

2022 Journal Performance Data for: Acta Crystallographica Section D- Structural Biology

ISSN	EISSN
2059-7983	2059-7983
JCR ABBREVIATION	ISO ABBREVIATION
ACTA CRYSTALLOGR D	Acta Crystallogr. Sect. D-Struct. Biol.

Journal Information

EDITION	CATEGORY	
Science Citation Index Expanded (SCIE)	BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE CRYSTALLOGRAPHY - SCIE BIOPHYSICS - SCIE BIOCHEMICAL RESEARCH METHODS - SCIE	
LANGUAGES	REGION	1ST ELECTRONIC JCR YEAR
English	ENGLAND	1997

Publisher Information

PUBLISHER	ADDRESS	PUBLICATION FREQUENCY
INT UNION CRYSTALLOGRAPHY	2 ABBEY SQ, CHESTER CH1 2HU, ENGLAND	12 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](#)

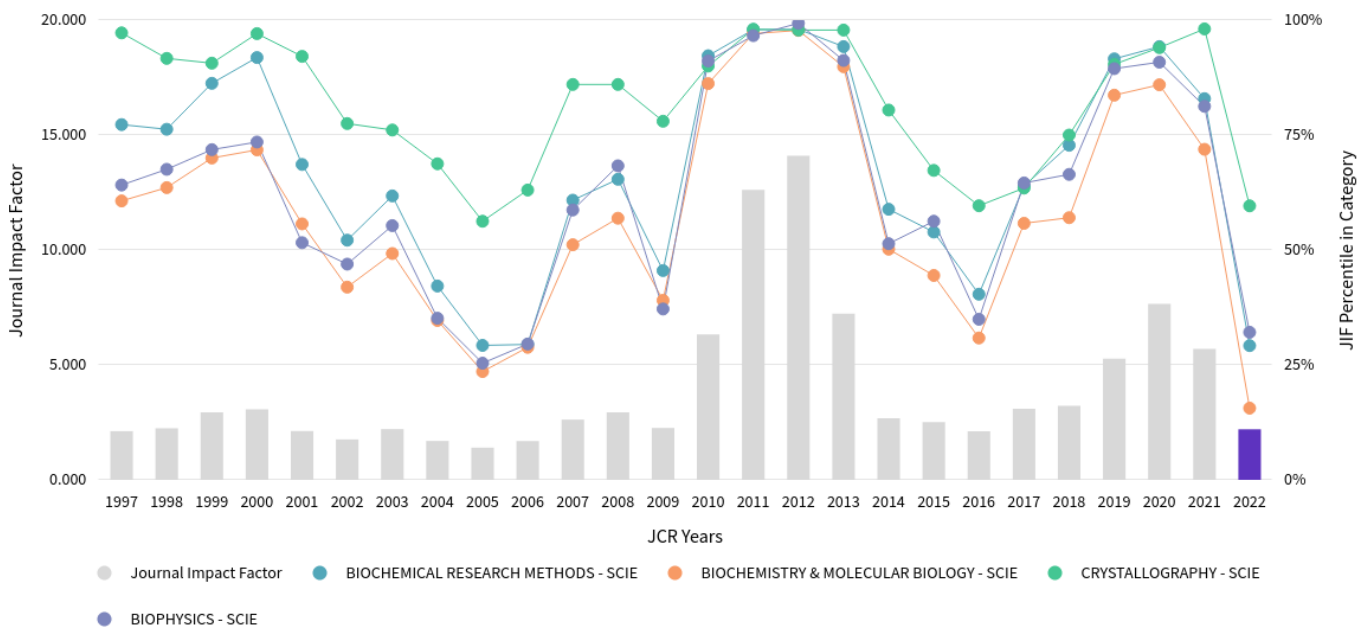
2022 JOURNAL IMPACT FACTOR

2.2

2022 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

1.9

Journal Impact Factor Trend 2022



Journal Impact Factor is calculated using the following metrics






$$\frac{\text{Citations in 2022 to items published in 2020 (276) - 2021 (279)}}{\text{Number of citable items in 2020 (118) + 2021 (137)}} = \frac{555}{255} = 2.2$$

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

$$\frac{\text{Citations in 2022 to items published in 2020 (276) + 2021 (279) - Self Citations in 2022 to items published in 2020 (34) + 2021 (30)}}{\text{Number of citable items in 2020 (118) + 2021 (137)}} = \frac{555 - 64}{255} = 1.9$$

Journal Impact Factor Contributing Items

Citable Items (255)

