


2022 Journal Performance Data for: Formalized Mathematics

 Open Access since 2006

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1898-9934

EISSN

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JCR ABBREVIATION

FORMALIZ MATH

ISO ABBREVIATION

Formaliz. Math.

Journal Information

EDITION

Emerging Sources Citation
Index (ESCI)

CATEGORY

MATHEMATICS - ESCI

LANGUAGES

English

REGION

POLAND

1ST ELECTRONIC JCR YEAR

2020

Publisher Information

PUBLISHER

SCIENDO

ADDRESS

BOGUMILA ZUGA 32A,
WARSAW, MAZOVIA 01-811,
POLAND

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](#)

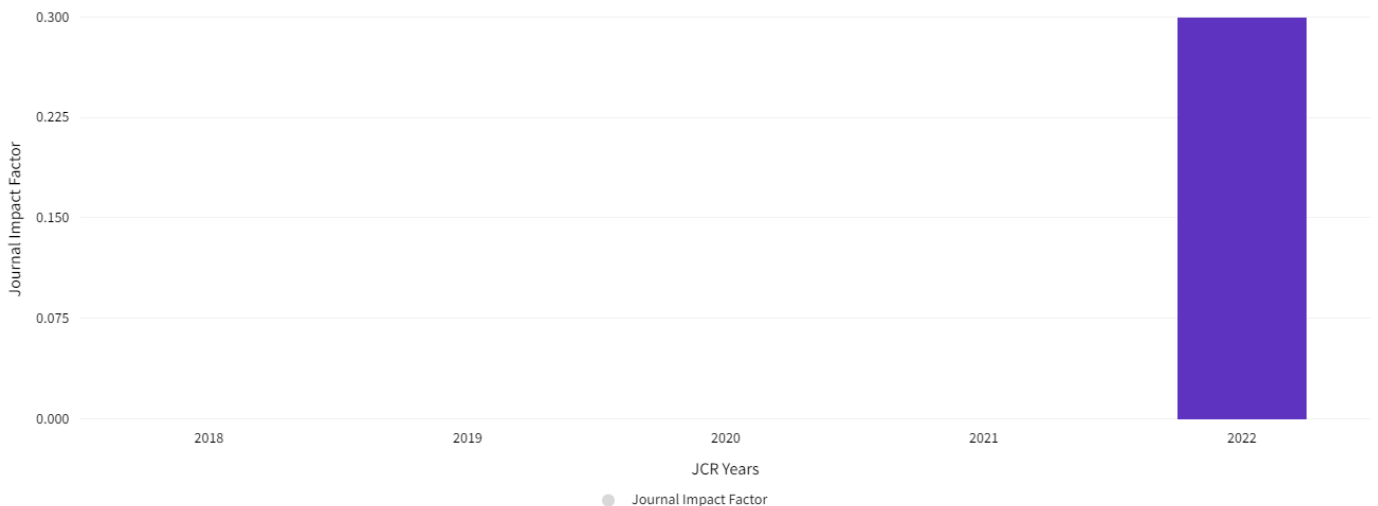
2022 JOURNAL IMPACT FACTOR

0.3

2022 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

<0.1

Journal Impact Factor Trend 2022



Journal Impact Factor is calculated using the following metrics






$$\frac{\text{Citations in 2022 to items published in 2020 (4) + 2021 (10)}}{\text{Number of citable items in 2020 (25) + 2021 (24)}} = \frac{14}{49} = 0.3$$

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

$$\frac{\text{Citations in 2022 to items published in 2020 (4) + 2021 (10) - Self Citations in 2022 to items published in 2020 (3) + 2021 (10)}}{\text{Number of citable items in 2020 (25) + 2021 (24)}} = \frac{14 - 13}{49} = <0.1$$

Journal Impact Factor Contributing Items

Citable Items (49)

