2022 Journal Performance Data for: IUCrJ

Open Access since 2014

ISSN
2052-2525

EISSN
2052-2525

JCR ABBREVIATION
IUCRJ

ISO ABBREVIATION
IUCrJ

Journal Information

EDITION
Science Citation Index Expanded (SCIE)

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

LANGUAGES
English

REGION
ENGLAND

1ST ELECTRONIC JCR YEAR
2015

Publisher Information

PUBLISHER
INT UNION CRYSTALLOGRAPHY

ADDRESS
2 ABBEY SQ, CHESTER CH1 2HU, ENGLAND

PUBLICATION FREQUENCY
6 issues/year

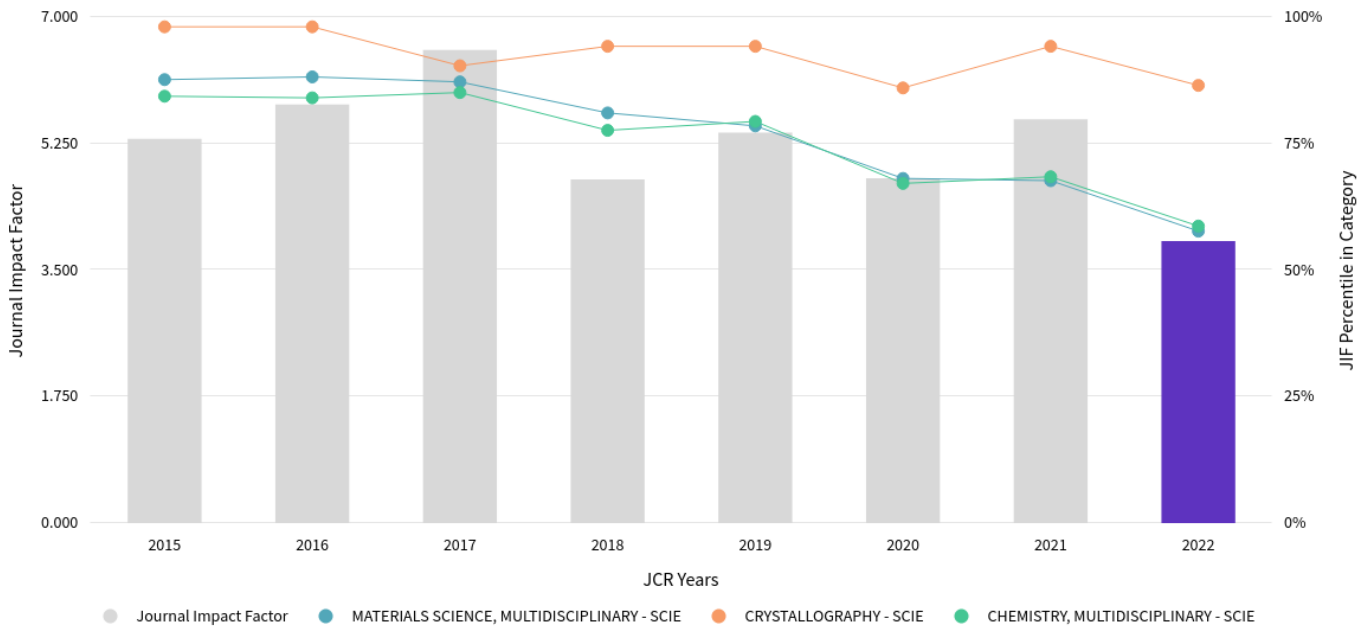
Journal's Performance

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

2022 JOURNAL IMPACT FACTOR	2022 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
3.9	3.7

Journal Impact Factor Trend 2022



Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2022 to items published in 2020 (517) - 2021 (272)}}{\text{Number of citable items in 2020 (112) + 2021 (89)}} = \frac{789}{201} = 3.9$$

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

$$\frac{\text{Citations in 2022 to items published in 2020 (517) + 2021 (272) - Self Citations in 2022 to items published in 2020 (27) + 2021 (24)}}{\text{Number of citable items in 2020 (112) + 2021 (89)}} = \frac{789 - 51}{201} = 3.7$$

Journal Impact Factor Contributing Items

Citable Items (201)