TITLE	CITATION COUNT
Amyloid structure determination in RELION-3.1 Authors: Scheres, Sjors H. W. Volume: 76 Accession number: WOS:000538105600002 Document Type: Article	35 
Scaling diffraction data in the DIALS software package: algorithms and new approaches for multi-crystal scaling Authors: Beilsten-Edmands, James;Winter, Graeme;Gildea, Richard;Parkhurst, James;Waterman, David;Evans, Gwyndaf Volume: 76 Accession number: WOS:000524555300010 Document Type: Article	22 
Crystal structures of the selenoprotein glutathione peroxidase 4 in its apo form and in complex with the covalently bound inhibitor ML162 Authors: Moosmayer, Dieter;Schreiber, Stuart L.;Gradl, Stefan;Hillig, Roman C.;Hilpmann, Andre;Hoffmann, Jutta;Schnirch, Lennart;Zimmermann, Katja;Badock, Volker;Furst, Laura; et al. Volume: 77 Accession number: WOS:000617680200011 Document Type: Article	18 
Cryo-EM single-particle structure refinement and map calculation using Servalcat Authors: Yamashita, Keitaro;Palmer, Colin M.;Burnley, Tom;Murshudov, Garib N. Volume: 77 Accession number: WOS:000703879300007 Document Type: Article	14 
Combining high throughput and high quality for cryo-electron microscopy data collection Authors: Weis, Felix;Hagen, Wim J. H. Volume: 76 Accession number: WOS:000567418000004 Document Type: Article	11 

Showing 1-5 rows of 255 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (215)

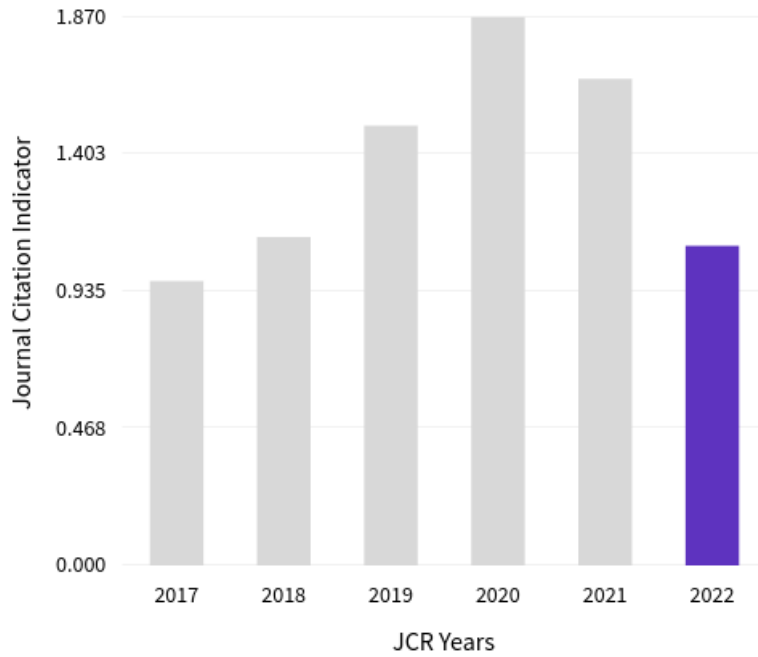
SOURCE NAME	COUNT
ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY	64
NATURE COMMUNICATIONS	30
IUCRJ	16
FARADAY DISCUSSIONS	14
CURRENT OPINION IN STRUCTURAL BIOLOGY	13
MOLECULAR CELL	12
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	11
JOURNAL OF STRUCTURAL BIOLOGY	11
FRONTIERS IN MOLECULAR BIOSCIENCES	10
NUCLEIC ACIDS RESEARCH	10
JOURNAL OF BIOLOGICAL CHEMISTRY	9
ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS	8
JOURNAL OF MEDICINAL CHEMISTRY	8
NATURE	8
SCIENCE ADVANCES	8
CHEMICAL REVIEWS	7
JOURNAL OF APPLIED CRYSTALLOGRAPHY	7
NATURE METHODS	6
BIOMOLECULES	5
COMMUNICATIONS BIOLOGY	5

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Journal Citation Indicator (JCI)

1.09

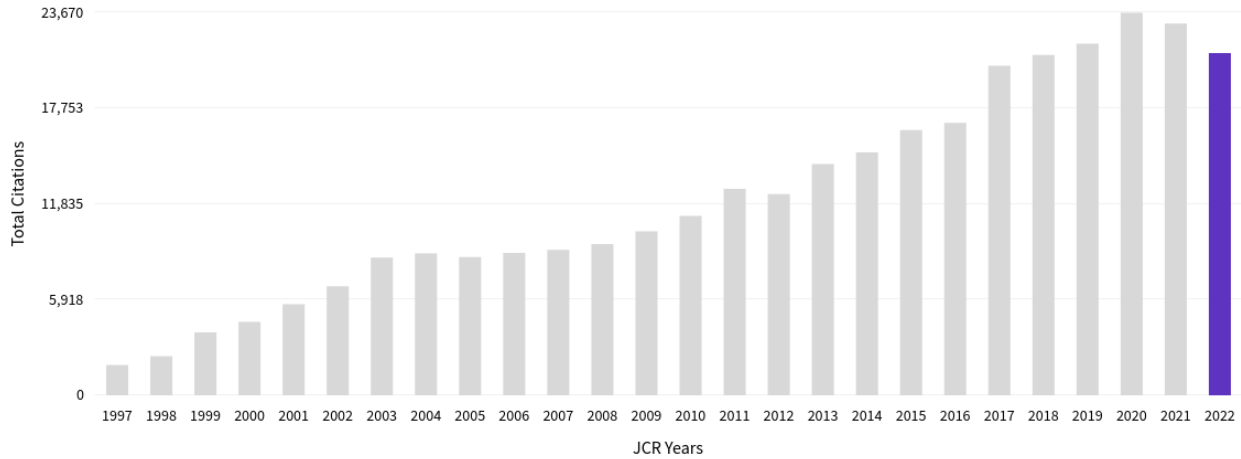
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