TITLE	CITATION COUNT
Algebraic Extensions Authors: Schwarzweller, Christoph;Rowinska-Schwarzweller, Agnieszka Volume: 29 Accession number: WOS:000691288100004 Document Type: Article	1 
Ascoli-Arzela Theorem Authors: Yamazaki, Hiroshi;Miyajima, Keiichi;Shidama, Yasunari Volume: 29 Accession number: WOS:000739194700003 Document Type: Article	1 
Elementary Number Theory Problems. Part II Authors: Kornilowicz, Artur;Surowik, Dariusz Volume: 29 Accession number: WOS:000691288100006 Document Type: Article	1 
Grothendieck Universes Authors: Pak, Karol Volume: 28 Accession number: WOS:000607734000007 Document Type: Article	1 
Improper Integral. Part I Authors: Endou, Noboru Volume: 29 Accession number: WOS:000824850000005 Document Type: Article	1 

Showing 1-5 rows of 49 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (2)

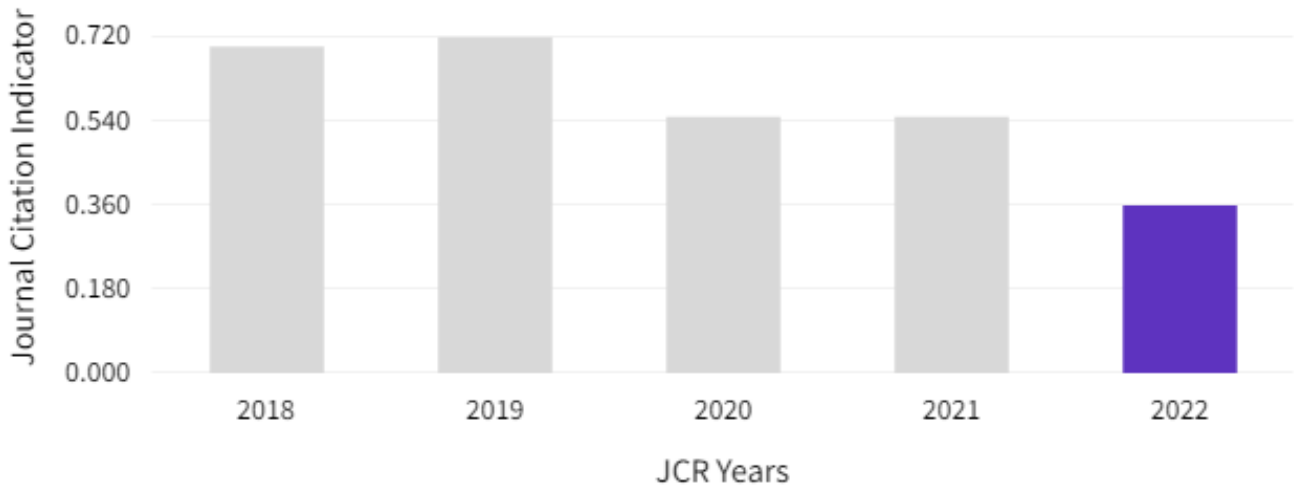
SOURCE NAME	COUNT
FORMALIZED MATHEMATICS	13
WIRELESS PERSONAL COMMUNICATIONS	1

Showing 1-2 rows of 2 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.36

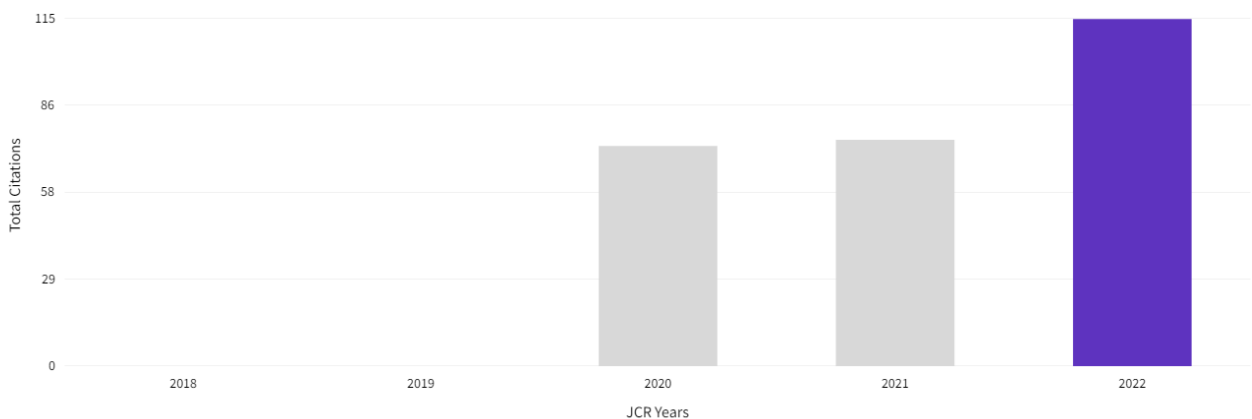
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

