0 / 0.00%

● SUBSCRIPTION OR BRONZE

33 / 78.57%

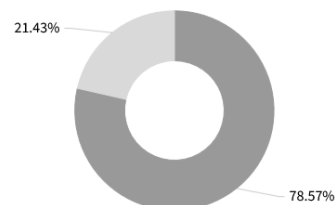
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%

● UNLINKED CITATIONS

9 / 21.43%



* Citations in 2023 to items published in (2021-2023)

Rank by Journal Impact factor

Journals within a category are sorted in descending order by Journal Impact Factor (JIF) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Beginning in 2023, ranks are calculated by category. [Learn more](#)

CATEGORY

MECHANICS

169/170

| JCR YEAR | JIF RANK | QUART ILE | JIF PERCENTILE | |
|----------|----------|-----------|----------------|----------------------|
| 2023 | 169/170 | Q4 | 0.9 | <input type="text"/> |

Rank by Journal Citation Indicator (JCI)

Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order. [Learn more](#)

CATEGORY

MECHANICS

170/170

| JCR YEAR | JCI RANK | QUARTILE | JCI PERCENTILE | |
|----------|----------|----------|----------------|----------------------|
| 2023 | 170/170 | Q4 | 0.29 | <input type="text"/> |
| 2022 | 164/164 | Q4 | 0.30 | <input type="text"/> |
| 2021 | 163/163 | Q4 | 0.31 | <input type="text"/> |
| 2020 | 154/156 | Q4 | 1.60 | <input type="text"/> |
| 2019 | 152/156 | Q4 | 2.88 | <input type="text"/> |
| 2018 | 153/154 | Q4 | 0.97 | <input type="text"/> |
| 2017 | 154/154 | Q4 | 0.32 | <input type="text"/> |

Citation network

Cited Half-life

5.4 years

The Cited Half-Life is the median age of the items in this journal that were cited in the JCR year. Half of a journal's cited items were published more recently than the cited half-life.

