

2022 Journal Performance Data for: Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials

ISSN

N/A

EISSN

2052-5206

JCR ABBREVIATION

ACTA CRYSTALLOGR B

ISO ABBREVIATION

Acta Crystallogr. Sect. B-Struct.
Sci.Cryst. Eng. Mat.

Journal Information

EDITION

Science Citation Index
Expanded (SCIE)

CATEGORY

CHEMISTRY,
MULTIDISCIPLINARY - SCIE
CRYSTALLOGRAPHY - SCIE

LANGUAGES

English

REGION

ENGLAND

1ST ELECTRONIC JCR YEAR

1997

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](#)

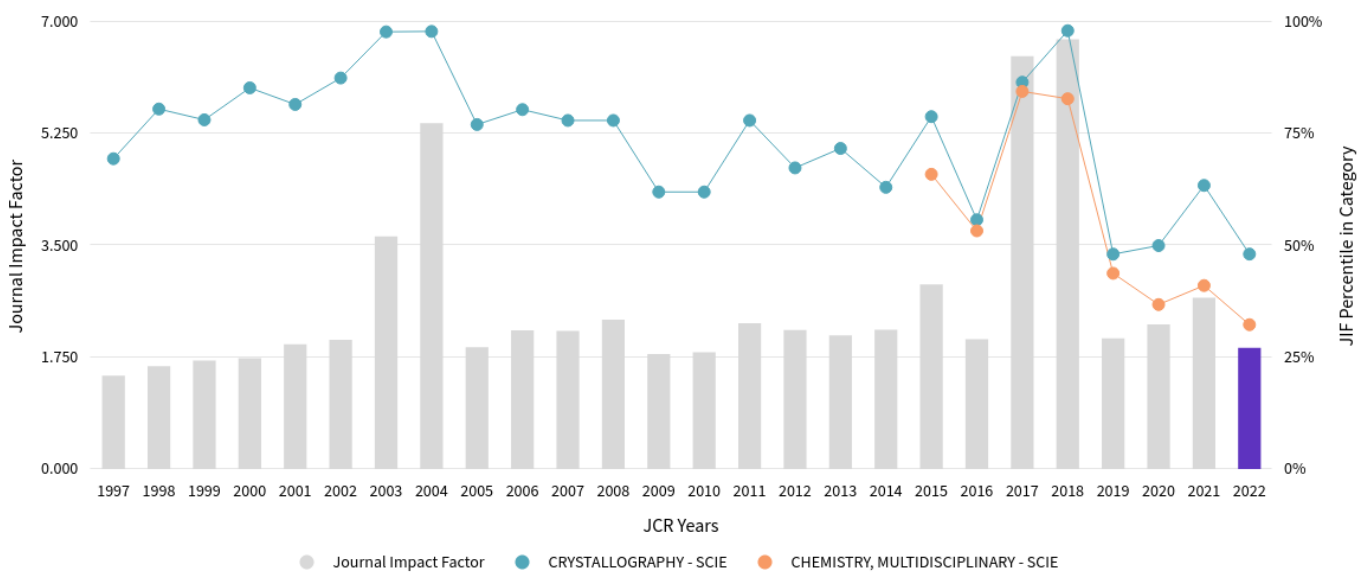
2022 JOURNAL IMPACT FACTOR

1.9

2022 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

1.8

Journal Impact Factor Trend 2022



Journal Impact Factor is calculated using the following metrics


$$\frac{\text{Citations in 2022 to items published in 2020 (216) - 2021 (177)}}{\text{Number of citable items in 2020 (107) + 2021 (102)}} = \frac{393}{209} = 1.9$$

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

$$\frac{\text{Citations in 2022 to items published in 2020 (216) + 2021 (177) - Self Citations in 2022 to items published in 2020 (7) + 2021 (20)}}{\text{Number of citable items in 2020 (107) + 2021 (102)}} = \frac{393 - 27}{209} = 1.8$$

Journal Impact Factor Contributing Items

Citable Items (209)

TITLE	CITATION COUNT
<p>A half-salamo-based pyridine-containing ligand and its novel Ni-II complexes including different auxiliary ligands: syntheses, structures, fluorescence properties, DFT calculations and Hirshfeld surface analysis Authors: Feng, Tao;Li, Li-Li;Li, Ya-Juan;Dong, Wen-Kui Volume: 77 Accession number: WOS:000618681800017 Document Type: Article</p>	25
<p>Crystallization of chiral molecular compounds: what can be learned from the Cambridge Structural Database? Authors: Rekiş, Toms Volume: 76 Accession number: WOS:000538776100003 Document Type: Article</p>	10
<p>Czochralski growth of mixed cubic sesquioxide crystals in the ternary system Lu₂O₃-Sc₂O₃-Y₂O₃ Authors: Kraenkel, Christian;Uvarova, Anastasia;Haurat, Emile;Huelshoff, Lena;Bruetzsch, Mario;Gugushev, Christo;Kalusniak, Sascha;Klimm, Detlef Volume: 77 Accession number: WOS:000683554100010 Document Type: Article</p>	10 
<p>Melting points of one- and two-component molecular crystals as effective characteristics for rational design of pharmaceutical systems Authors: Perlovich, German Volume: 76 Accession number: WOS:000562034500021 Document Type: Article</p>	10
<p>Incommensurate crystal structure of PbHfO₃ Authors: Bosak, Alexei;Svitlyk, Volodymyr;Arakcheeva, Alla;Burkovsky, Roman;Diadkin, Vadim;Roleder, Krystian;Chernyshov, Dmitry Volume: 76 Accession number: WOS:000513005400002 Document Type: Article</p>	9

