


2021 Journal Performance Data for: Ain Shams Engineering Journal

 Open Access since 2010

ISSN

2090-4479

EISSN

2090-4495

JCR ABBREVIATION

AIN SHAMS ENG J

ISO ABBREVIATION

Ain Shams Eng. J.

Journal Information

EDITION

Science Citation Index
Expanded (SCIE)

CATEGORY

ENGINEERING,
MULTIDISCIPLINARY - SCIE

LANGUAGES

English

REGION

EGYPT

1ST ELECTRONIC JCR YEAR

2018

Publisher Information

PUBLISHER

ELSEVIER

ADDRESS

RADARWEG 29, 1043 NX
AMSTERDAM, NETHERLANDS

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.

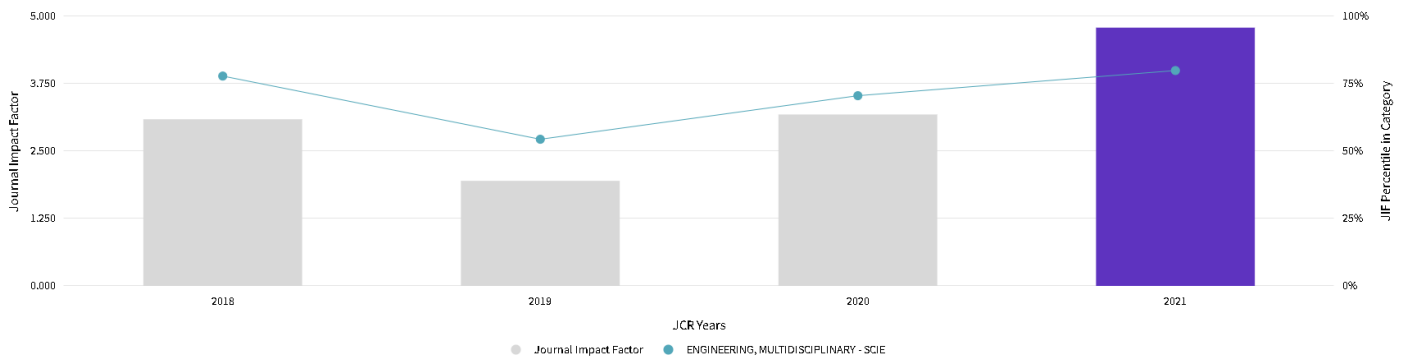
2021 JOURNAL IMPACT FACTOR

4.790

2021 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

4.416

Journal Impact Factor Trend 2021



Journal Impact Factor is calculated using the following metrics






$$\frac{\text{Citations in 2021 to items published in 2019 (429) - 2020 (596)}}{\text{Number of citable items in 2019 (89) + 2020 (125)}} = \frac{1,025}{214} = 4.790$$

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

$$\frac{\text{Citations in 2021 to items published in 2019 (429) + 2020 (596) - Self Citations in 2021 to items published in 2019 (34) + 2020 (46)}}{\text{Number of citable items in 2019 (89) + 2020 (125)}} = \frac{1,025 - 80}{214} = 4.416$$

Journal Impact Factor Contributing Items

Citable Items (214)

TITLE	CITATION COUNT
Taylor series solution for a third order boundary value problem arising in Architectural Engineering Authors: He, Ji-Huan Volume: 11 Accession number: WOS:000600219500021 Document Type: Article	26 
Comparison of evolutionary multi objective optimization algorithms in optimum design of water distribution network Authors: Monsef, H.;Naghashzadegan, M.;Jamali, A.;Farmani, R. Volume: 10 Accession number: WOS:000460910300012 Document Type: Article	25 
Industrial Revolution 4.0 in the construction industry: Challenges and opportunities for stakeholders Authors: Alaloul, Wesam Salah;Liew, M. S.;Zawawi, Noor Amila Wan Abdullah;Kennedy, Ickx Baldwin Volume: 11 Accession number: WOS:000519625000022 Document Type: Article	23 
Whale optimization algorithm to tune PID and PIDA controllers on AVR system Authors: Mosaad, Ahmed M.;Attia, Mahmoud A.;Abdelaziz, Almoataz Y. Volume: 10 Accession number: WOS:000502347800010 Document Type: Article	21 
The seismic vulnerability assessment methodologies: A state-of-the-art review Authors: Kassem, Moustafa Moufid;Nazri, Fadzli Mohamed;Farsangi, Ehsan Noroozinejad Volume: 11 Accession number: WOS:000600244200001 Document Type: Review	20 