TOTAL NUMBER OF CITES

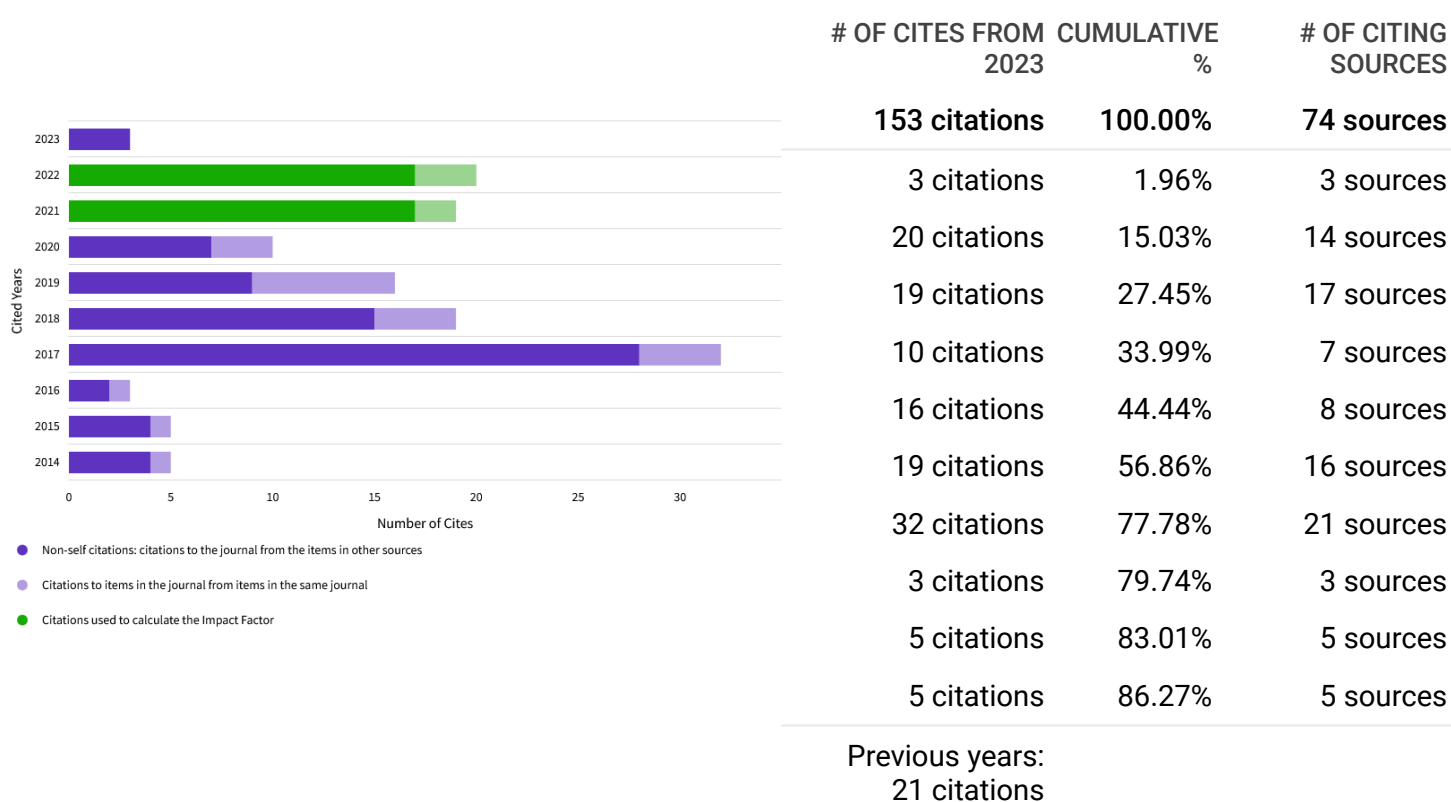
153

NON-SELF CITATIONS

122

SELF CITATIONS

31



Citing titles in all years

Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering

| | SOURCE NAME | COUNT |
|----|---|-------|
| | All Others | 49 |
| 1 | Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering | 31 |
| 2 | Mathematics | 11 |
| 3 | Applied Sciences-Basel | 8 |
| 4 | Materials | 8 |
| 5 | Romanian Journal of Acoustics and Vibration | 7 |
| 6 | Buildings | 4 |
| 7 | SENSORS | 4 |
| 8 | Sustainability | 4 |
| 9 | Machines | 3 |
| 10 | Polymers | 3 |
| 11 | Actuators | 2 |
| 12 | Administrative Sciences | 2 |
| 13 | Archives of Civil Engineering | 2 |
| 14 | Construction and Building Materials | 2 |
| 15 | EGYPTIAN JOURNAL OF CHEMISTRY | 2 |
| 16 | Safety | 2 |
| 17 | Acoustics | 1 |
| 18 | ADV COMPUT | 1 |
| 19 | AIMS Mathematics | 1 |
| 20 | AIP Advances | 1 |

Showing 1 - 20 rows of 25 total (use export in the relevant section to download the full table)

Citing Half-life

8.9 years

The Citing Half-Life is the median age of items in other publications cited by this journal in the JCR year.