Showing 1-5 rows of 209 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (149)

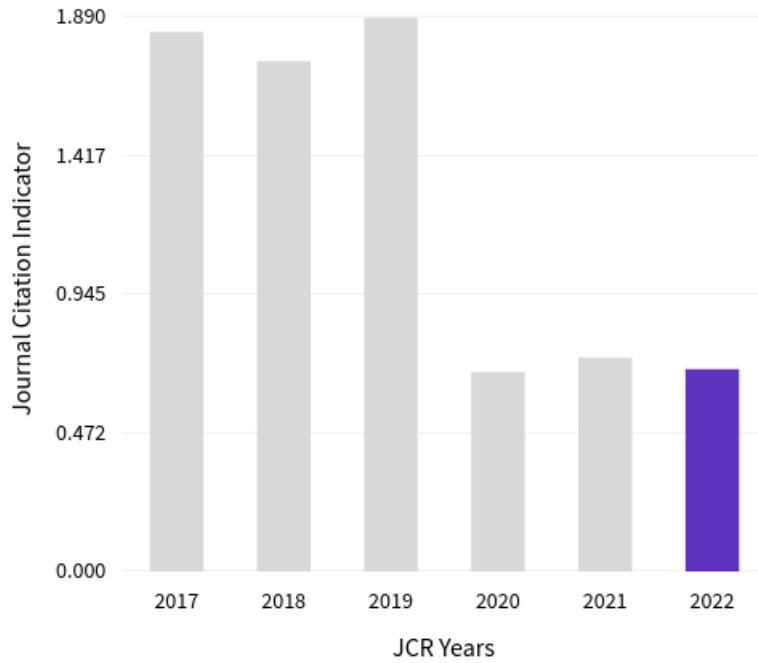
SOURCE NAME	COUNT
ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE CRYSTAL ENGINEERING AND MATERIALS	27
CRYSTAL GROWTH & DESIGN	26
JOURNAL OF MOLECULAR STRUCTURE	22
CRYSTENGGCOMM	14
MOLECULES	11
CHEMISTRY-A EUROPEAN JOURNAL	10
INORGANICA CHIMICA ACTA	9
PHYSICAL REVIEW B	9
CRYSTALS	8
JOURNAL OF PHYSICAL CHEMISTRY C	8
JOURNAL OF APPLIED CRYSTALLOGRAPHY	7
JOURNAL OF STRUCTURAL CHEMISTRY	6
PHYSICAL CHEMISTRY CHEMICAL PHYSICS	6
POLYHEDRON	6
IUCRJ	5
JOURNAL OF ALLOYS AND COMPOUNDS	5
JOURNAL OF COORDINATION CHEMISTRY	5
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	5
MATERIALS	5
APPLIED ORGANOMETALLIC CHEMISTRY	4

Showing 1-20 rows of 149 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.69

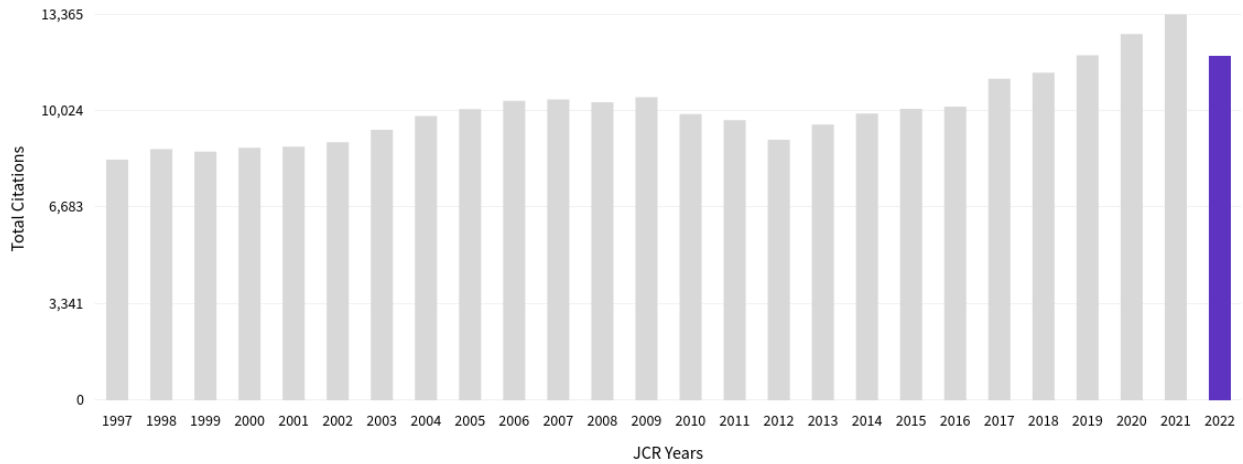
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