Showing 1-5 rows of 214 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (471)

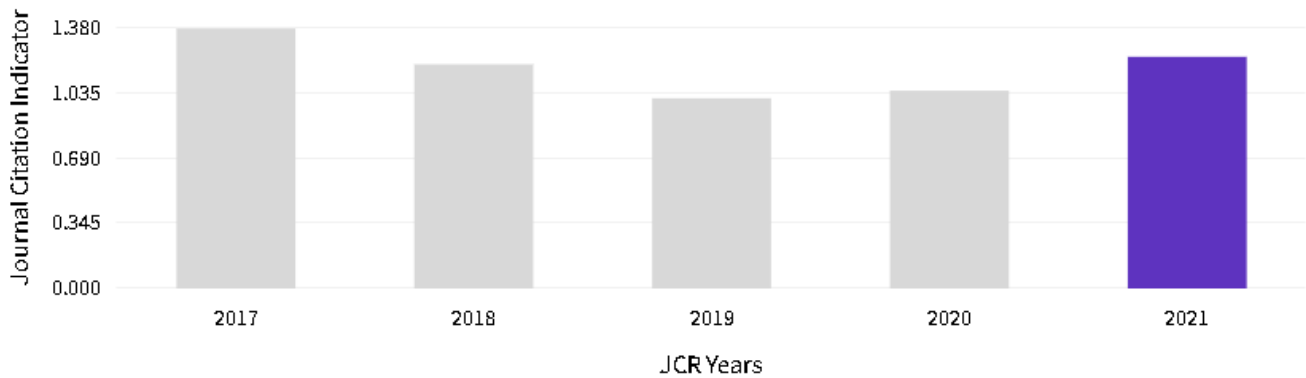
SOURCE NAME	COUNT
AIN SHAMS ENGINEERING JOURNAL	80
ENERGIES	22
APPLIED SCIENCES-BASEL	20
IEEE ACCESS	19
CONSTRUCTION AND BUILDING MATERIALS	17
SUSTAINABILITY	16
JOURNAL OF BUILDING ENGINEERING	15
JOURNAL OF CLEANER PRODUCTION	13
JOURNAL OF ENGINEERING DESIGN AND TECHNOLOGY	12
ALEXANDRIA ENGINEERING JOURNAL	11
STRUCTURES	11
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS	10
ELECTRONICS	10
CASE STUDIES IN THERMAL ENGINEERING	10
MATERIALS	10
MATERIALS TODAY-PROCEEDINGS	10
APPLIED SOFT COMPUTING	9
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	8
MATHEMATICAL METHODS IN THE APPLIED SCIENCES	8
WATER	7

Showing 1-20 rows of 471 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

1.23

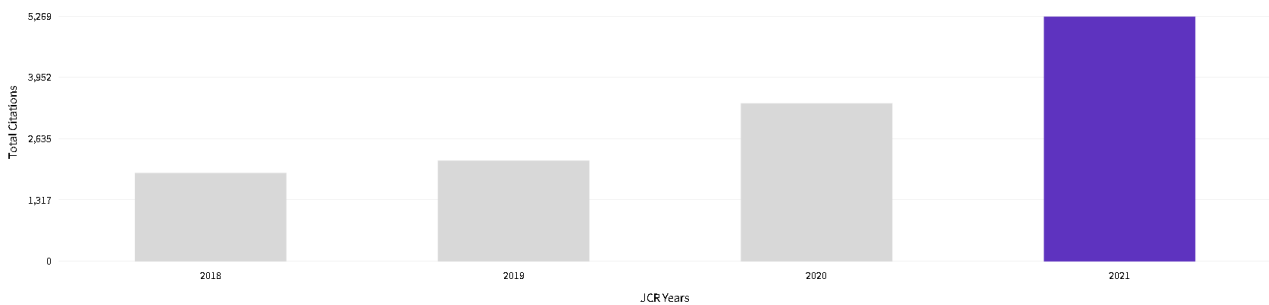
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

5,269

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.