TOTAL NUMBER OF CITES

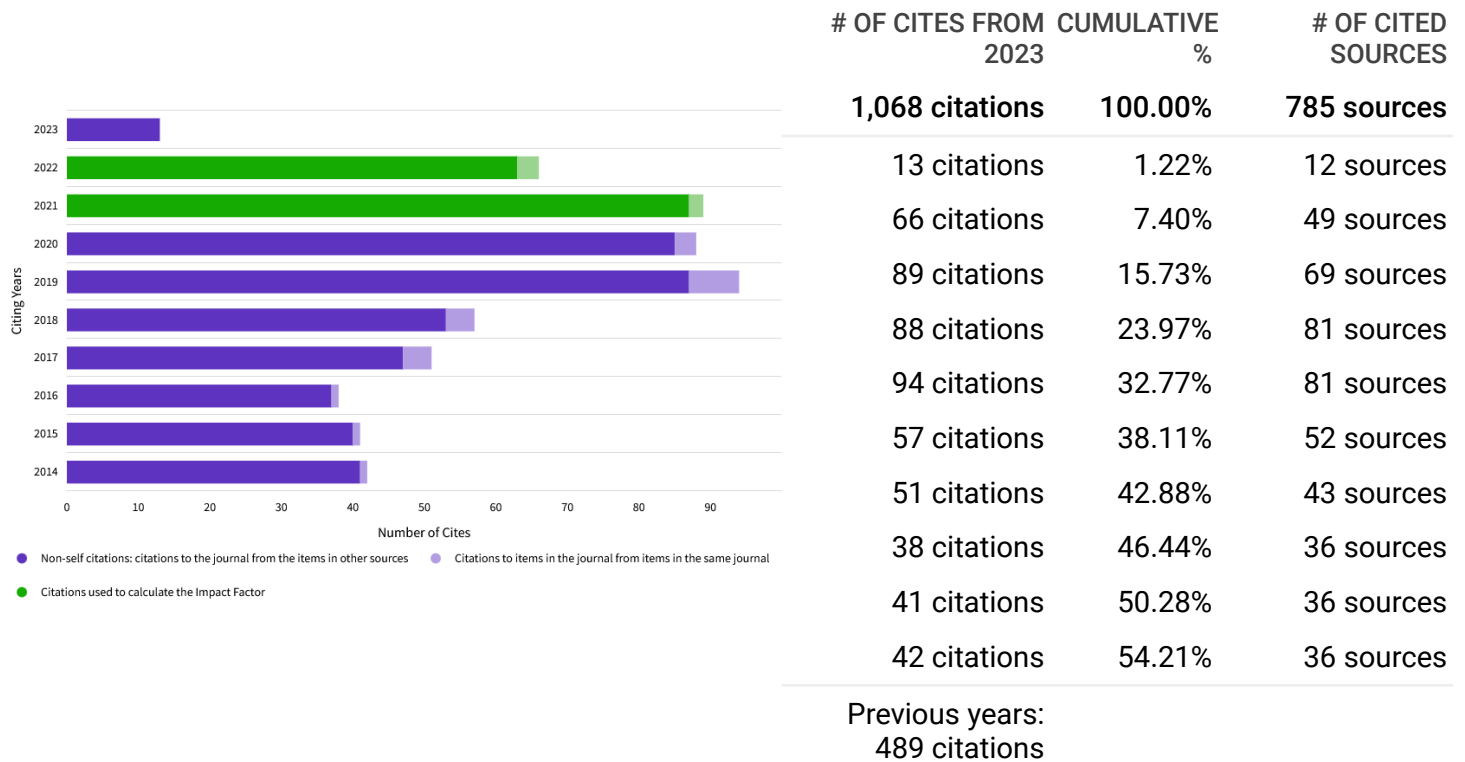
1,068

NON-SELF CITATIONS

1,037

SELF CITATIONS

31



Cited titles in all years

Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering

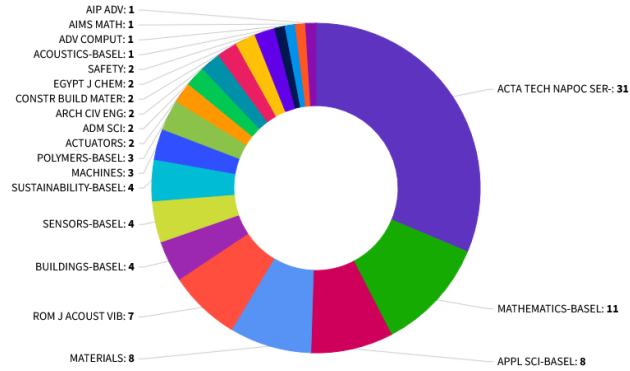
| | SOURCE NAME | COUNT |
|----|---|-------|
| | All Others | 670 |
| 1 | Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering | 31 |
| 2 | US | 25 |
| 3 | Romanian Journal of Acoustics and Vibration | 18 |
| 4 | ABOUT US | 9 |
| 5 | Materials | 8 |
| 6 | IOP C SER-MAT SCI | 7 |
| 7 | MATEC WEB CONF | 7 |
| 8 | Mathematics | 7 |
| 9 | Sustainability | 7 |
| 10 | Symmetry-Basel | 7 |
| 11 | COMPOSITE STRUCTURES | 6 |
| 12 | Fire Safety Journal | 6 |
| 13 | SAE TECH PAPER | 6 |
| 14 | ACTA TECH NAPOCE | 5 |
| 15 | APPL MECH MAT | 5 |
| 16 | APPL MECH MATER | 5 |
| 17 | Applied Sciences-Basel | 5 |
| 18 | APPLIED THERMAL ENGINEERING | 5 |
| 19 | INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY | 5 |
| 20 | SENSORS | 5 |