11,932

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

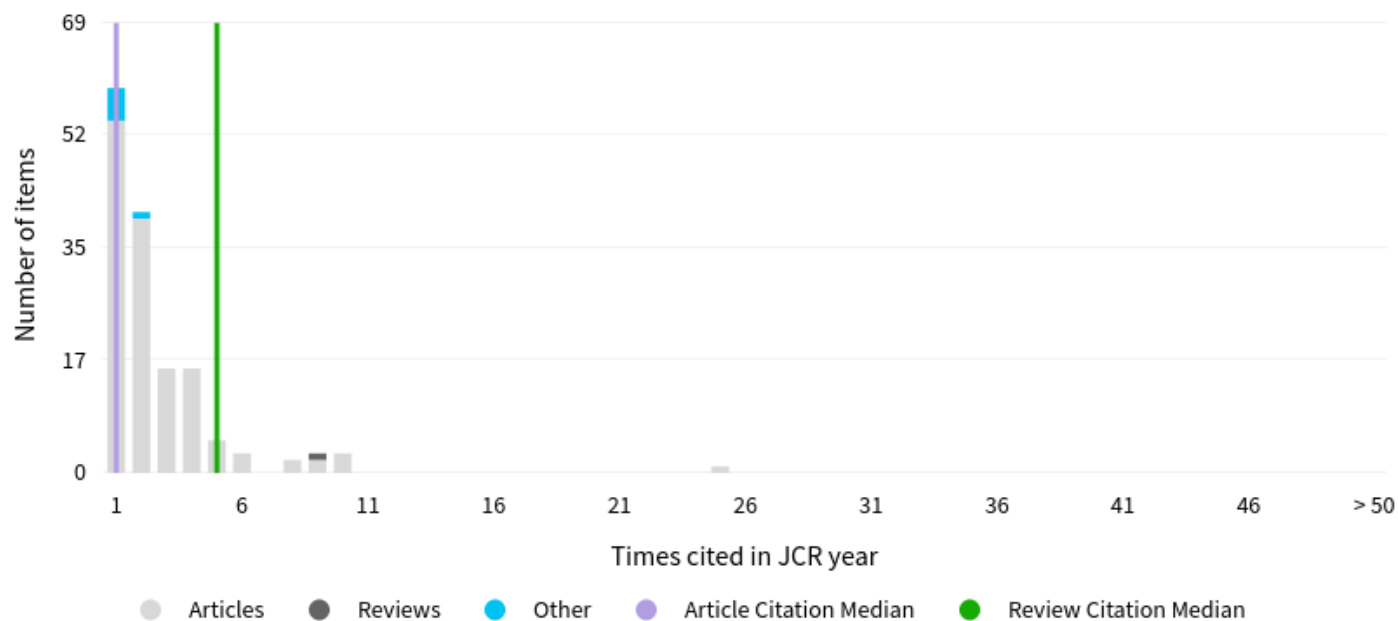
1

REVIEW CITATION MEDIAN

4.5

UNLINKED CITATIONS

1



0 times cited

ARTICLES

66

REVIEWS

1

OTHER

14

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 % OF CITABLE OA

293 **23.21%**

CITABLE

● GOLD OPEN ACCESS

68 / 20.99%

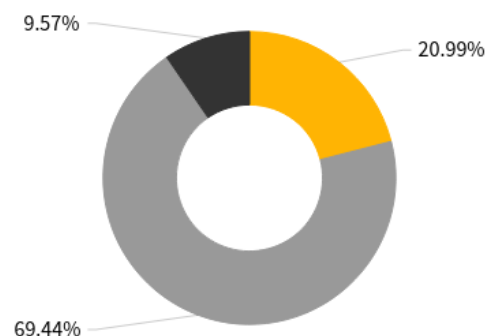
● SUBSCRIPTION OR BRONZE

225 / 69.44%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

31 / 9.57%



Citations*

TOTAL CITABLE % OF CITABLE OA

435 **22.76%**

CITABLE

● GOLD OPEN ACCESS

99 / 22.20%

● SUBSCRIPTION OR BRONZE

336 / 75.34%

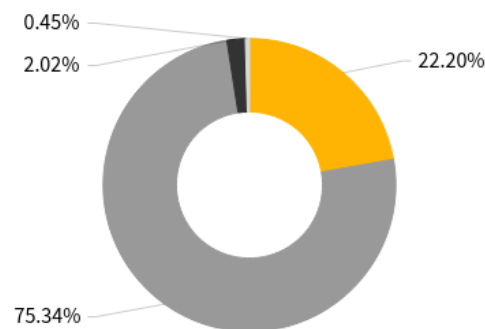
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