115

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

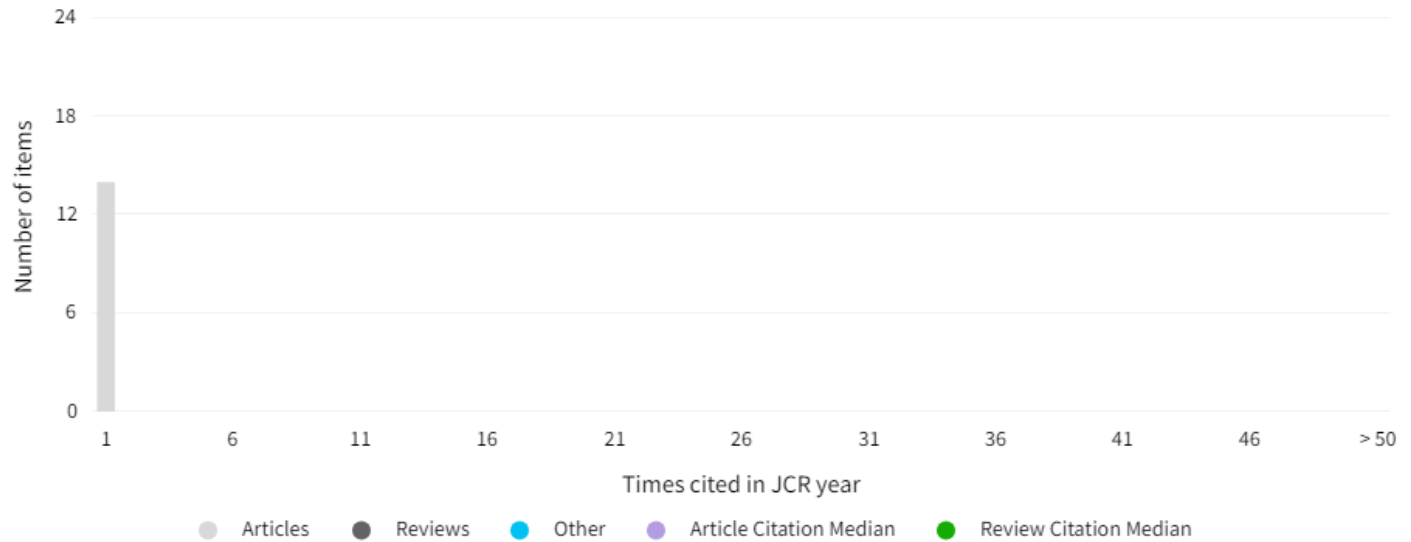
0

REVIEW CITATION MEDIAN

N/A

UNLINKED CITATIONS

0



0 times cited

ARTICLES

35

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. 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

71 **100.00%**

CITABLE

● GOLD OPEN ACCESS

71 / 98.61%

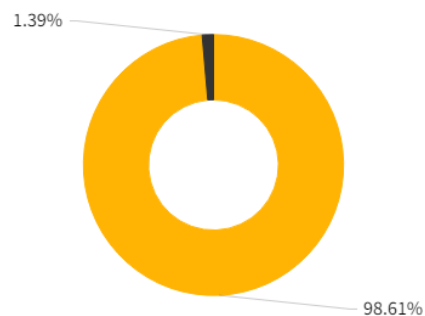
● SUBSCRIPTION OR BRONZE

0 / 0.00%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

1 / 1.39%



Citations*

TOTAL CITABLE % OF CITABLE OA

16 **100.00%**

CITABLE

● GOLD OPEN ACCESS

16 / 100.00%

● SUBSCRIPTION OR BRONZE

0 / 0.00%

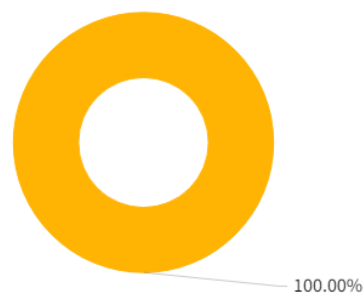
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%