TITLE	CITATION COUNT
Estimation of high-order aberrations and anisotropic magnification from cryo-EM data sets in RELION-3.1 Authors: Zivanov, Jasenko;Nakane, Takanori;Scheres, Sjors H. W. Volume: 7 Accession number: WOS:000518799300014 Document Type: Article	124
Bond-length distributions for ions bonded to oxygen: results for the transition metals and quantification of the factors underlying bond-length variation in inorganic solids Authors: Gagne, Olivier Charles;Hawthorne, Frank Christopher Volume: 7 Accession number: WOS:000548507200004 Document Type: Article	20
Electron-event representation data enable efficient cryoEM file storage with full preservation of spatial and temporal resolution Authors: Guo, Hui;Rubinstein, John L.;Franken, Erik;Deng, Yuchen;Benlekbir, Samir;Lezcano, Garbi Singla;Janssen, Bart;Yu, Lingbo;Ripstein, Zev A.;Tan, Yong Zi Volume: 7 Accession number: WOS:000568664600012 Document Type: Article	19
Crystal structures of SARS-CoV-2 ADP-ribose phosnhatase: from the apo form to ligand complexes Authors: Michalska, Karolina;Kim, Youngchang;Jedrzejczak, Robert;Maltseva, Natalia, I;Stols, Lucy;Endres, Michael;Joachimiak, Andrzej Volume: 7 Accession number: WOS:000568664600007 Document Type: Article	15
Observation of substrate diffusion and ligand binding in enzyme crystals using high-repetition-rate mix-and-inject serial crystallography Authors: Pandey, Suraj;Yefanov, Oleksandr;Zielinski, Kara A.;Bajt, Sasa;Awel, Salah;Doerner, Katarina;Frank, Matthias;Gelisio, Luca;Jernigan, Rebecca;Kirkwood, Henry; et al. Volume: 8 Accession number: WOS:000715292400006 Document Type: Article	14

Showing 1-5 rows of 201 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (291)

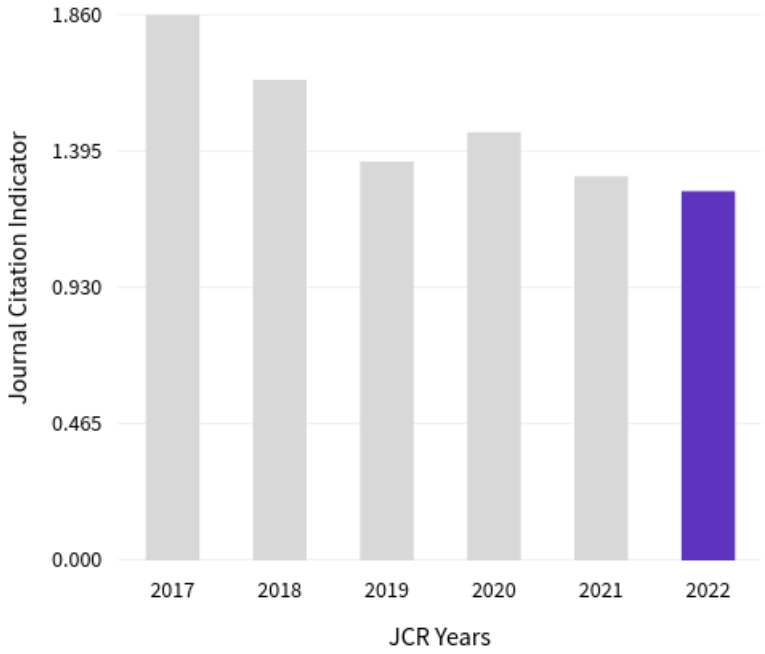
SOURCE NAME	COUNT
IUCRJ	51
NATURE COMMUNICATIONS	45
ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY	33
JOURNAL OF APPLIED CRYSTALLOGRAPHY	21
CRYSTALS	17
CRYSTENGCOMM	16
NATURE	15
CHEMICAL REVIEWS	13
COMMUNICATIONS BIOLOGY	13
CRYSTAL GROWTH & DESIGN	13
ELIFE	12
CURRENT OPINION IN STRUCTURAL BIOLOGY	11
FRONTIERS IN MOLECULAR BIOSCIENCES	9
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	9
JOURNAL OF STRUCTURAL BIOLOGY	9
SCIENCE	9
SCIENCE ADVANCES	9
SCIENTIFIC REPORTS	9
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES	8
ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE CRYSTAL ENGINEERING AND MATERIALS	8