9 / 2.02%

● UNLINKED CITATIONS

2 / 0.45%



* 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

121/178

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	121/178	Q3	32.3	
2021	106/179	Q3	41.06	
2020	113/178	Q3	36.80	
2019	100/177	Q3	43.79	
2018	30/172	Q1	82.85	
2017	27/171	Q1	84.50	
2016	78/166	Q2	53.31	
2015	56/163	Q2	65.95	
2014	N/A	N/A	N/A	
2013	N/A	N/A	N/A	
2012	N/A	N/A	N/A	
2011	N/A	N/A	N/A	
2010	N/A	N/A	N/A	
2009	N/A	N/A	N/A	
2008	N/A	N/A	N/A	
2007	N/A	N/A	N/A	
2006	N/A	N/A	N/A	
2005	N/A	N/A	N/A	
2004	N/A	N/A	N/A	
2003	N/A	N/A	N/A	
2002	N/A	N/A	N/A	
2001	N/A	N/A	N/A	
2000	N/A	N/A	N/A	
1999	N/A	N/A	N/A	
1998	N/A	N/A	N/A	
1997	N/A	N/A	N/A	

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

CRYSTALLOGRAPHY

14/26

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	14/26	Q3	48.1	
2021	10/26	Q2	63.46	
2020	13/25	Q3	50.00	
2019	14/26	Q3	48.08	
2018	1/26	Q1	98.08	
2017	4/26	Q1	86.54	
2016	12/26	Q2	55.77	
2015	6/26	Q1	78.85	
2014	9/23	Q2	63.04	
2013	7/23	Q2	71.74	
2012	8/23	Q2	67.39	
2011	6/25	Q1	78.00	
2010	10/25	Q2	62.00	
2009	10/25	Q2	62.00	
2008	6/25	Q1	78.00	
2007	6/25	Q1	78.00	
2006	5/23	Q1	80.43	
2005	6/24	Q1	77.08	
2004	1/24	Q1	97.92	
2003	1/23	Q1	97.83	
2002	3/20	Q1	87.50	
2001	4/19	Q1	81.58	
2000	3/17	Q1	85.29	
1999	4/16	Q1	78.13	
1998	4/18	Q1	80.56	
1997	6/18	Q2	69.44	

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

79/230

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	79/230	Q2	65.87	
2021	73/224	Q2	67.63	
2020	73/219	Q2	66.89	
2019	20/215	Q1	90.93	
2018	22/212	Q1	89.86	
2017	21/205	Q1	90.00	

CATEGORY

CRYSTALLOGRAPHY

12/33

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	12/33	Q2	65.15	
2021	12/33	Q2	65.15	
2020	13/33	Q2	62.12	
2019	1/33	Q1	98.48	
2018	2/32	Q1	95.31	
2017	2/31	Q1	95.16	