● UNLINKED CITATIONS

0 / 0.00%



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

Rank by Journal Impact factor

Note: While journals indexed in AHCI and ESCI are receiving a JIF for the first time in June 2023, they will not receive ranks, quartiles, or percentiles until the release of 2023 data in June 2024. [Learn more](#)

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. [Learn more](#)

CATEGORY

MATHEMATICS

401/482

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE	
2022	401/482	Q4	16.91	
2021	304/475	Q3	36.11	
2020	306/471	Q3	35.14	
2019	222/470	Q2	52.87	
2018	232/469	Q2	50.64	
2017	268/462	Q3	42.10	

Citation network

Cited Half-life

13.5 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

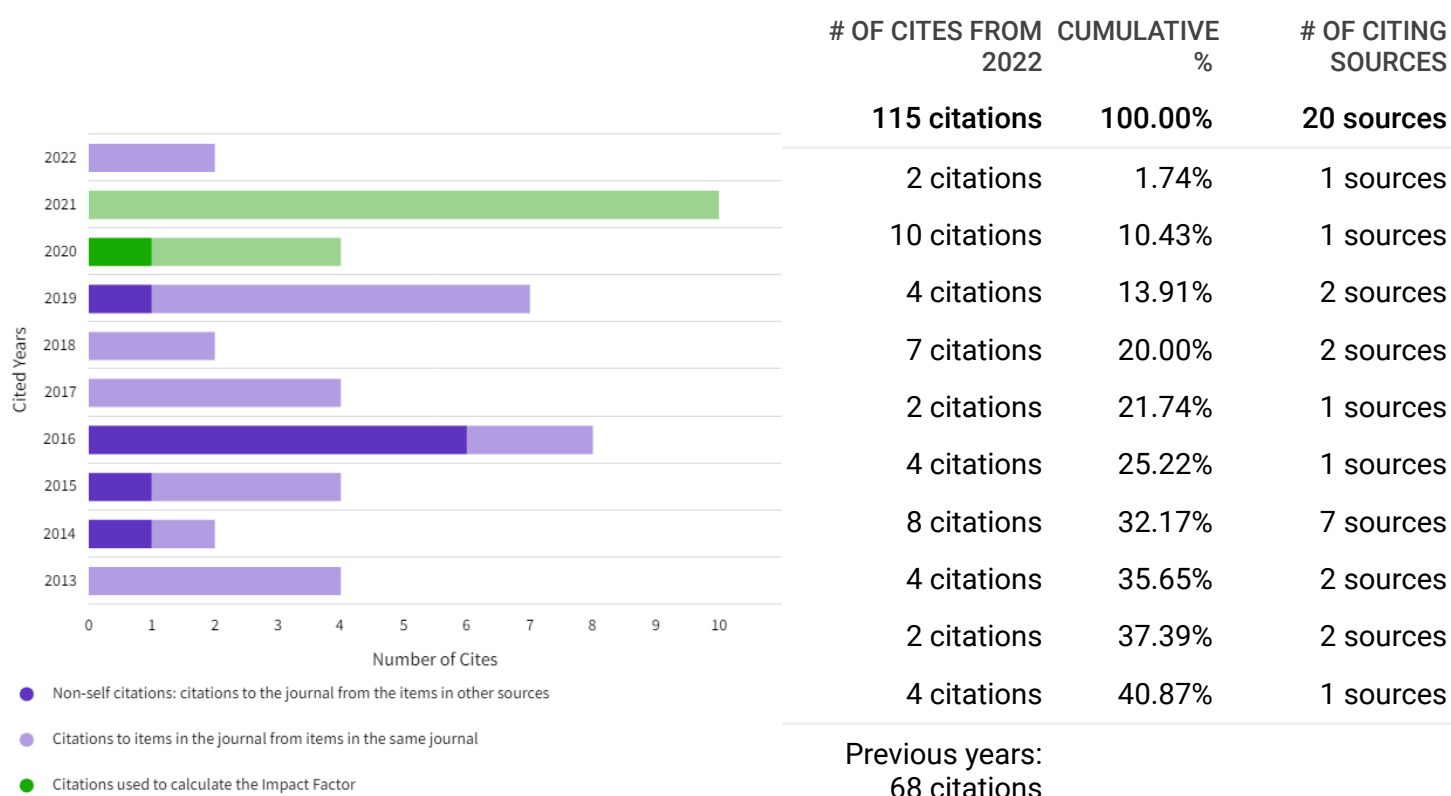
115

NON-SELF CITATIONS

23

SELF CITATIONS

92



Citing titles in all years

Formalized Mathematics

	SOURCE NAME	COUNT
	All Others	0
1	Formalized Mathematics	92
2	IEEE TRANSACTIONS ON SIGNAL PROCESSING	2
3	JOURNAL OF AUTOMATED REASONING	2
4	Baghdad Science Journal	1
5	Communications in Combinatorics and Optimization	1
6	ICGA JOURNAL	1
7	IEEE Transactions on Neural Networks and Learning Systems	1
8	INTERNATIONAL JOURNAL OF REMOTE SENSING	1
9	INTERACTIVE LEARNING ENVIRONMENTS	1
10	ISPRS International Journal of Geo-Information	1
11	JOURNAL OF COMBINATORIAL OPTIMIZATION	1
12	JOURNAL OF INFORMATION SCIENCE	1
13	JOURNAL OF NETWORK AND COMPUTER APPLICATIONS	1
14	PHYSICAL REVIEW B	1
15	SENSORS	1
16	Swarm and Evolutionary Computation	1
17	Turkish Journal of Mathematics	1
18	WIRELESS PERSONAL COMMUNICATIONS	1

Showing 1 - 18 rows of 18 total (use export in the relevant section to download the full table)