ARTICLE CITATION MEDIAN

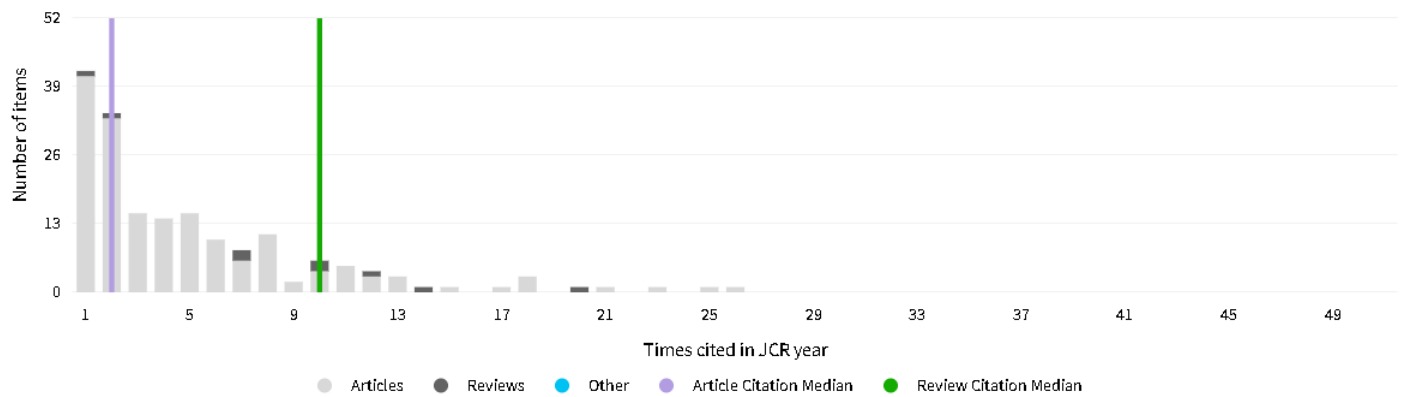
2

REVIEW CITATION MEDIAN

10

UNLINKED CITATIONS

100



0 times cited

ARTICLES

34

REVIEWS

0

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. For example, in the 2020 JCR data, released in June 2021, the Open Access (OA) data show the publication model (Gold OA or subscription) of materials published in 2018, 2019 and 2020, and citations in 2020 to these items. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal.

Items

TOTAL CITABLE

591

% OF CITABLE OA

99.66%

CITABLE

● GOLD OPEN ACCESS

589 / 99.49%

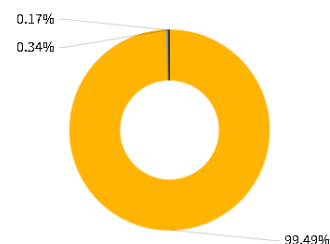
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

1 / 0.17%

● SUBSCRIPTION OR BRONZE

2 / 0.34%



Citations*

TOTAL CITABLE

1,724

% OF CITABLE OA

99.88%

CITABLE

● GOLD OPEN ACCESS

1,722 / 87.90%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

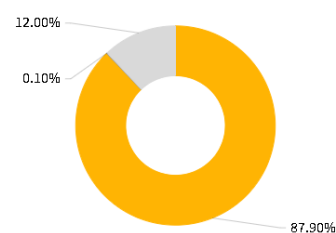
0 / 0.00%

● SUBSCRIPTION OR BRONZE

2 / 0.10%

● UNLINKED CITATIONS

235 / 12.00%



* Citations in 2021 to items published in (2019-2021)

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. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order.




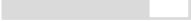
EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

ENGINEERING, MULTIDISCIPLINARY

19/92

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE	
2021	19/92	Q1	79.89	
2020	27/90	Q2	70.56	
2019	42/91	Q2	54.40	
2018	20/88	Q1	77.84	

Rank by Journal Citation Indicator (JCI)



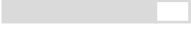
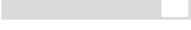
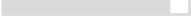
Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years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

Only journals which have a calculated JCI value are included in the JCI ranking. The total number of journals displayed in this ranking may be less than the category overall.