Citation network

Cited Half-life

25.9 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

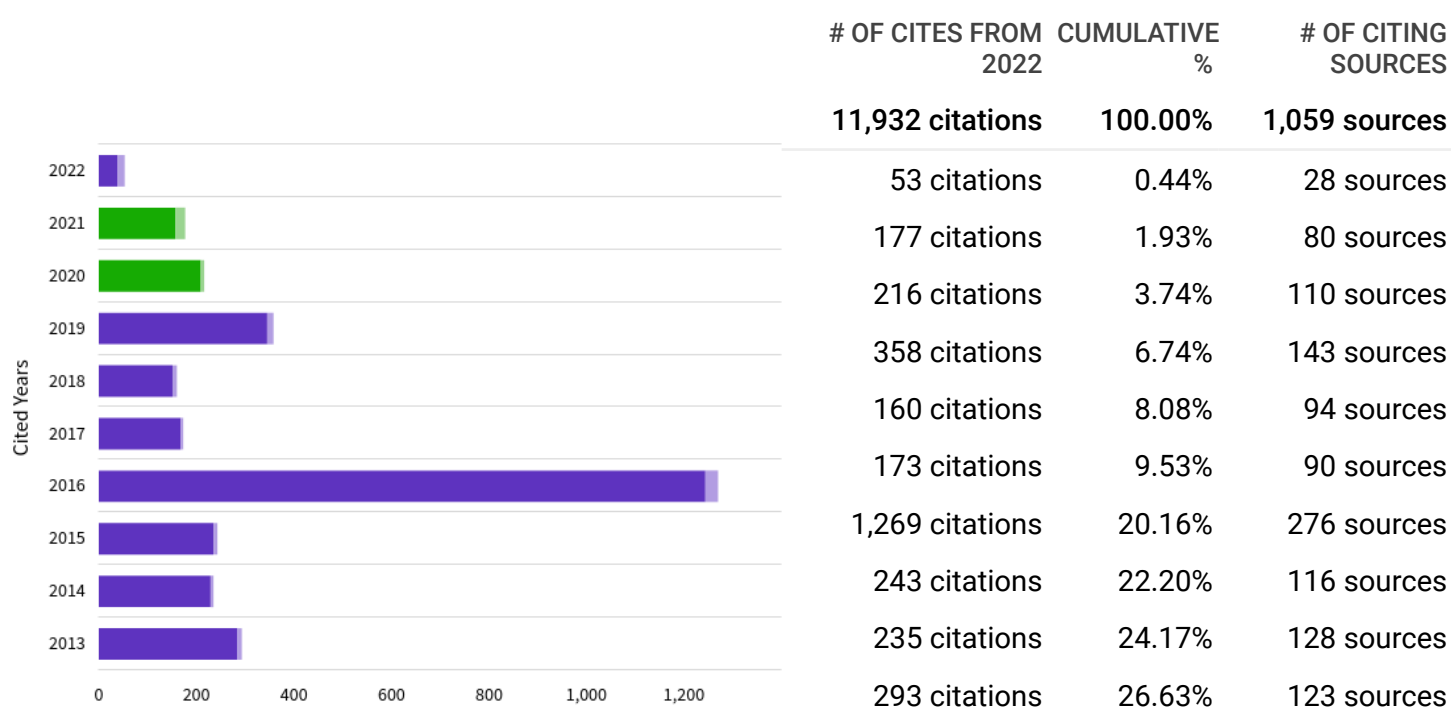
11,932

NON-SELF CITATIONS

11,703

SELF CITATIONS

229



Previous years:
8,755 citations

● Non-self citations: citations to the journal from the items in other sources

● Citations to items in the journal from items in the same journal

● Citations used to calculate the Impact Factor

Citing titles in all years

Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials

	SOURCE NAME	COUNT
	All Others	394
1	CRYSTAL GROWTH & DESIGN	416
2	ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE	387
3	INORGANIC CHEMISTRY	365
4	Journal of Molecular Structure	324
5	CRYSTENGGCOMM	290
6	Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials	229
7	MOLECULES	193
8	CHEMISTRY OF MATERIALS	190
9	DALTON TRANSACTIONS	188
10	Crystals	179
11	JOURNAL OF SOLID STATE CHEMISTRY	173
12	Journal of Physical Chemistry C	166
13	PHYSICAL REVIEW B	160
14	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	158
15	Journal of Alloys and Compounds	151
16	MINERALOGICAL MAGAZINE	135
17	ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY	127
18	Materials	122
19	ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE	122
20	IUCrJ	121

Showing 1 - 20 rows of 653 total (use export in the relevant section to download the full table)