Showing 1-20 rows of 291 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

1.26

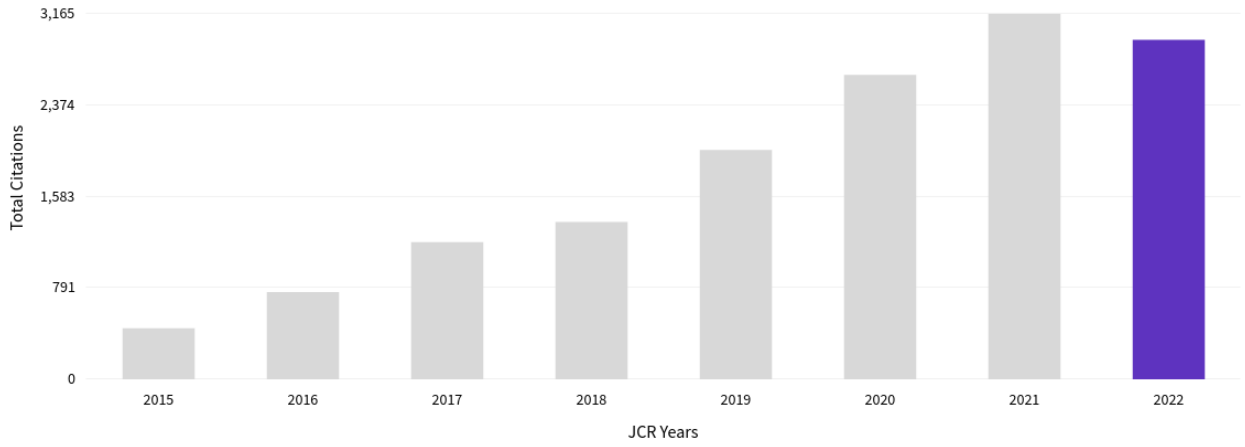
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

2,941

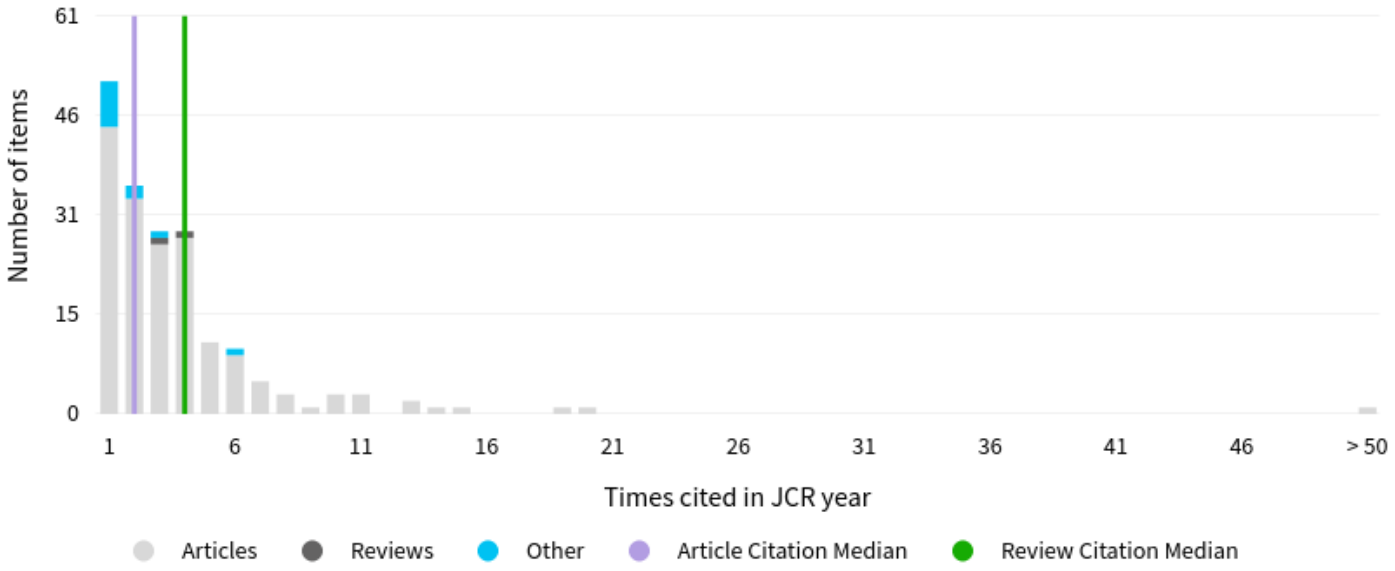
The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