CATEGORY

ENGINEERING, MULTIDISCIPLINARY

23/175

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE	
2021	23/175	Q1	87.14	
2020	28/170	Q1	83.82	
2019	31/169	Q1	81.95	
2018	27/168	Q1	84.23	
2017	19/168	Q1	88.99	

Citation network

Cited Half-life

3.5 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

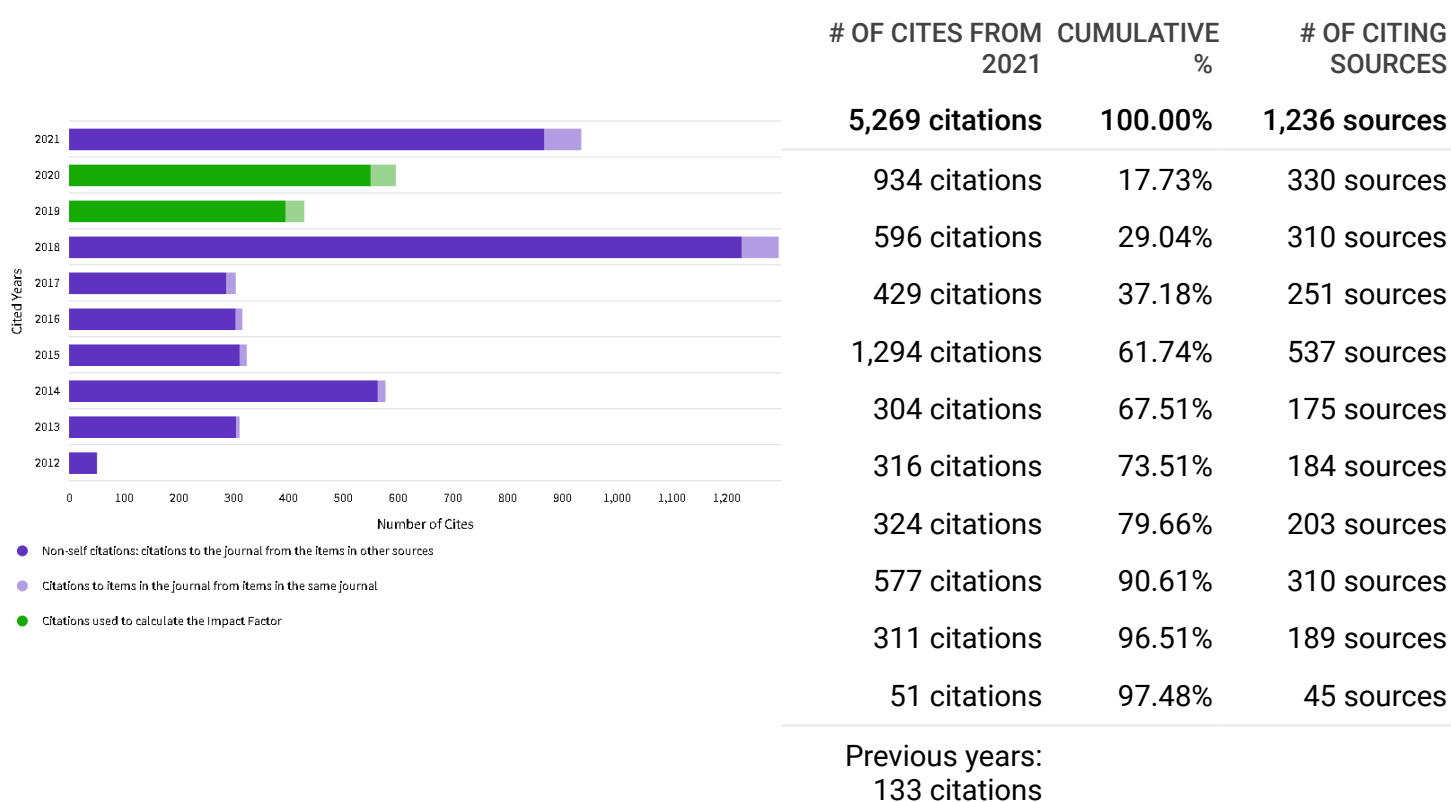
5,269

NON-SELF CITATIONS

4,989

SELF CITATIONS

280



Citing titles in all years

Ain Shams Engineering Journal

	SOURCE NAME	COUNT
	All Others	662
1	Ain Shams Engineering Journal	280
2	Heat Transfer	134
3	IEEE Access	124
4	Energies	111
5	CONSTRUCTION AND BUILDING MATERIALS	86
6	Sustainability	86
7	Applied Sciences-Basel	82
8	Alexandria Engineering Journal	76
9	Case Studies in Thermal Engineering	65
10	Materials	58
11	INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER	55
12	Journal of Building Engineering	47
13	Scientific Reports	46
14	International Transactions on Electrical Energy Systems	42
15	Energy Reports	39
16	Journal of Cleaner Production	39
17	APPLIED SOFT COMPUTING	36
18	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	36
19	Water	36
20	Waves in Random and Complex Media	36