Citing Half-life

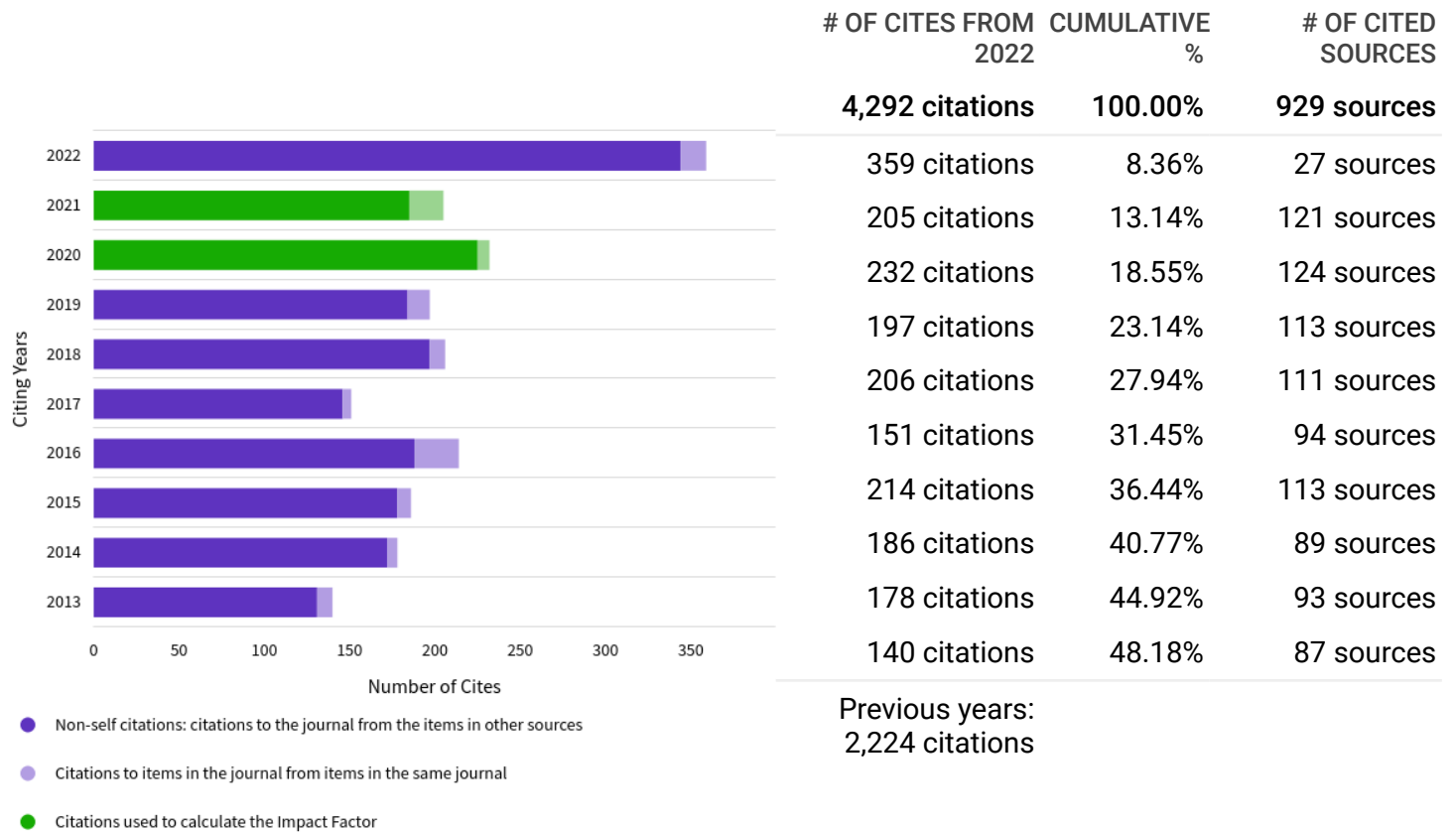
10.5 years

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
4,292

NON-SELF CITATIONS
4,063

SELF CITATIONS
229



Cited titles in all years

Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials

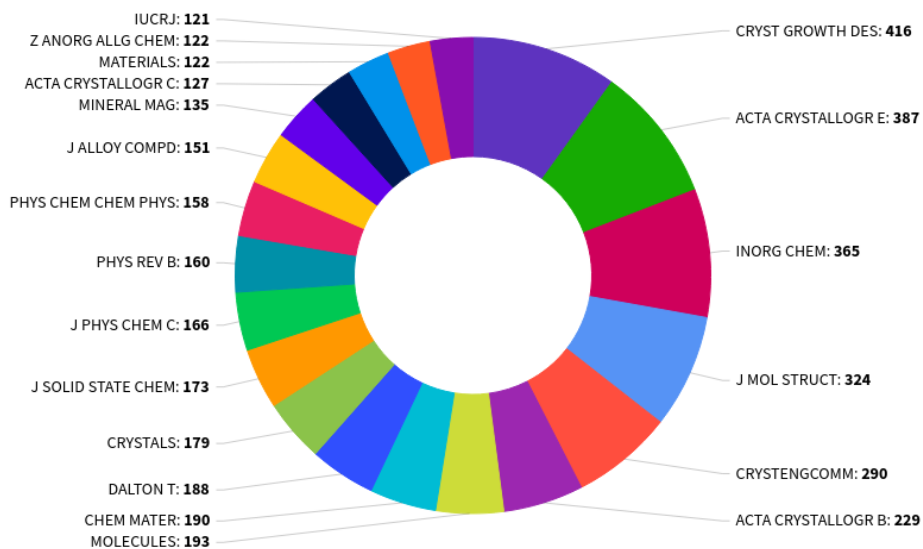
	SOURCE NAME	COUNT
	All Others	598
1	Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials	229
2	JOURNAL OF APPLIED CRYSTALLOGRAPHY	207
3	Acta Crystallographica A-Foundation and Advances	168
4	CRYSTAL GROWTH & DESIGN	116
5	CRYSTENGGCOMM	99
6	PHYSICAL REVIEW B	94
7	ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY	76
8	Journal of the American Chemical Society	66
9	Zeitschrift fur Kristallographie-Crystalline Materials	64
10	JOURNAL OF CHEMICAL PHYSICS	62
11	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	55
12	PHYSICAL REVIEW LETTERS	47
13	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	43
14	INORGANIC CHEMISTRY	41
15	IUCrJ	40
16	JOURNAL OF SOLID STATE CHEMISTRY	35
17	CHEMICAL COMMUNICATIONS	32
18	Journal of Physical Chemistry C	31
19	CHEMISTRY-A EUROPEAN JOURNAL	28
20	JOURNAL OF PHYSICS-CONDENSED MATTER	28