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	REVIEW CITATION MEDIAN	UNLINKED CITATIONS
2	3.5	8



0 times cited

ARTICLES	REVIEWS	OTHER
27	0	25

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
271

% OF CITABLE OA
100.00%

CITABLE

GOLD OPEN ACCESS
271 / 83.13%

SUBSCRIPTION OR BRONZE
0 / 0.00%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
55 / 16.87%

Citations*

TOTAL CITABLE
834

% OF CITABLE OA
100.00%

CITABLE

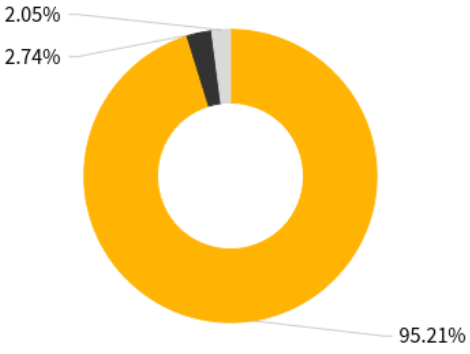
GOLD OPEN ACCESS
834 / 95.21%

SUBSCRIPTION OR BRONZE
0 / 0.00%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
24 / 2.74%

UNLINKED CITATIONS
18 / 2.05%



* Citations in 2022 to items published in (2020-2022)

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. Learn more

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

CHEMISTRY, MULTIDISCIPLINARY

74/178

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	74/178	Q2	58.7
2021	57/179	Q2	68.44
2020	59/178	Q2	67.13
2019	37/177	Q1	79.38
2018	39/172	Q1	77.62
2017	26/171	Q1	85.09
2016	27/166	Q1	84.04
2015	26/163	Q1	84.36

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

CRYSTALLOGRAPHY

4/26

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	4/26	Q1	86.5
2021	2/26	Q1	94.23
2020	4/25	Q1	86.00
2019	2/26	Q1	94.23
2018	2/26	Q1	94.23
2017	3/26	Q1	90.38
2016	1/26	Q1	98.08
2015	1/26	Q1	98.08

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

MATERIALS SCIENCE, MULTIDISCIPLINARY

146/344

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	146/344	Q2	57.7
2021	112/345	Q2	67.68
2020	107/334	Q2	68.11
2019	68/314	Q1	78.50
2018	56/293	Q1	81.06
2017	37/285	Q1	87.19
2016	33/275	Q1	88.18
2015	34/271	Q1	87.64

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

CHEMISTRY, MULTIDISCIPLINARY

40/230

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2022	40/230	Q1	82.83
2021	34/224	Q1	85.04
2020	24/219	Q1	89.27
2019	28/215	Q1	87.21
2018	23/212	Q1	89.39
2017	20/205	Q1	90.49

CATEGORY

CRYSTALLOGRAPHY

2/33

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2022	2/33	Q1	95.45
2021	3/33	Q1	92.42
2020	2/33	Q1	95.45
2019	3/33	Q1	92.42
2018	3/32	Q1	92.19
2017	1/31	Q1	98.39

CATEGORY

MATERIALS SCIENCE, MULTIDISCIPLINARY

71/424

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2022	71/424	Q1	83.37
2021	64/414	Q1	84.66
2020	47/384	Q1	87.89
2019	49/375	Q1	87.07
2018	35/361	Q1	90.44
2017	27/343	Q1	92.27