Showing 1 - 20 rows of 548 total (use export in the relevant section to download the full table)

Citing Half-life

6.7 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

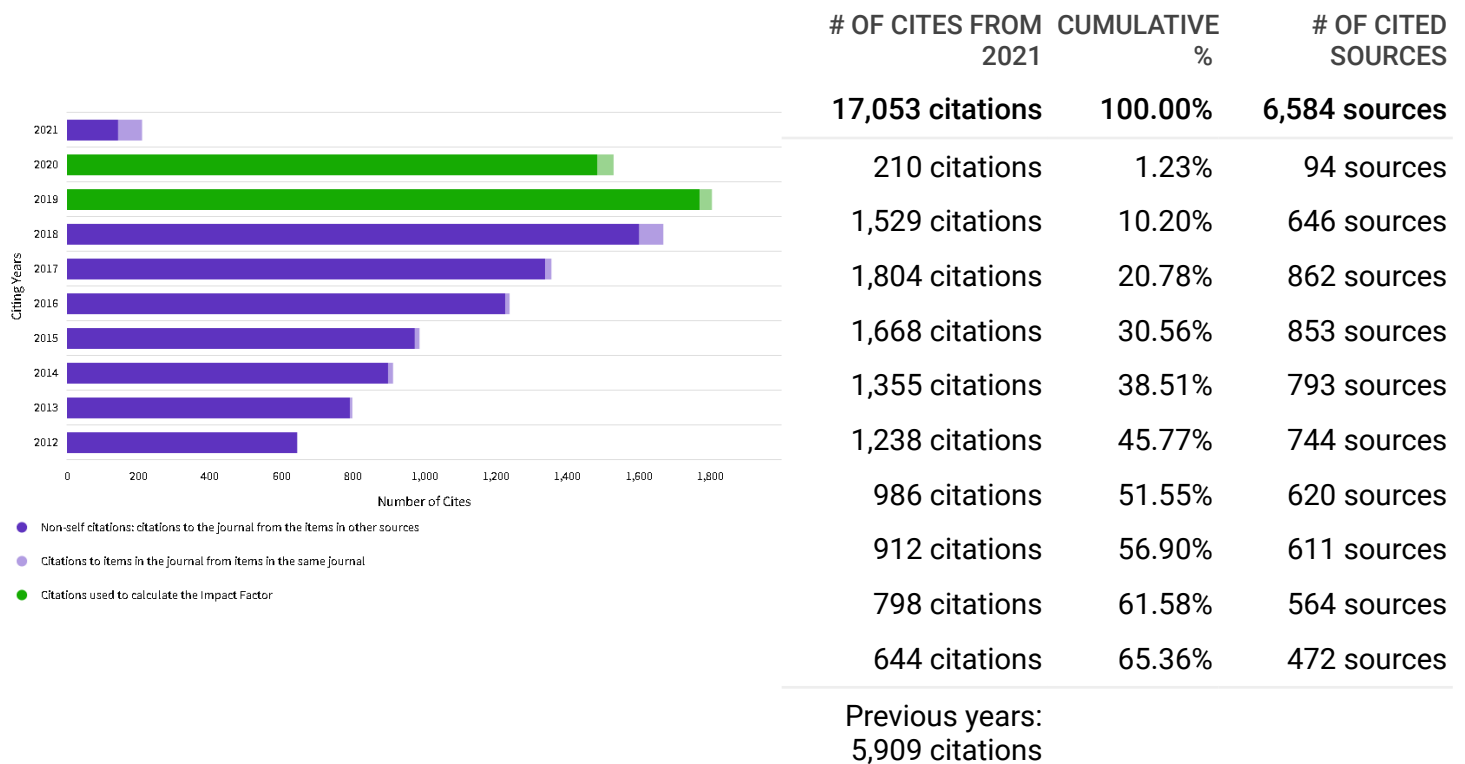
17,053

NON-SELF CITATIONS

16,773

SELF CITATIONS

280



Cited titles in all years

Ain Shams Engineering Journal

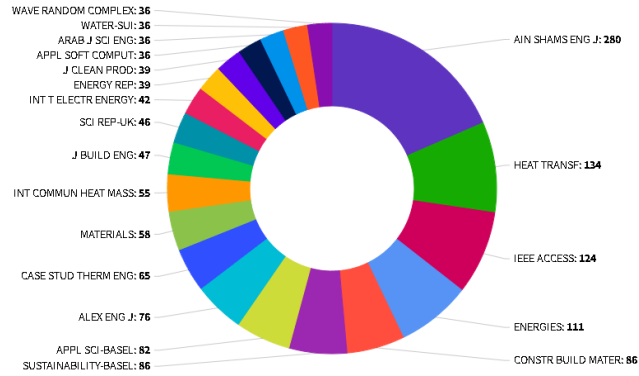
	SOURCE NAME	COUNT
	All Others	4,943
1	CONSTRUCTION AND BUILDING MATERIALS	450
2	Ain Shams Engineering Journal	280
3	INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS	171
4	Civil Engineering Journal-Tehran	126
5	CEMENT AND CONCRETE RESEARCH	121
6	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	120
7	Alexandria Engineering Journal	114
8	ENERGY	104
9	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	99
10	Energies	94
11	IEEE Access	94
12	APPLIED MATHEMATICS AND COMPUTATION	88
13	ELECTRIC POWER SYSTEMS RESEARCH	88
14	Journal of Cleaner Production	84
15	IEEE TRANSACTIONS ON POWER ELECTRONICS	83
16	IEEE TRANSACTIONS ON POWER SYSTEMS	83