Showing 1 - 20 rows of 261 total (use export in the relevant section to download the full table)

Journal Citation Relationships

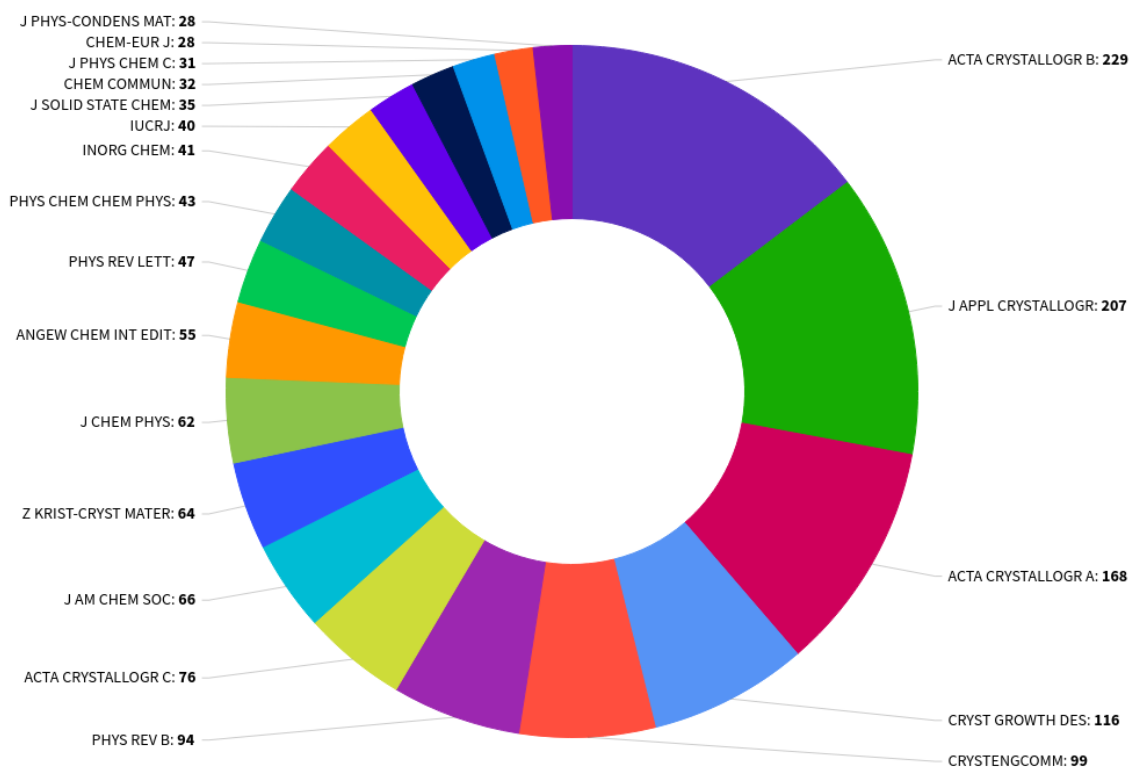
Cited Data

Top 20 journals citing ACTA CRYSTALLOGR B by number of citations



Citing Data

Top 20 journals cited by ACTA CRYSTALLOGR B 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](#)

84 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2022 (A)	84	0	84	11	88%
NUMBER OF REFERENCES (B)	4,170	0	4,170	122	97%
RATIO (B/A)	49.6	N/A	49.6	11.1	

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

40.2

EDITION

Science Citation Index Expanded

CHEMISTRY, MULTIDISCIPLINARY

32.3

CRYSTALLOGRAPHY

48.1

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	RUSSIAN ACADEMY OF SCIENCES	49	
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	30	
3	POLISH ACADEMY OF SCIENCES	18	
4	UNIVERSITE DE LORRAINE	16	
5	LOMONOSOV MOSCOW STATE UNIVERSITY	15	
6	EUROPEAN SYNCHROTRON RADIATION FACILITY (ESRF)	14	
-	HELMHOLTZ ASSOCIATION	14	
-	SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	14	

Showing 1 - 8 rows of 449 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	Russia	59	
2	Poland	54	
3	France	51	
-	GERMANY (FED REP GER)	51	
5	USA	34	
6	England	33	
7	Switzerland	24	
8	CHINA MAINLAND	23	