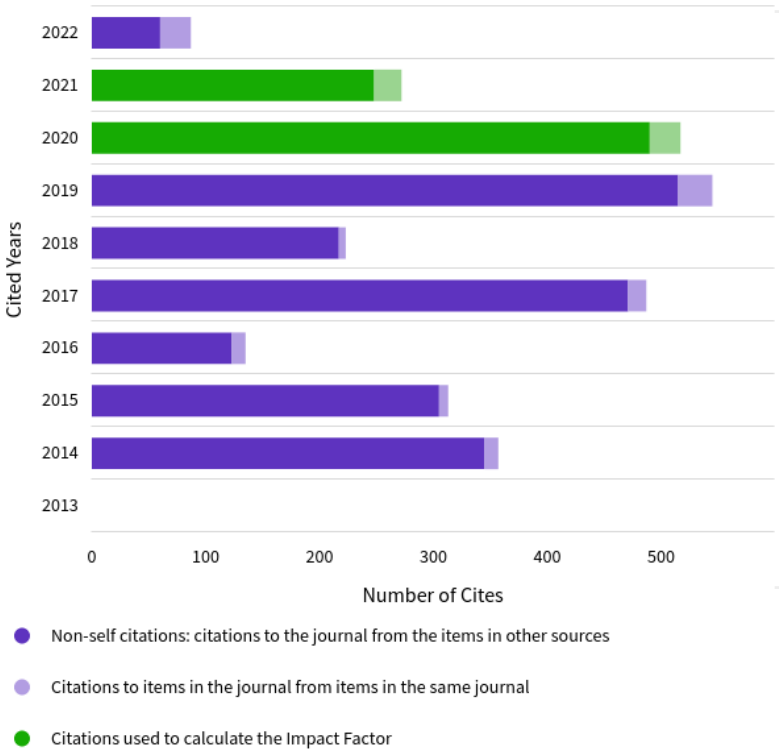
Citation network

Cited Half-life

4.2 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	NON-SELF CITATIONS	SELF CITATIONS
2,941	2,778	163



# OF CITES FROM 2022	CUMULATIVE %	# OF CITING SOURCES
2,941 citations	**100.00%**	**600 sources**
87 citations	2.96%	48 sources
272 citations	12.21%	133 sources
517 citations	29.79%	224 sources
545 citations	48.32%	185 sources
223 citations	55.90%	133 sources
487 citations	72.46%	197 sources
135 citations	77.05%	87 sources
313 citations	87.69%	152 sources
357 citations	99.83%	161 sources
0 citations	99.83%	0 sources

Previous years:
5 citations

Citing titles in all years

IUCrJ

	SOURCE NAME	COUNT
	All Others	308
1	IUCrJ	163
2	Nature Communications	116
3	Acta Crystallographica Section D-Structural Biology	104
4	CRYSTAL GROWTH & DESIGN	89
5	Journal of Molecular Structure	86
6	CRYSTENGCOMM	75
7	JOURNAL OF APPLIED CRYSTALLOGRAPHY	73
8	Crystals	59
9	NATURE	43
10	JOURNAL OF SYNCHROTRON RADIATION	42
11	CHEMICAL REVIEWS	41
12	Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials	40
13	Frontiers in Molecular Biosciences	35
14	CURRENT OPINION IN STRUCTURAL BIOLOGY	31
15	MOLECULES	31
16	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	30
17	Scientific Reports	30
18	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	28
19	Communications Biology	26
20	eLife	25

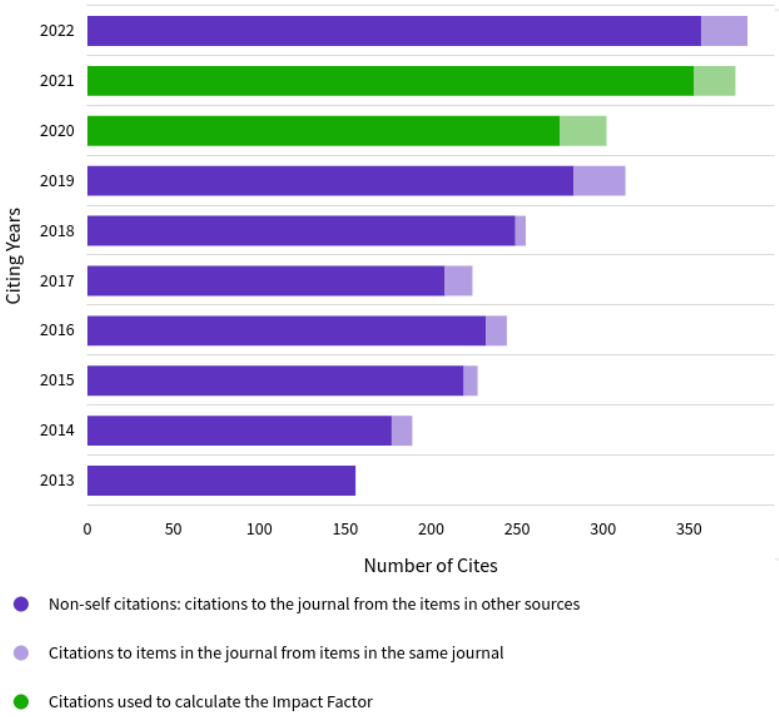
Showing 1 - 20 rows of 289 total (use export in the relevant section to download the full table)