Citing Half-life

13.2 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

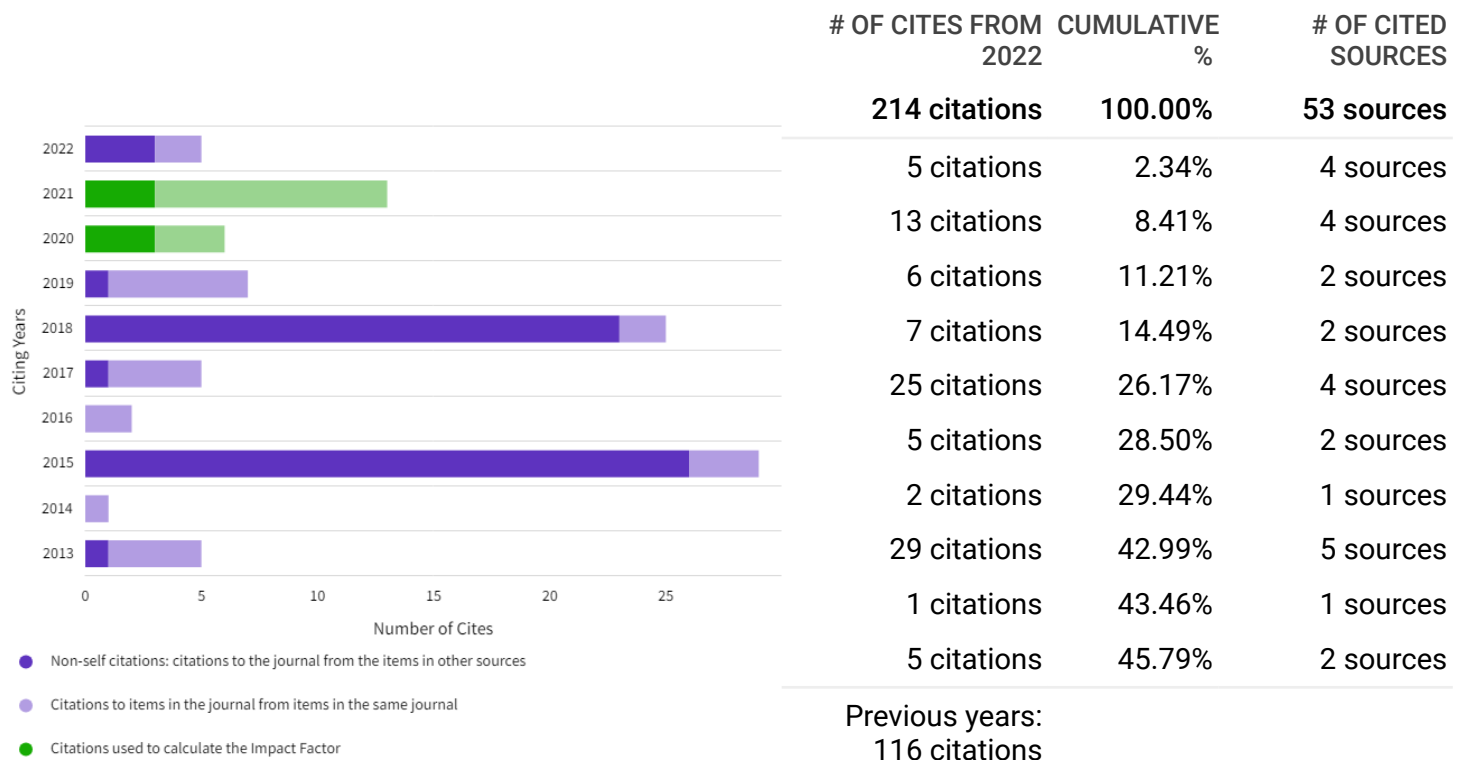
214

NON-SELF CITATIONS

122

SELF CITATIONS

92



Cited titles in all years

Formalized Mathematics

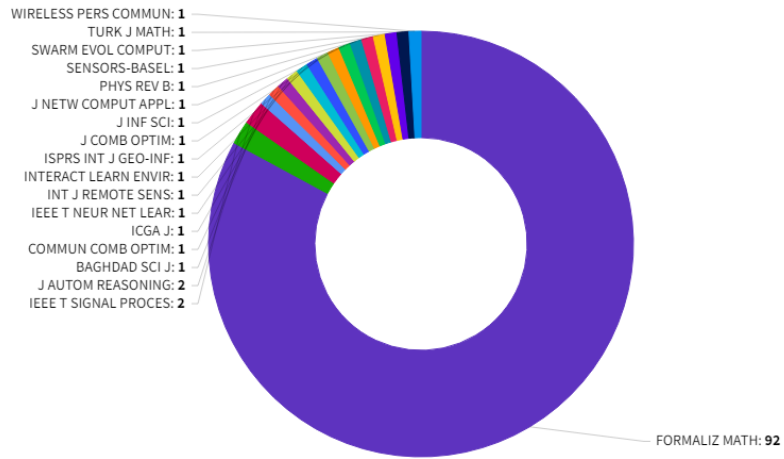
	SOURCE NAME	COUNT
	All Others	28
1	Formalized Mathematics	92
2	JOURNAL OF AUTOMATED REASONING	23
3	FUNCTIONAL ANALYSIS AND ITS APPLICATIONS	9
4	ACTA ARITHMETICA	1
5	AMERICAN MATHEMATICAL MONTHLY	1