Showing 1 - 20 rows of 115 total (use export in the relevant section to download the full table)

Journal Citation Relationships

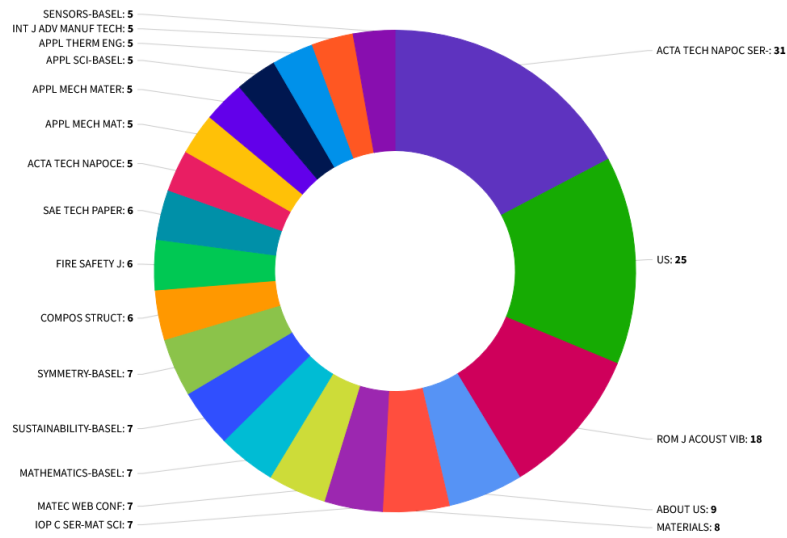
Cited Data

Top 20 journals citing ACTA TECH NAPOC SER- by number of citations



Citing Data

Top 20 journals cited by ACTA TECH NAPOC SER- by number of citations



Content metrics

Source data

This tile shows the breakdown of document types published by the journal. Citable Items are Articles and Reviews. For the purposes of calculating JIF, a JCR year considers the publications of that journal in the two prior years. [Learn more](#)

78 total citable items

| | ARTICLES | REVIEWS | COMBINED (C) | OTHER DOCUMENT TYPES (O) | PERCENTAGE |
|-----------------------------|----------|---------|--------------|--------------------------|------------|
| NUMBER IN JCR YEAR 2023 (A) | 77 | 1 | 78 | 0 | 100% |
| NUMBER OF REFERENCES (B) | 1,057 | 11 | 1,068 | 0 | 100% |
| RATIO (B/A) | 13.7 | 11.0 | 13.7 | N/A | |

Average JIF Percentile

The Average Journal Impact Factor Percentile takes the sum of the JIF Percentile rank for each category under consideration, then calculates the average of those values. [Learn more](#)

ALL CATEGORIES AVERAGE









0.9

MECHANICS

0.9

Contributions by Organizations









Organizations that have contributed the most papers to the journal in the most recent three-year period. [Learn more](#)

| RANK | ORGANIZATION | COUNT | |
|------|---|-------|--|
| 1 | TECHNICAL UNIVERSITY OF CLUJ NAPOCA | 166 |  |
| 2 | UNIVERSITATEA POLITEHNICA TIMISOARA | 65 |  |
| 3 | NATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY POLITEHNICA BUCHAREST | 57 |  |
| 4 | UNIVERSITY OF CRAIOVA | 35 |  |
| 5 | ROMANIAN ACADEMY OF SCIENCES | 28 |  |
| 6 | LUCIAN BLAGA UNIVERSITY OF SIBIU | 27 |  |
| 7 | GH ASACHI TECHNICAL UNIVERSITY | 23 |  |
| 8 | TRANSYLVANIA UNIVERSITY OF BRASOV | 19 |  |

Showing 1 - 8 rows of 253 total (use export in the relevant section to download the full table)

Contributions by country/region

Countries or Regions that have contributed the most papers to the journal in the most recent three-year period. [Learn more](#)

| RANK | COUNTRY/REGION | COUNT | |
|------|-----------------------|-------|--|
| 1 | ROMANIA | 412 |  |
| 2 | ALGERIA | 18 |  |
| 3 | GERMANY (FED REP GER) | 11 |  |
| 4 | ITALY | 8 |  |
| - | TURKIYE | 8 |  |
| 6 | BULGARIA | 7 |  |
| - | CROATIA | 7 |  |
| - | POLAND | 7 |  |