Citing Half-life

8.3 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	NON-SELF CITATIONS	SELF CITATIONS
4,783	4,620	163



# OF CITES FROM 2022	CUMULATIVE %	# OF CITED SOURCES
4,783 citations	**100.00%**	**921 sources**
384 citations	8.03%	25 sources
377 citations	15.91%	126 sources
302 citations	22.22%	139 sources
313 citations	28.77%	148 sources
255 citations	34.10%	122 sources
224 citations	38.78%	122 sources
244 citations	43.88%	132 sources
227 citations	48.63%	108 sources
189 citations	52.58%	94 sources
156 citations	55.84%	88 sources
Previous years: 2,112 citations		

Cited titles in all years

IUCrJ

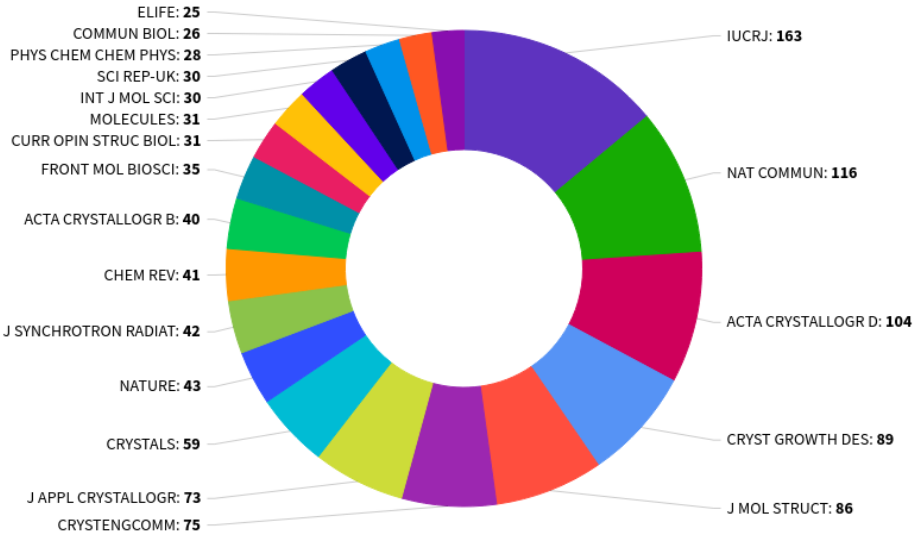
	SOURCE NAME	COUNT
	All Others	584
1	Acta Crystallographica Section D-Structural Biology	275
2	JOURNAL OF APPLIED CRYSTALLOGRAPHY	179
3	IUCrJ	163
4	Acta Crystallographica A-Foundation and Advances	123
5	Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials	121
6	NATURE	109
7	Journal of the American Chemical Society	93
8	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	93
9	SCIENCE	88
10	PHYSICAL REVIEW B	80
11	Nature Communications	76
12	CRYSTAL GROWTH & DESIGN	71
13	JOURNAL OF CHEMICAL PHYSICS	62
14	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	58
15	PHYSICAL REVIEW LETTERS	55
16	CRYSTENGCOMM	45
17	NATURE METHODS	41
18	BIOCHEMISTRY	40
19	JOURNAL OF SYNCHROTRON RADIATION	40
20	JOURNAL OF STRUCTURAL BIOLOGY	36

Showing 1 - 20 rows of 283 total (use export in the relevant section to download the full table)