17	ENERGY CONVERSION AND MANAGEMENT	78
18	IET Generation Transmission & Distribution	77
19	JOURNAL OF MOLECULAR LIQUIDS	77
20	Results in Physics	72

Showing 1 - 20 rows of 1109 total (use export in the relevant section to download the full table)

Journal Citation Relationships

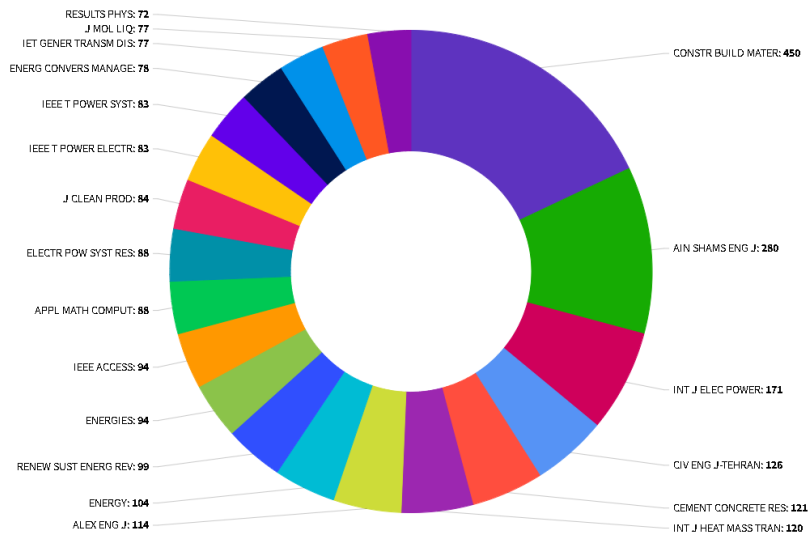
Cited Data

Top 20 journals citing AIN SHAMS ENG J by number of citations



Citing Data

Top 20 journals cited by AIN SHAMS ENG J 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.

377 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2021 (A)	361	16	377	1	100%
NUMBER OF REFERENCES (B)	15,005	2,041	17,046	7	100%
RATIO (B/A)	41.6	127.6	45.2	7.0	

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.

ALL CATEGORIES AVERAGE

79.89

EDITION









Science Citation Index Expanded

ENGINEERING, MULTIDISCIPLINARY

79.89

Contributions by Organizations









Organizations that have contributed the most papers to the journal in the most recent three-year period.