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

Journal Citation Relationships

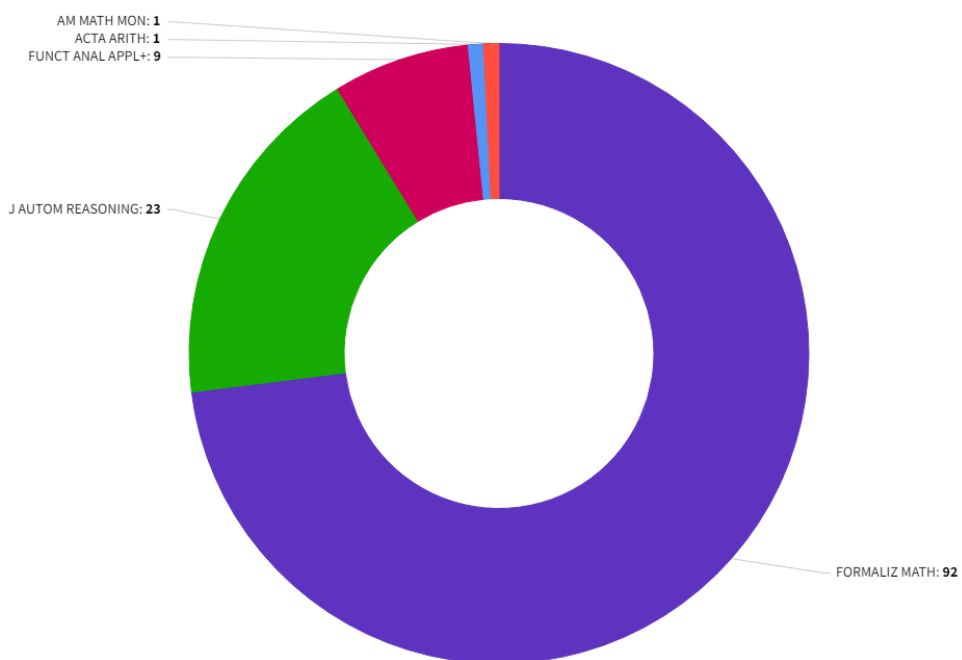
Cited Data

Top 20 journals citing FORMALIZ MATH by number of citations



Citing Data

Top 20 journals cited by FORMALIZ MATH 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](#)

22 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2022 (A)	22	N/A	22	1	96%
NUMBER OF REFERENCES (B)	208	N/A	208	6	97%
RATIO (B/A)	9.5	N/A	9.5	6.0	

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	UNIVERSITY OF BIALYSTOK	19	
2	FAHRENHEIT UNIVERSITIES	8	
-	JOHANNES GUTENBERG UNIVERSITY OF MAINZ	8	
4	SHINSHU UNIVERSITY	7	
-	YAMAGUCHI UNIVERSITY	7	
6	GIFU COLL	5	
7	KARUIZAWA HOTCH 244-1	4	
-	NAGANO PREFECTURAL INST TECHNOL	4	

Showing 1 - 8 rows of 23 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	Poland	28	
2	Japan	27	
3	GERMANY (FED REP GER)	8	
4	Belgium	6	
5	USA	1	

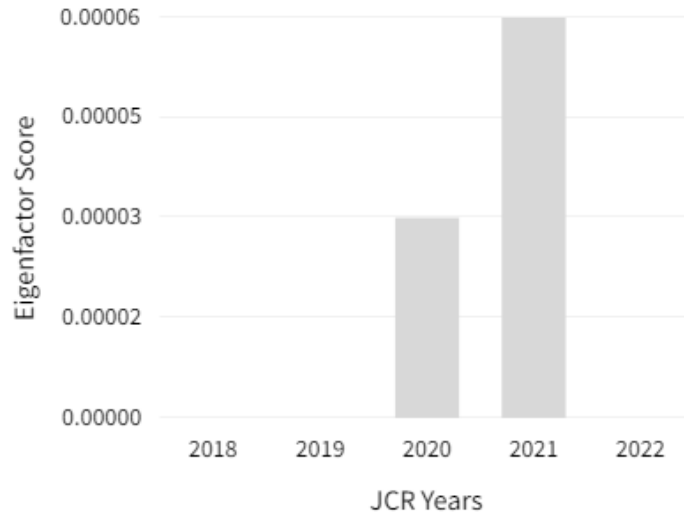
Showing 1 - 5 rows of 5 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00000

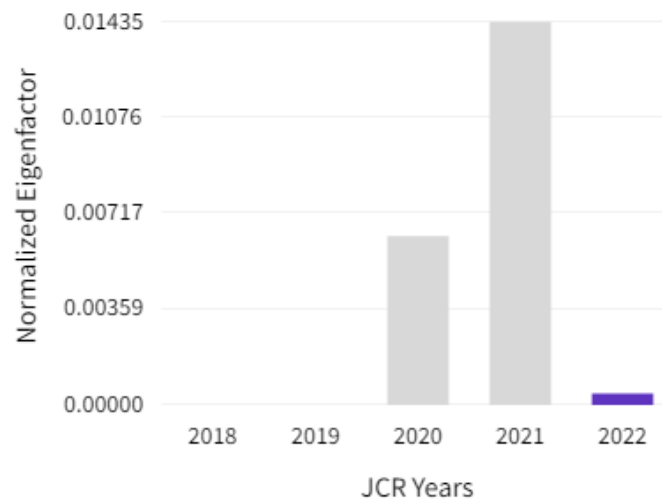
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.00043