Journal Citation Relationships

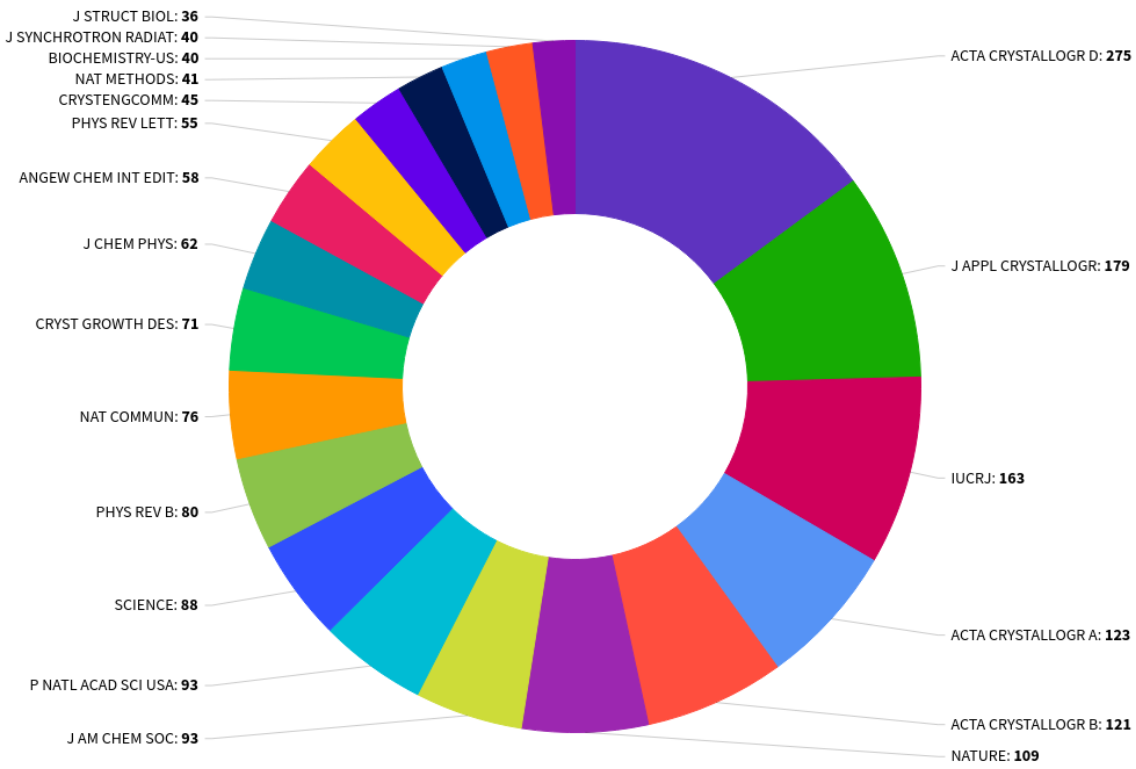
Cited Data

Top 20 journals citing IUCRJ by number of citations



Citing Data

Top 20 journals cited by IUCRJ 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

70 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2022 (A)	67	3	70	19	79%
NUMBER OF REFERENCES (B)	4,314	261	4,575	208	96%
RATIO (B/A)	64.4	87.0	65.4	10.9	

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

67.6

EDITION

Science Citation Index Expanded

MATERIALS SCIENCE, MULTIDISCIPLINARY

57.7

CHEMISTRY, MULTIDISCIPLINARY

58.7

CRYSTALLOGRAPHY

86.5

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	UNITED STATES DEPARTMENT OF ENERGY (DOE)	37
2	HELMHOLTZ ASSOCIATION	35
3	SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	19
4	DIAMOND LIGHT SOURCE	16
5	UNIVERSITY OF WARSAW	14
6	MAX PLANCK SOCIETY	13
7	AARHUS UNIVERSITY	12
-	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	12

Showing 1 - 8 rows of 445 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	USA	96
2	GERMANY (FED REP GER)	69
3	England	58
4	CHINA MAINLAND	33
5	France	27
6	Japan	26
-	Switzerland	26
8	Poland	25

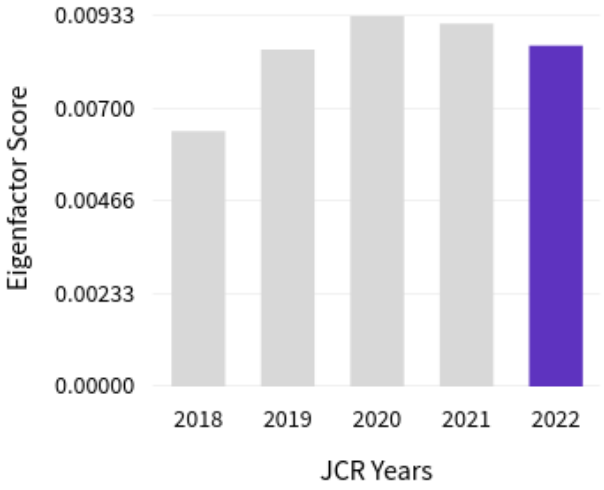
Showing 1 - 8 rows of 47 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00859