21,180

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

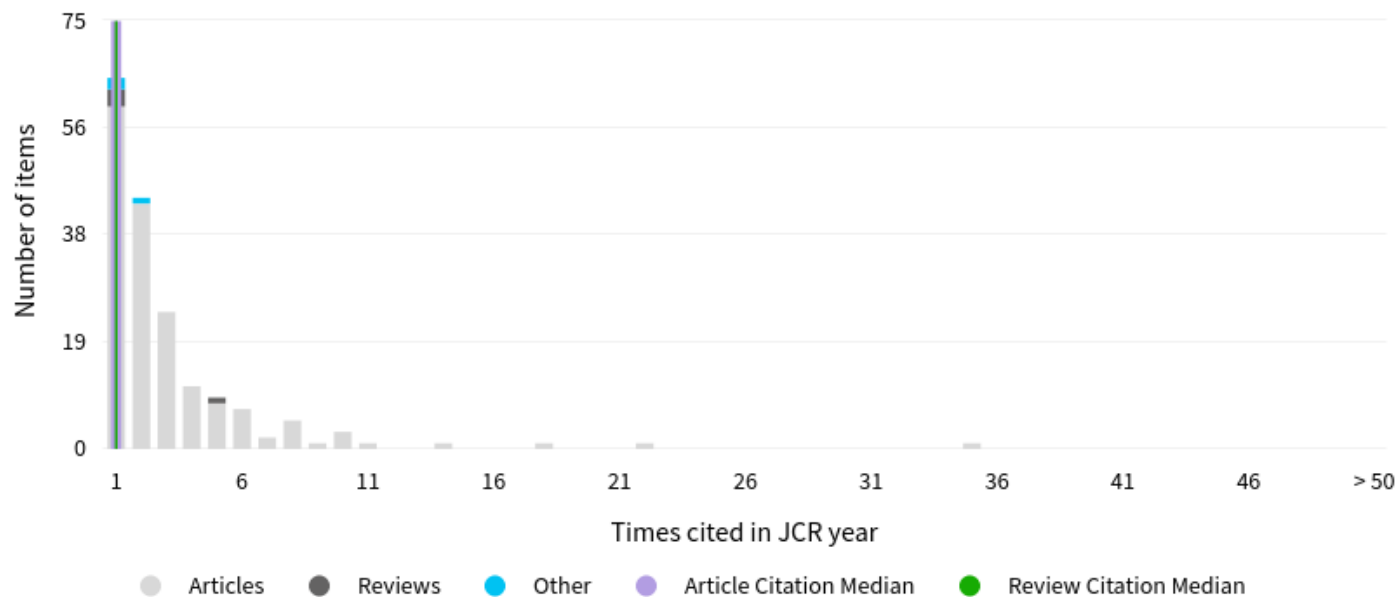
1

REVIEW CITATION MEDIAN

1

UNLINKED CITATIONS

6



0 times cited

ARTICLES

82

REVIEWS

0

OTHER

17

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

381

% OF CITABLE OA

60.63%

CITABLE

● GOLD OPEN ACCESS

231 / 57.18%

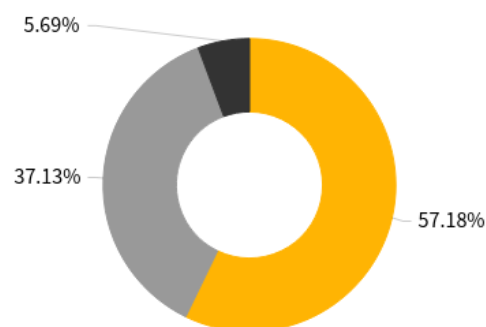
● SUBSCRIPTION OR BRONZE

150 / 37.13%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

23 / 5.69%



Citations*

TOTAL CITABLE

648

% OF CITABLE OA

80.09%

CITABLE

● GOLD OPEN ACCESS

519 / 78.88%

● SUBSCRIPTION OR BRONZE

129 / 19.60%

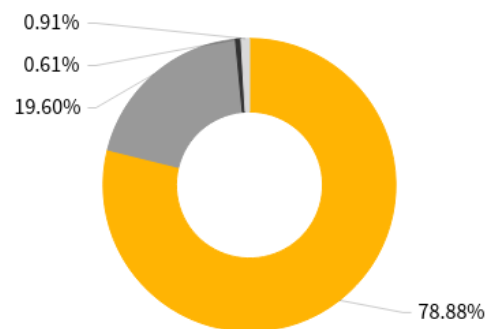
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