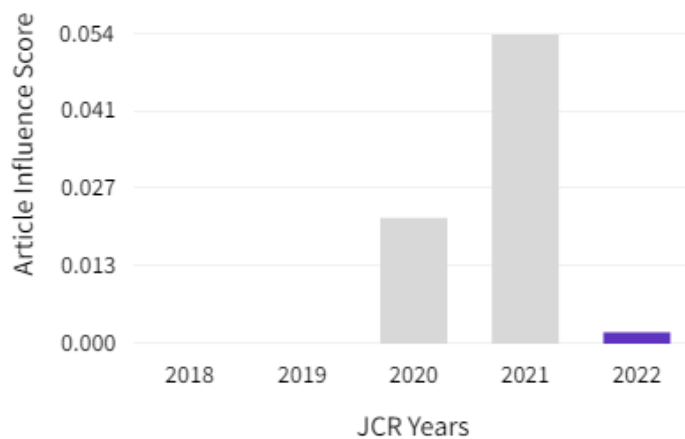
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)



Article influence score

0.002

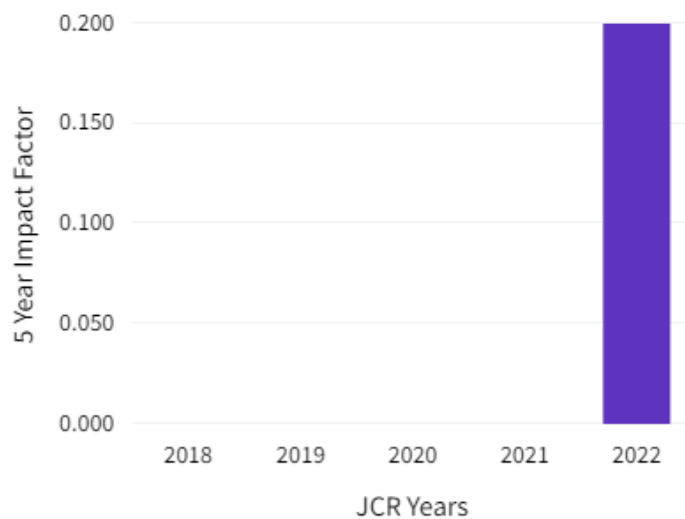
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

0.2

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

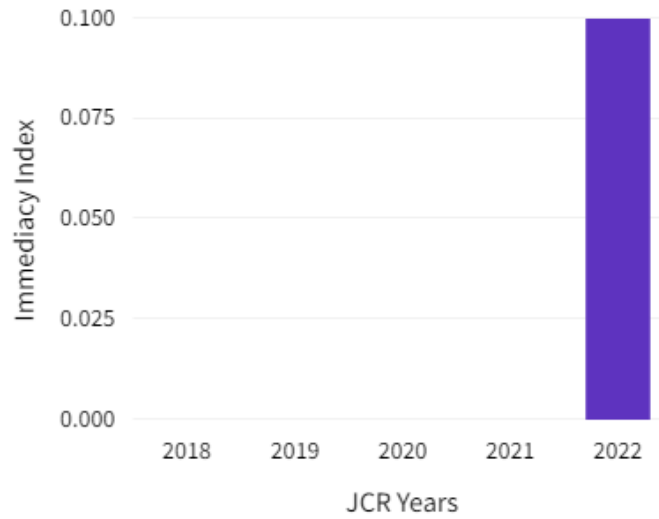
Citations in 2022 to items published in [2017-2021] (27)				
<hr/>	=	$\frac{27}{129}$	=	0.2
Number of citable items in [2017-2021] (129)				

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

Cites in 2022 to items published in 2022	2	
<hr/>		2 / 22 = 0.1
Number of items published in 2022	22	