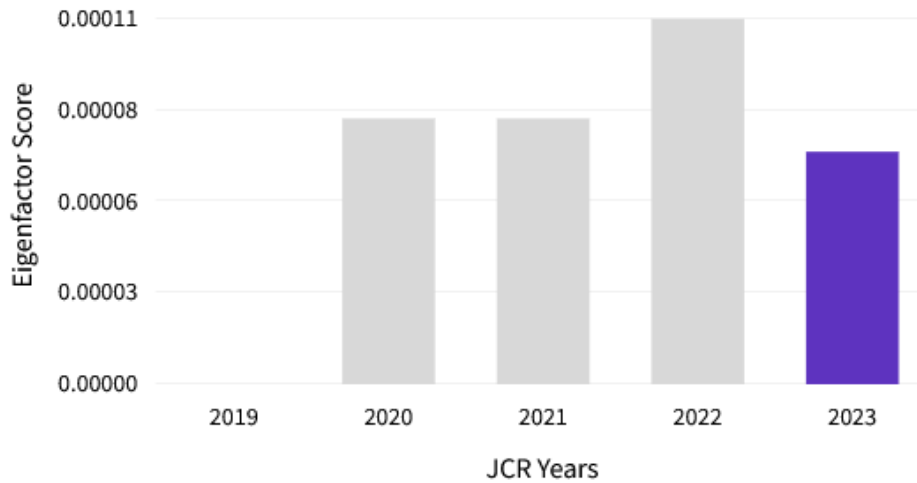
Showing 1 - 8 rows of 45 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00007

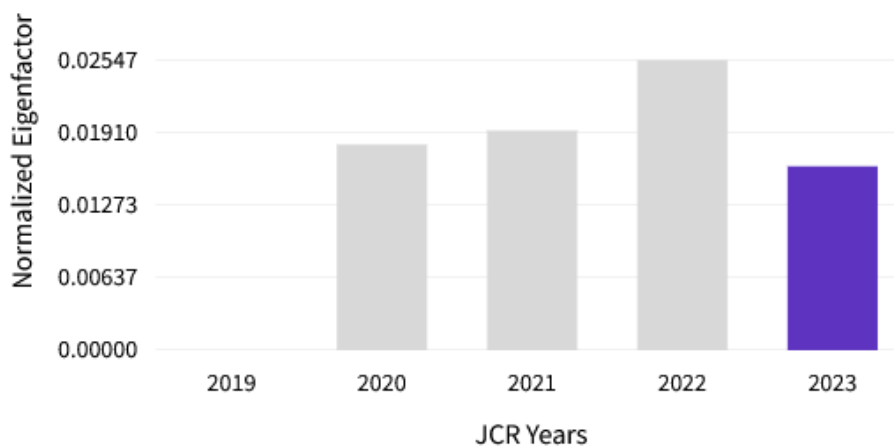
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than less cited sources. The Eigenfactor calculation does not include journal self-citations. [Learn more](#)



Normalized Eigenfactor

0.01615

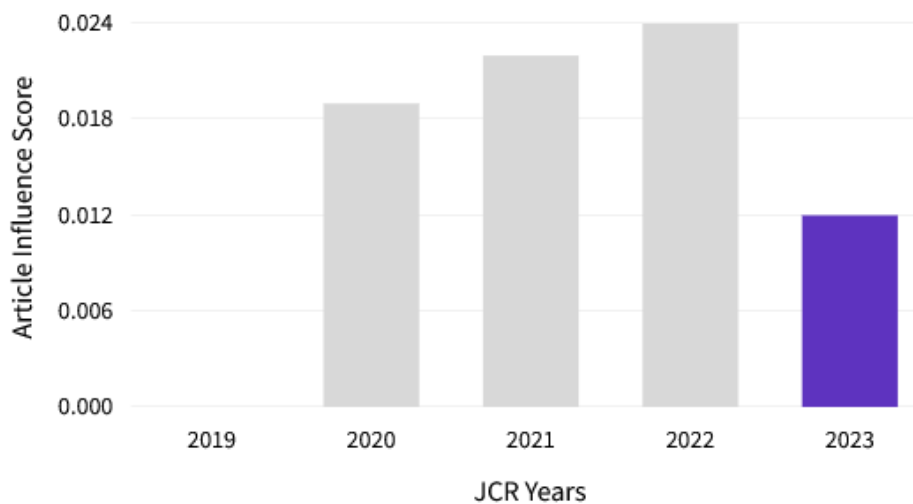
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)