4 / 0.61%

● UNLINKED CITATIONS

6 / 0.91%



* 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

BIOCHEMICAL RESEARCH METHODS

55/77

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	55/77	Q3	29.2	
2021	14/79	Q1	82.91	
2020	5/78	Q1	94.23	
2019	7/77	Q1	91.56	
2018	22/79	Q2	72.78	
2017	29/79	Q2	63.92	
2016	47/78	Q3	40.38	
2015	36/77	Q2	53.90	
2014	33/79	Q2	58.86	
2013	5/78	Q1	94.23	
2012	2/75	Q1	98.00	
2011	2/72	Q1	97.92	
2010	6/71	Q1	92.25	
2009	37/67	Q3	45.52	
2008	23/65	Q2	65.38	
2007	24/60	Q2	60.83	
2006	40/56	Q3	29.46	
2005	38/53	Q3	29.25	
2004	30/51	Q3	42.16	
2003	20/51	Q2	61.76	
2002	23/47	Q2	52.13	
2001	14/43	Q2	68.60	
2000	4/43	Q1	91.86	
1999	6/40	Q1	86.25	
1998	10/40	Q1	76.25	
1997	8/33	Q1	77.27	

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

BIOCHEMISTRY & MOLECULAR BIOLOGY

241/285

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	241/285	Q4	15.6	
2021	84/297	Q2	71.89	
2020	42/295	Q1	85.93	
2019	49/297	Q1	83.67	
2018	129/299	Q2	57.02	
2017	130/293	Q2	55.80	
2016	201/290	Q3	30.86	
2015	161/289	Q3	44.46	
2014	145/290	Q2	50.17	
2013	30/291	Q1	89.86	
2012	7/290	Q1	97.76	
2011	9/290	Q1	97.07	
2010	40/286	Q1	86.19	
2009	173/283	Q3	39.05	
2008	119/275	Q2	56.91	
2007	129/263	Q2	51.14	
2006	187/262	Q3	28.82	
2005	200/261	Q4	23.56	
2004	171/261	Q3	34.67	
2003	133/261	Q3	49.23	
2002	155/266	Q3	41.92	
2001	137/308	Q2	55.68	
2000	88/310	Q2	71.77	
1999	89/295	Q2	70.00	
1998	108/295	Q2	63.56	
1997	100/253	Q2	60.67	

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

BIOPHYSICS

48/70

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	48/70	Q3	32.1	
2021	14/72	Q1	81.25	
2020	7/71	Q1	90.85	
2019	8/71	Q1	89.44	
2018	25/73	Q2	66.44	
2017	26/72	Q2	64.58	
2016	48/73	Q3	34.93	
2015	32/72	Q2	56.25	
2014	36/73	Q2	51.37	
2013	7/74	Q1	91.22	
2012	1/72	Q1	99.31	
2011	3/74	Q1	96.62	
2010	7/73	Q1	91.10	
2009	47/74	Q3	37.16	
2008	23/71	Q2	68.31	
2007	29/69	Q2	58.70	
2006	47/66	Q3	29.55	
2005	49/65	Q4	25.38	
2004	42/64	Q3	35.16	
2003	30/66	Q2	55.30	
2002	35/65	Q3	46.92	
2001	31/63	Q2	51.59	
2000	18/66	Q2	73.48	
1999	16/55	Q2	71.82	
1998	19/57	Q2	67.54	
1997	17/46	Q2	64.13	

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

CRYSTALLOGRAPHY

11/26

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	11/26	Q2	59.6	
2021	1/26	Q1	98.08	
2020	2/25	Q1	94.00	
2019	3/26	Q1	90.38	
2018	7/26	Q2	75.00	
2017	10/26	Q2	63.46	
2016	11/26	Q2	59.62	
2015	9/26	Q2	67.31	
2014	5/23	Q1	80.43	
2013	1/23	Q1	97.83	
2012	1/23	Q1	97.83	
2011	1/25	Q1	98.00	
2010	3/25	Q1	90.00	
2009	6/25	Q1	78.00	
2008	4/25	Q1	86.00	
2007	4/25	Q1	86.00	
2006	9/23	Q2	63.04	
2005	11/24	Q2	56.25	
2004	8/24	Q2	68.75	
2003	6/23	Q2	76.09	
2002	5/20	Q1	77.50	
2001	2/19	Q1	92.11	
2000	1/17	Q1	97.06	
1999	2/16	Q1	90.63	
1998	2/18	Q1	91.67	
1997	1/18	Q1	97.22	

Rank by Journal Citation Indicator (JCI)

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CATEGORY

BIOCHEMICAL RESEARCH METHODS

14/83

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	14/83	Q1	83.73	
2021	5/84	Q1	94.64	
2020	5/82	Q1	94.51	
2019	5/82	Q1	94.51	
2018	19/82	Q1	77.44	
2017	25/79	Q2	68.99	

CATEGORY

BIOCHEMISTRY & MOLECULAR BIOLOGY

62/315

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	62/315	Q1	80.48	
2021	24/322	Q1	92.70	
2020	22/311	Q1	93.09	
2019	34/310	Q1	89.19	
2018	63/308	Q1	79.71	
2017	92/306	Q2	70.10	

CATEGORY

BIOPHYSICS

9/74

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	9/74	Q1	88.51	
2021	4/76	Q1	95.39	
2020	3/74	Q1	96.62	
2019	5/74	Q1	93.92	
2018	12/73	Q1	84.25	
2017	20/73	Q2	73.29	

CATEGORY

CRYSTALLOGRAPHY

4/33

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	4/33	Q1	89.39	
2021	1/33	Q1	98.48	
2020	1/33	Q1	98.48	
2019	2/33	Q1	95.45	
2018	7/32	Q1	79.69	
2017	8/31	Q2	75.81	