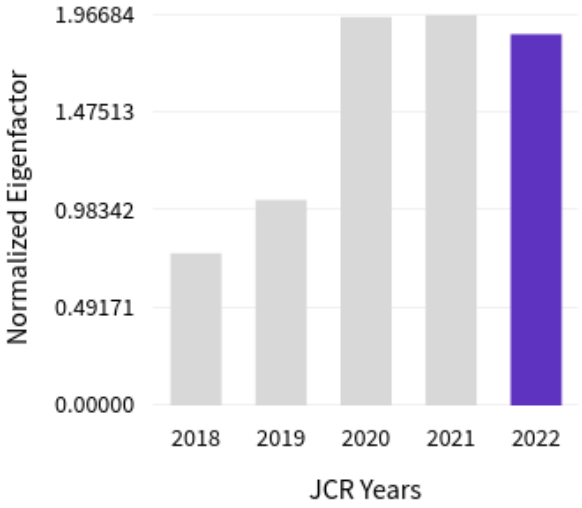
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

1.87146

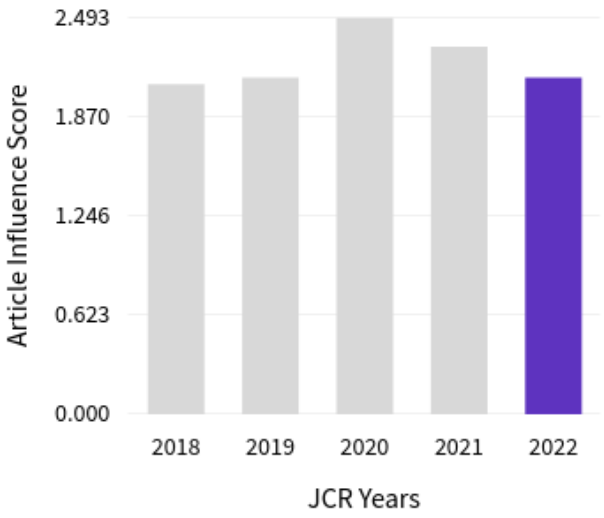
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. Learn more



Article influence score

2.118

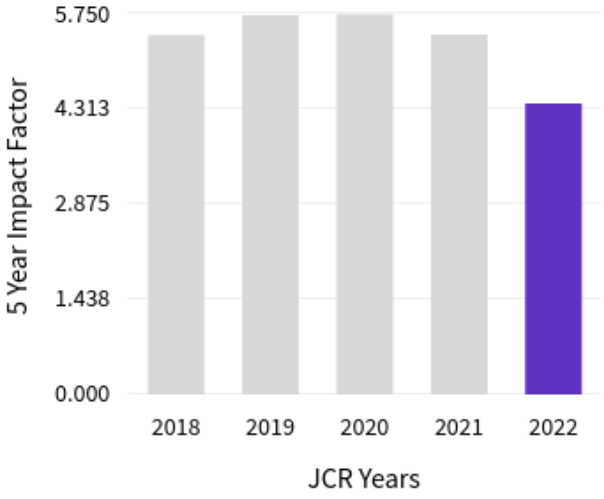
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

4.4

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.



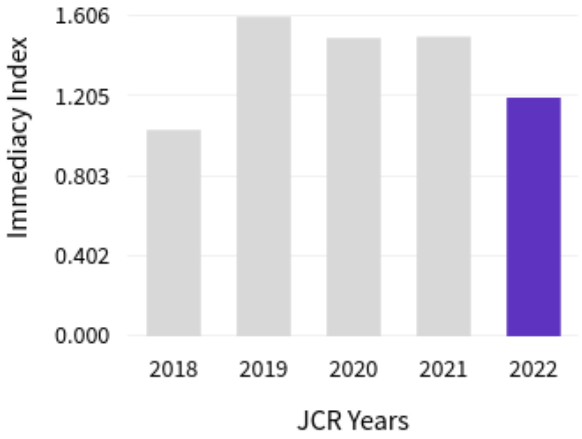
5 year Impact Factor calculation

$$\frac{\text{Citations in 2022 to items published in [2017-2021] (2,044)}}{\text{Number of citable items in [2017-2021] (462)}} = \frac{2{,}044}{462} = 4.4$$

Immediacy Index

1.2

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

Cites in 2022 to items published in 2022	87	87 / 70 = 1.2
Number of items published in 2022	70	