RANK	ORGANIZATION	COUNT	
1	EGYPTIAN KNOWLEDGE BANK (EKB)	211	
2	UNIVERSITI TEKNOLOGI PETRONAS	29	
3	ISLAMIC AZAD UNIVERSITY	19	
4	PRINCE SATTAM BIN ABDULAZIZ UNIVERSITY	18	
5	KING ABDULAZIZ UNIVERSITY	15	
6	KING SAUD UNIVERSITY	14	
7	INDIAN INSTITUTE OF TECHNOLOGY SYSTEM (IIT SYSTEM)	11	
-	KING KHALID UNIVERSITY	11	

Showing 1 - 8 rows of 543 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.

RANK	COUNTRY/REGION	COUNT	
1	Egypt	216	
2	Saudi Arabia	107	
3	India	96	
4	Malaysia	61	
5	Pakistan	54	
6	Iran	53	
7	CHINA MAINLAND	34	
8	Iraq	30	

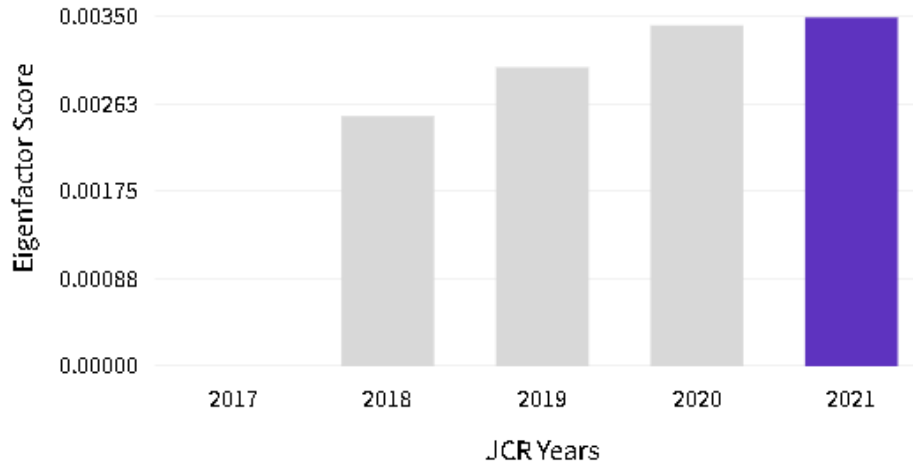
Showing 1 - 8 rows of 63 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00350

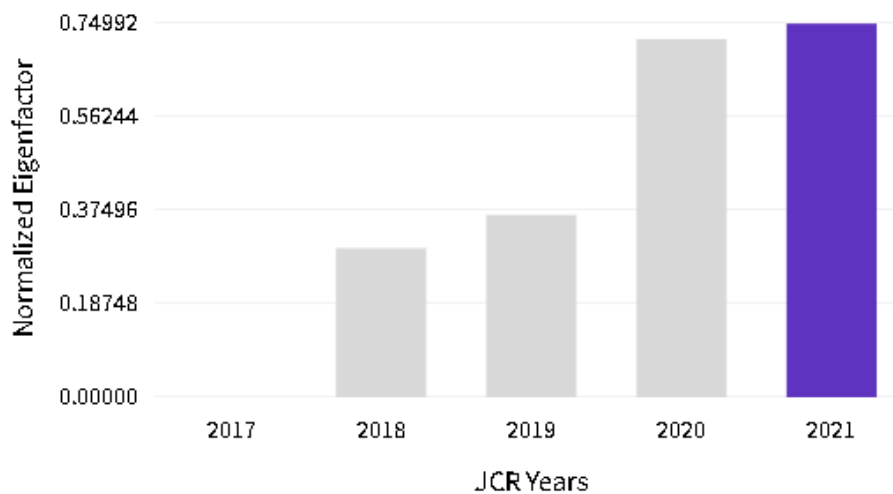
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.74992