Citation network

Cited Half-life

12.4 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

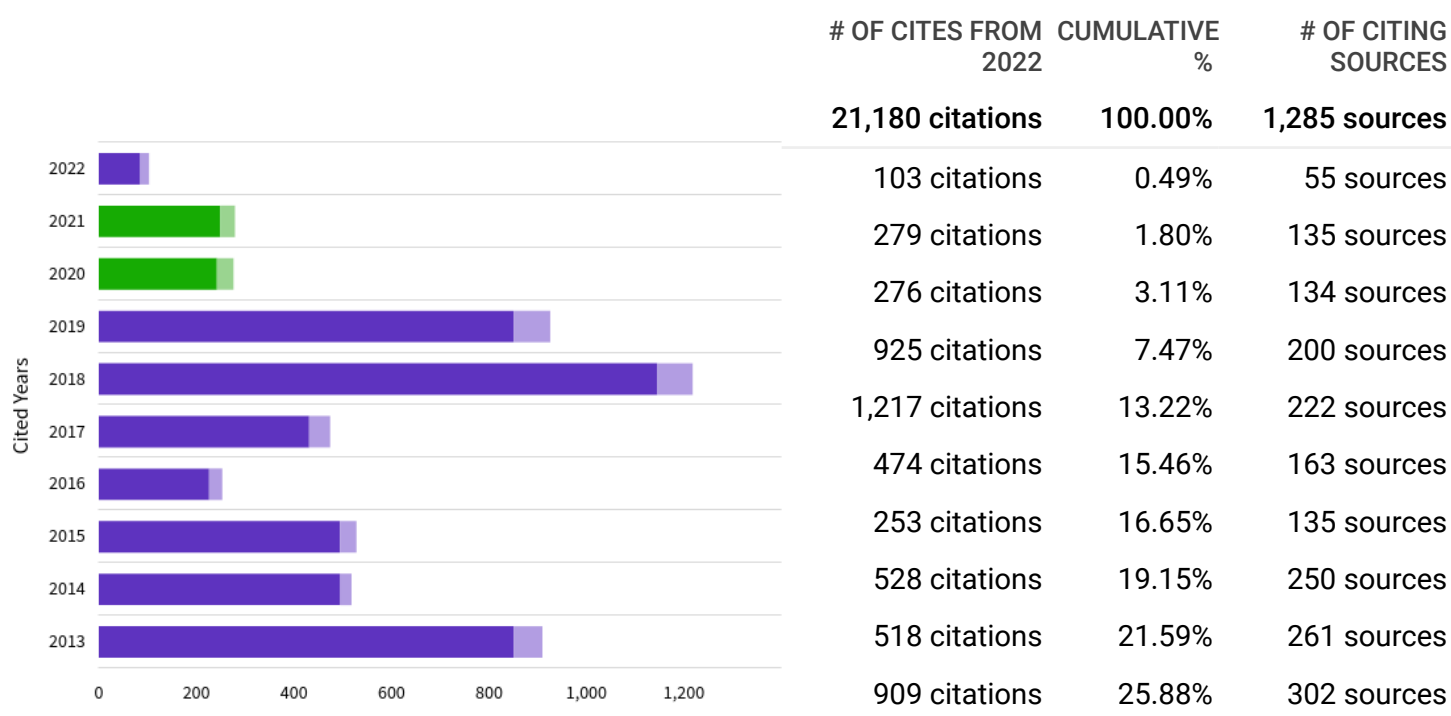
21,180

NON-SELF CITATIONS

20,177

SELF CITATIONS

1,003



Previous years:
15,698 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 D-Structural Biology

	SOURCE NAME	COUNT
	All Others	524
1	Nature Communications	1,717
2	Acta Crystallographica Section D-Structural Biology	1,003
3	JOURNAL OF BIOLOGICAL CHEMISTRY	676
4	JOURNAL OF MEDICINAL CHEMISTRY	525
5	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	472
6	NUCLEIC ACIDS RESEARCH	453
7	Science Advances	384
8	STRUCTURE	381
9	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	378
10	Communications Biology	377
11	NATURE	368
12	Acta Crystallographica Section F-Structural Biology Communications	334
13	Scientific Reports	294
14	eLife	287
15	Frontiers in Molecular Biosciences	276
16	IUCrJ	275
17	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	251
18	MOLECULES	239
19	Cell Reports	238
20	NATURE STRUCTURAL & MOLECULAR BIOLOGY	238

Showing 1 - 20 rows of 743 total (use export in the relevant section to download the full table)