Article influence score

0.012

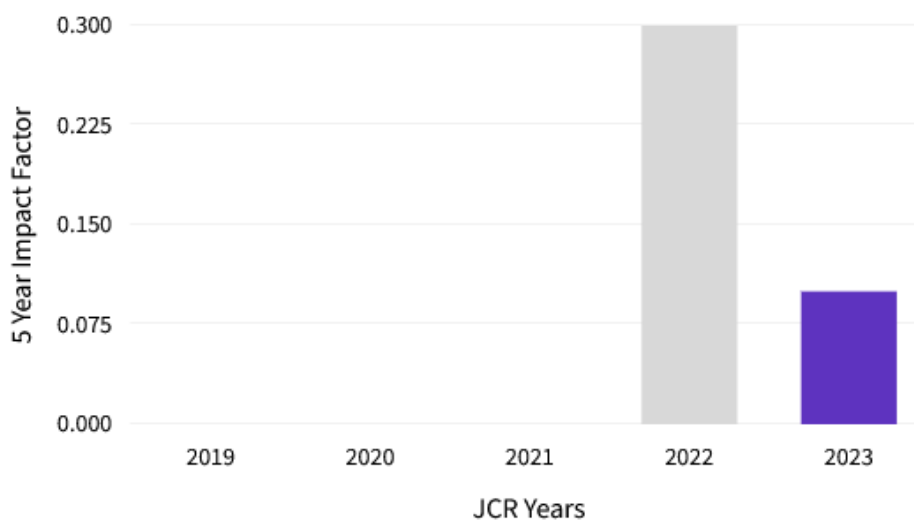
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence. [Learn more](#)



5 year Impact Factor

0.1

The 5-year Impact Factor is the average number of times articles from the journal published in the past five years have been cited in the JCR year. It is calculated by dividing the number of citations in the JCR year by the total number of articles published in the five previous years.



5 year Impact Factor calculation

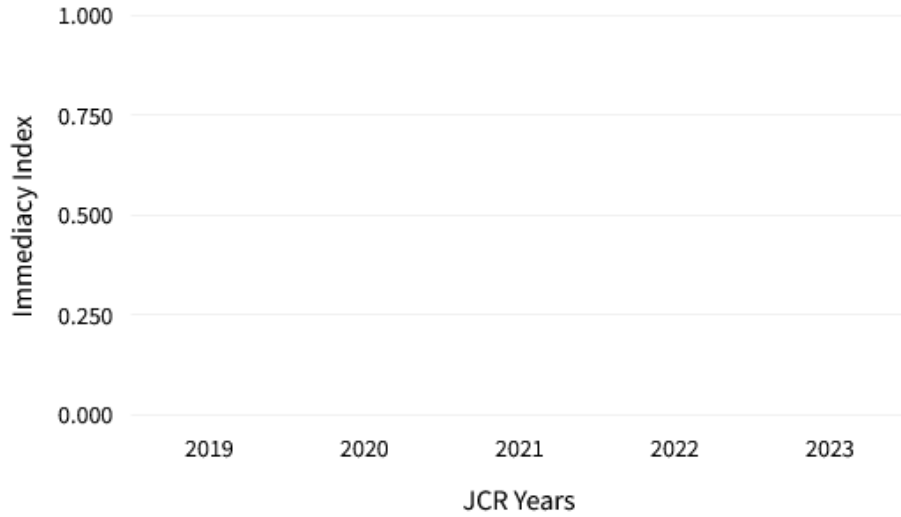
$$\frac{\text{Citations in 2023 to items published in [2018-2022] (84)}}{\text{Number of citable items in [2018-2022] (715)}} = \frac{84}{715} = 0.1$$

Immediacy Index

<0.1

The Immediacy Index is the count of citations in the current year to the journal that reference content in this same year. Journals that have a consistently high Immediacy Index attract citations rapidly.

[Learn more](#)



Immediacy Index calculation

$$\frac{\text{Cites in 2023 to items published in [2023]}}{\text{Number of items published in [2023]}} = \frac{3}{78} = <0.1$$