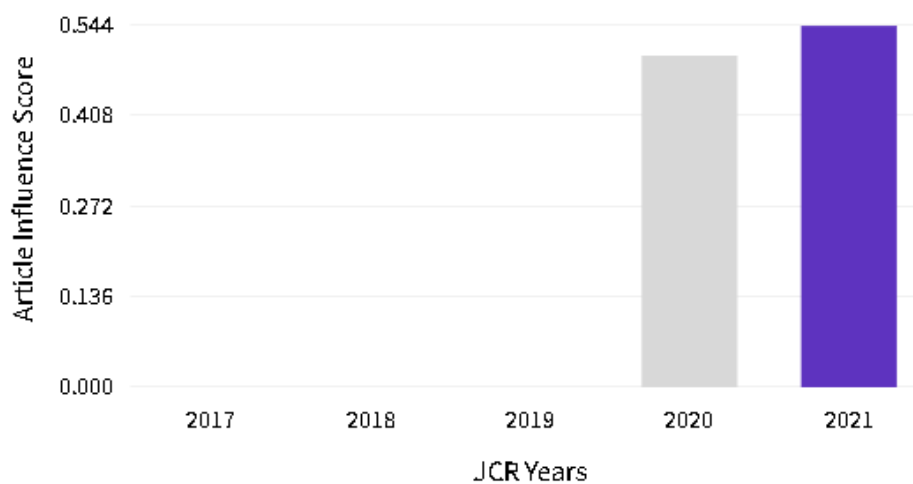
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1.



Article influence score

0.544

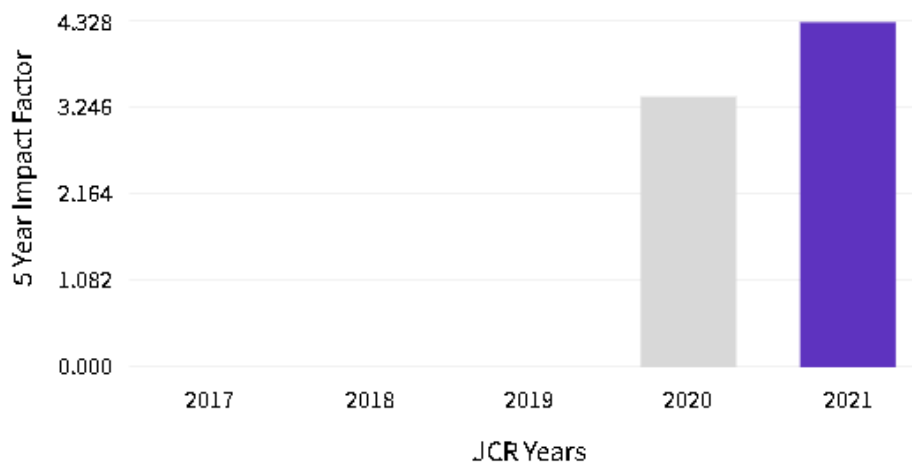
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.



5 year Impact Factor

4.328

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.



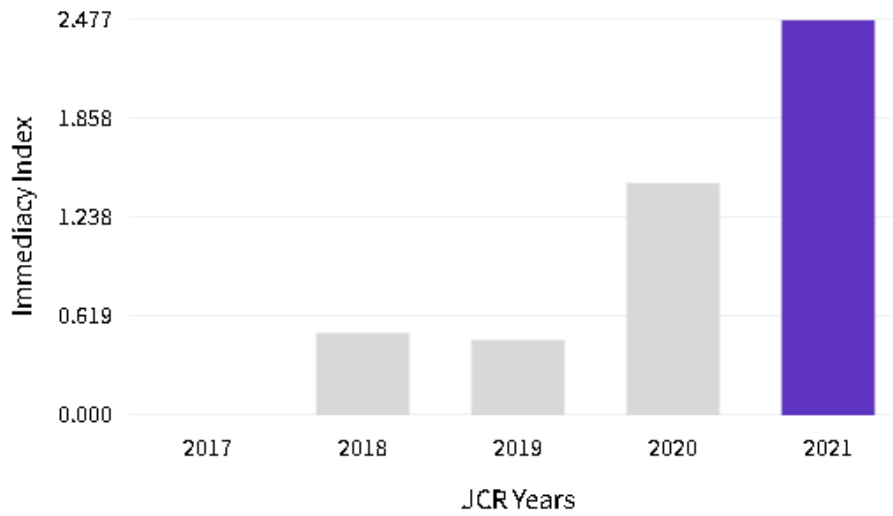
5 year Impact Factor calculation

$$\frac{\text{Citations in 2021 to items published in [2016-2020] (2,939)}}{\text{Number of citable items in [2016-2020] (679)}} = \frac{2,939}{679} = 4.328$$

Immediacy Index

2.477

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.



Immediacy Index calculation

Cites in 2021 to items published in 2021	934	
<hr/>		$934 / 377 = 2.477$
Number of items published in 2021	377	