Citing Half-life

9.5 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

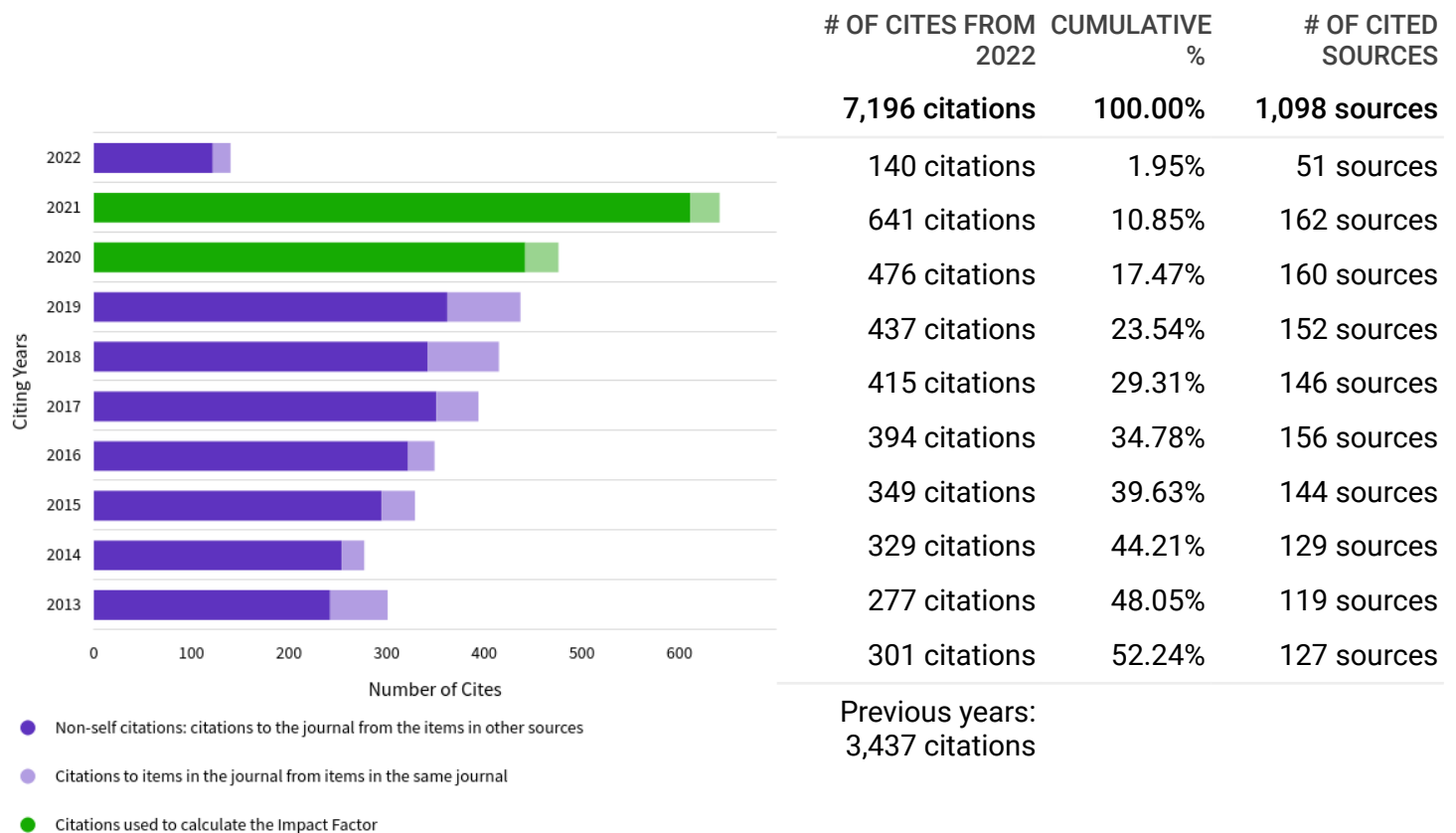
7,196

NON-SELF CITATIONS

6,193

SELF CITATIONS

1,003



Cited titles in all years

Acta Crystallographica Section D-Structural Biology

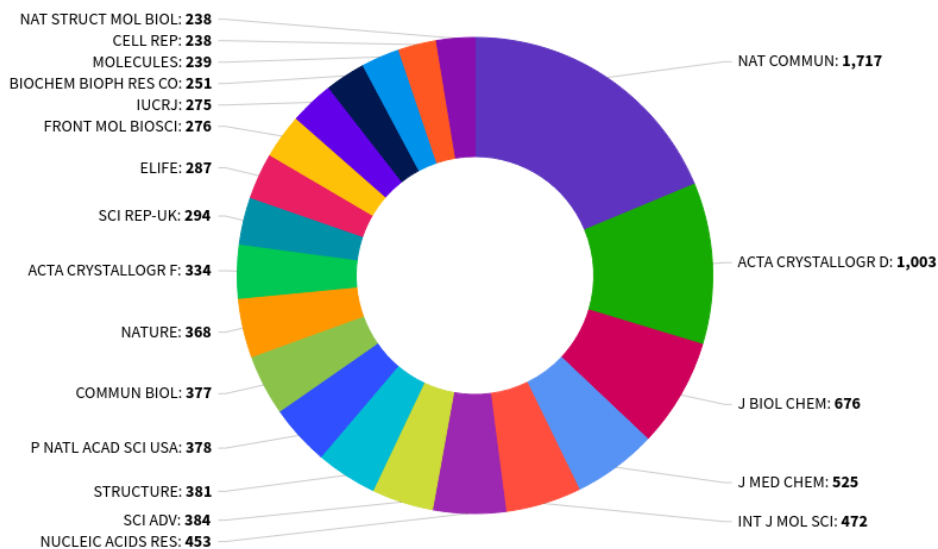
	SOURCE NAME	COUNT
	All Others	676
1	Acta Crystallographica Section D-Structural Biology	1,003
2	JOURNAL OF BIOLOGICAL CHEMISTRY	232
3	JOURNAL OF APPLIED CRYSTALLOGRAPHY	229
4	NUCLEIC ACIDS RESEARCH	229
5	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	227
6	NATURE	202
7	JOURNAL OF MOLECULAR BIOLOGY	192
8	SCIENCE	159
9	BIOCHEMISTRY	141
10	JOURNAL OF STRUCTURAL BIOLOGY	128
11	Nature Communications	113
12	STRUCTURE	113
13	NATURE METHODS	112
14	IUCrJ	104
15	PROTEIN SCIENCE	103
16	JOURNAL OF SYNCHROTRON RADIATION	93
17	PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS	88
18	Journal of the American Chemical Society	83
19	CURRENT OPINION IN STRUCTURAL BIOLOGY	71
20	BIOINFORMATICS	67