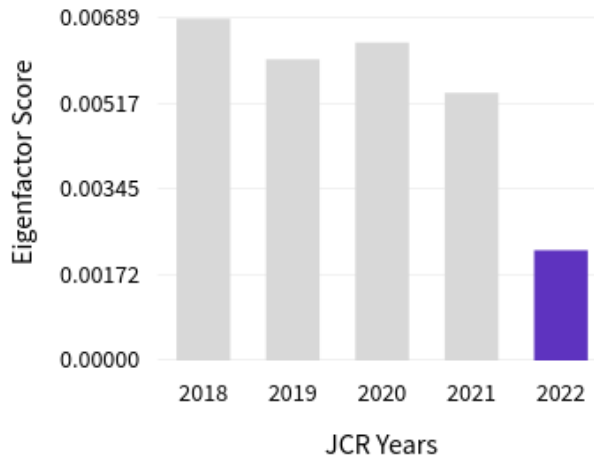
Showing 1 - 8 rows of 59 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00222

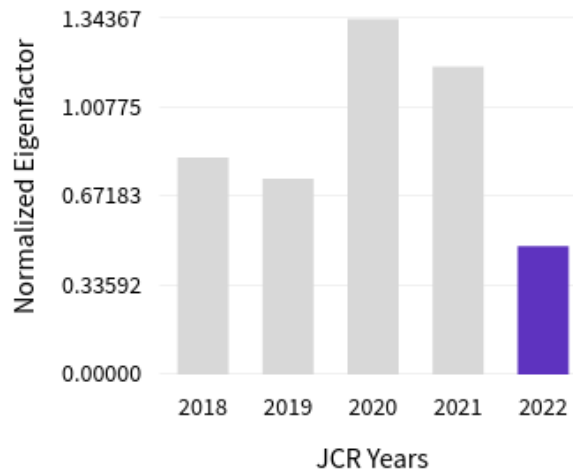
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.48478

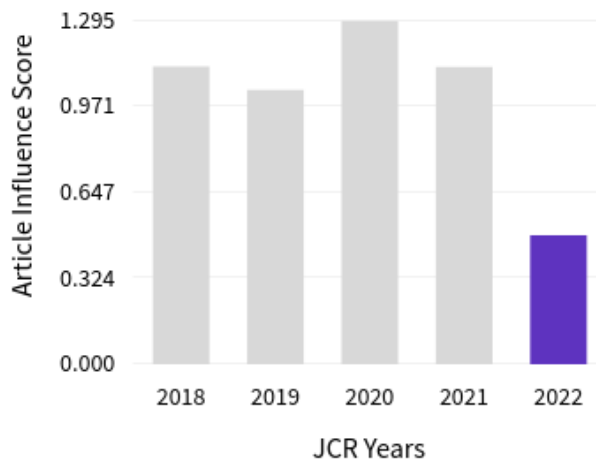
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)



Article influence score

0.487

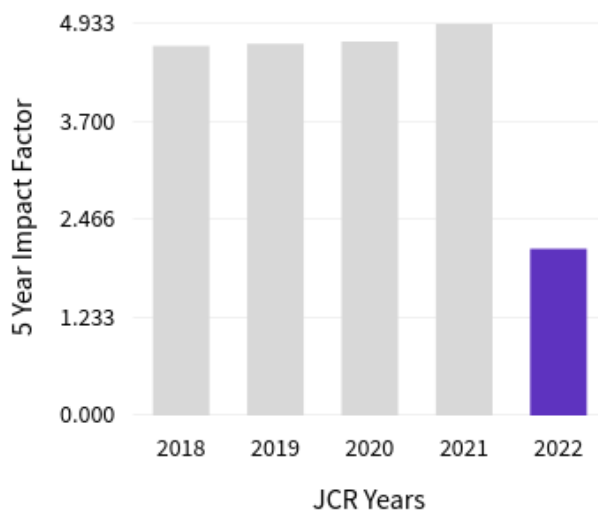
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

2.1

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

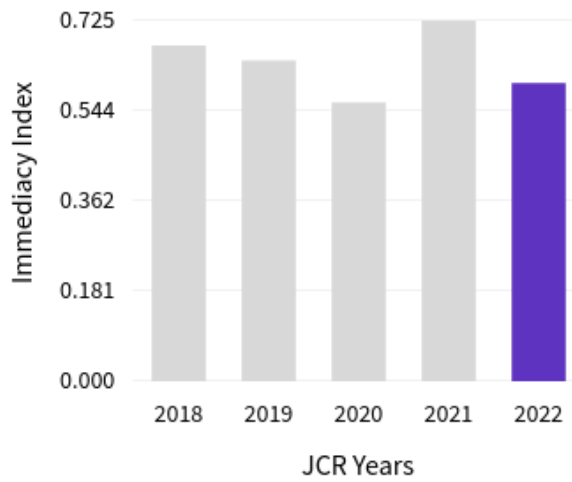
Citations in 2022 to items published in [2017-2021] (1,084)	=	1,084	=	2.1
Number of citable items in [2017-2021] (521)		521		

Immediacy Index

0.6

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	53	
<hr/>		53 / 84 = 0.6
Number of items published in 2022	84	