Showing 1 - 20 rows of 349 total (use export in the relevant section to download the full table)

Journal Citation Relationships

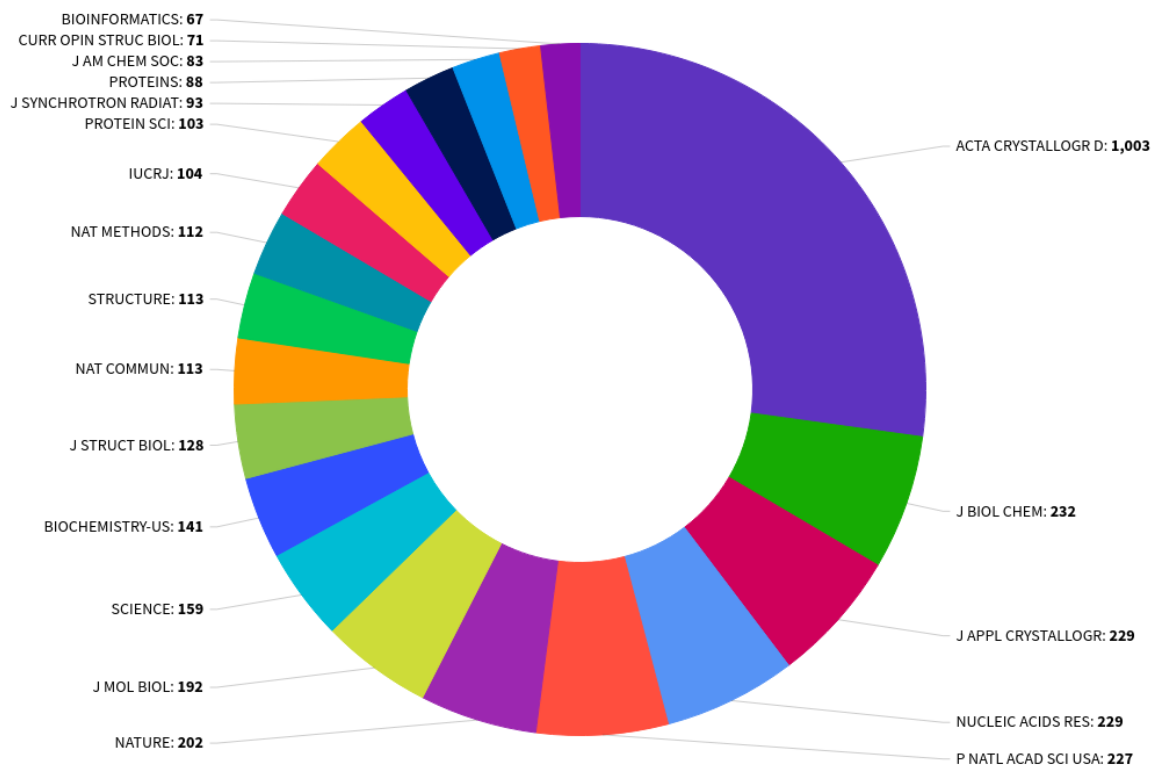
Cited Data

Top 20 journals citing ACTA CRYSTALLOGR D by number of citations



Citing Data

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

126 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2022 (A)	124	2	126	3	98%
NUMBER OF REFERENCES (B)	7,071	120	7,191	5	100%
RATIO (B/A)	57.0	60.0	57.1	1.7	

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

34.1

EDITION

Science Citation Index Expanded

BIOCHEMISTRY & MOLECULAR
BIOLOGY

15.6

BIOPHYSICS

32.1

CRYSTALLOGRAPHY









59.6

BIOCHEMICAL RESEARCH METHODS

29.2

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)	30	
2	EUROPEAN MOLECULAR BIOLOGY LABORATORY (EMBL)	21	
3	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	20	
-	HELMHOLTZ ASSOCIATION	20	
-	UNIVERSITY OF CAMBRIDGE	20	
6	UK RESEARCH & INNOVATION (UKRI)	19	
7	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	18	
-	UNIVERSITY OF CALIFORNIA SYSTEM	18	

Showing 1 - 8 rows of 533 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	109	
2	England	99	
3	GERMANY (FED REP GER)	55	
4	Japan	40	
5	France	30	
6	CHINA MAINLAND	27	
7	Spain	24	
8	Sweden	22	

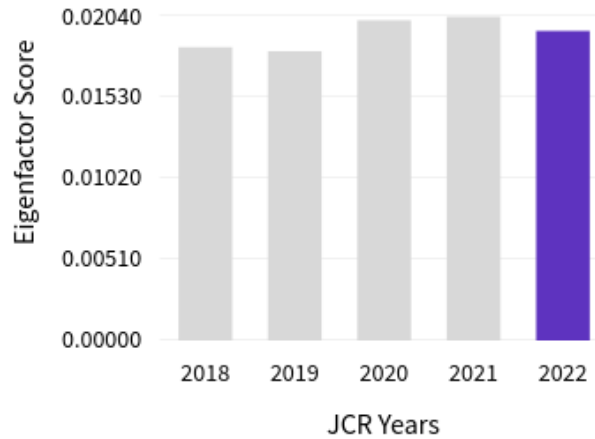
Showing 1 - 8 rows of 44 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.01950

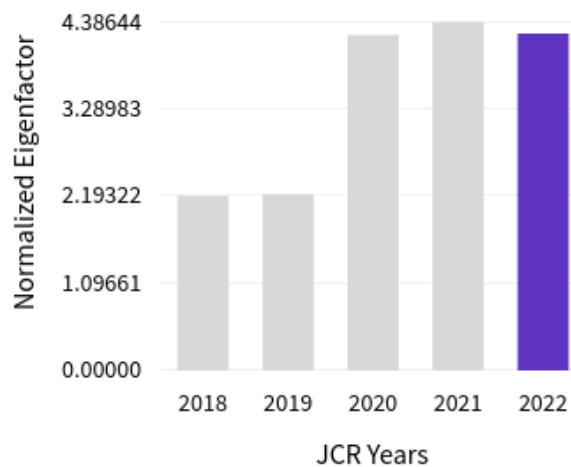
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

4.24502

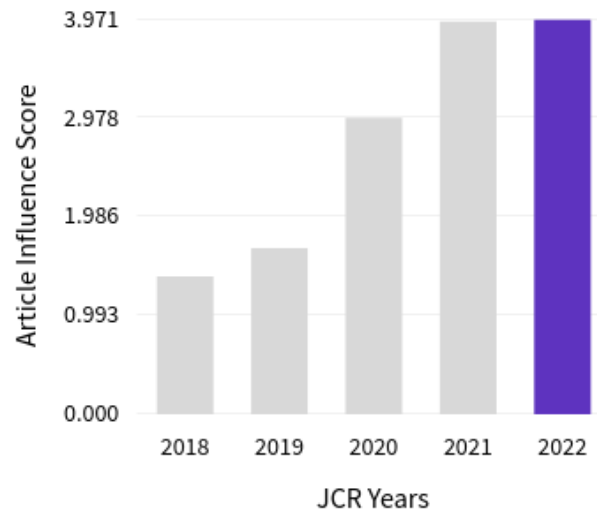
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)



Article influence score

3.971

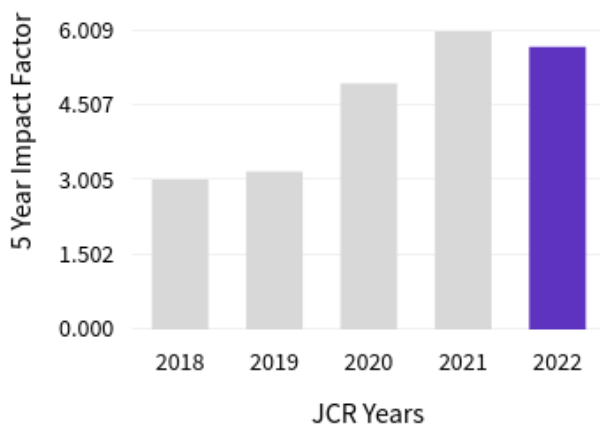
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

5.7

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

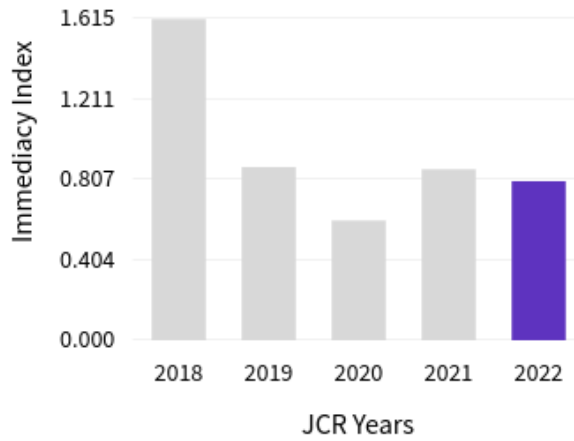
$$\frac{\text{Citations in 2022 to items published in [2017-2021] (3,171)}}{\text{Number of citable items in [2017-2021] (559)}} = \frac{3,171}{559} = 5.7$$

Immediacy Index

0.8

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	103	
<hr/>		103 / 126 = 0.8
Number of items published in 2022	126	