

2022 Journal Performance Data for: MARINE BIOTECHNOLOGY

TITLE CHANGES

In 1999

J MAR BIOTECHNOL merged into MAR BIOTECHNOL
MOL MAR BIOL BIOTECH merged into MAR BIOTECHNOL
MAR BIOTECHNOL merged from MOL MAR BIOL BIOTECH
MAR BIOTECHNOL merged from J MAR BIOTECHNOL

ISSN

1436-2228

EISSN

1436-2236

JCR ABBREVIATION

MAR BIOTECHNOL

ISO ABBREVIATION

Mar. Biotechnol.

Journal Information

EDITION

Science Citation Index
Expanded (SCIE)

CATEGORY

BIOTECHNOLOGY & APPLIED
MICROBIOLOGY - SCIE
MARINE & FRESHWATER
BIOLOGY - SCIE

LANGUAGES

English

REGION

USA

1ST ELECTRONIC JCR YEAR

1999

Publisher Information

PUBLISHER

SPRINGER

ADDRESS

ONE NEW YORK PLAZA, SUITE
4600 , NEW YORK, NY 10004,
UNITED STATES

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](#)

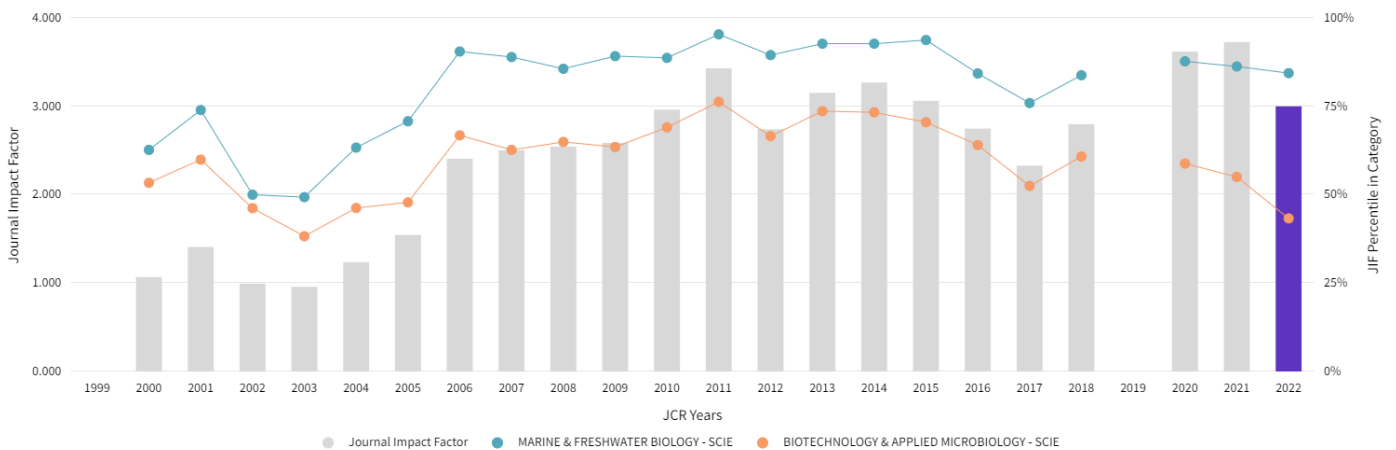
2022 JOURNAL IMPACT FACTOR

3.0

2022 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

2.9

Journal Impact Factor Trend 2022



Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2022 to items published in 2020 (268) - 2021 (183)}}{\text{Number of citable items in 2020 (80) + 2021 (70)}} = \frac{451}{150} = 3.0$$

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

$$\frac{\text{Citations in 2022 to items published in 2020 (268) + 2021 (183) - Self Citations in 2022 to items published in 2020 (7) + 2021 (11)}}{\text{Number of citable items in 2020 (80) + 2021 (70)}} = \frac{451 - 18}{150} = 2.9$$

Journal Impact Factor Contributing Items

Citable Items (150)

TITLE	CITATION COUNT
Identification of Candidate Growth-Related SNPs and Genes Using GWAS in Brown-Marbled Grouper (<i>Epinephelus fuscoguttatus</i>) Authors: Yang, Yang;Meng, Zining;Liu, Xiaochun;Xia, Junhong;Wu, Lina;Wu, Xi;Li, Bijun;Huang, Wenhua;Weng, Zhuoying;Lin, Zixuan; et al. Volume: 22 Accession number: WOS:000520822500001 Document Type: Review	12
Establishing Sustainable Cell Lines of a Coral, <i>Acropora tenuis</i> Authors: Kawamura, Kaz;Nishitsuji, Koki;Shoguchi, Eiichi;Fujiwara, Shigeki;Sato, Noriyuki Volume: 23 Accession number: WOS:000643594000001 Document Type: Article	11 
Pomc Plays an Important Role in Sexual Size Dimorphism in <i>Tilapia</i> Authors: Wan, Z. Y.;Lin, V. C. L.;Hua, Yue Gen Volume: 23 Accession number: WOS:000617404800001 Document Type: Article	11
Chloroplast Genetic Engineering of a Unicellular Green Alga <i>Haematococcus pluvialis</i> with Expression of an Antimicrobial Peptide Authors: Wang, Kang;Cui, Yulin;Wang, Yinchu;Gao, Zhengquan;Liu, Tianzhong;Meng, Chunxiao;Qin, Song Volume: 22 Accession number: WOS:000539935200001 Document Type: Article	10
Effects of Starvation on Antioxidant-Related Signaling Molecules, Oxidative Stress, and Autophagy in Juvenile Chinese Perch Skeletal Muscle Authors: Wu, Ping;Zhang, Jianshe;Wang, Aimin;Cheng, Jia;Chen, Lin;Pan, Yaxiong;Li, Honghui;Zhang, Qi;Zhang, Jiaqi;Chu, Wuying Volume: 22 Accession number: WOS:000511532800007 Document Type: Article	10

Showing 1-5 rows of 150 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (168)

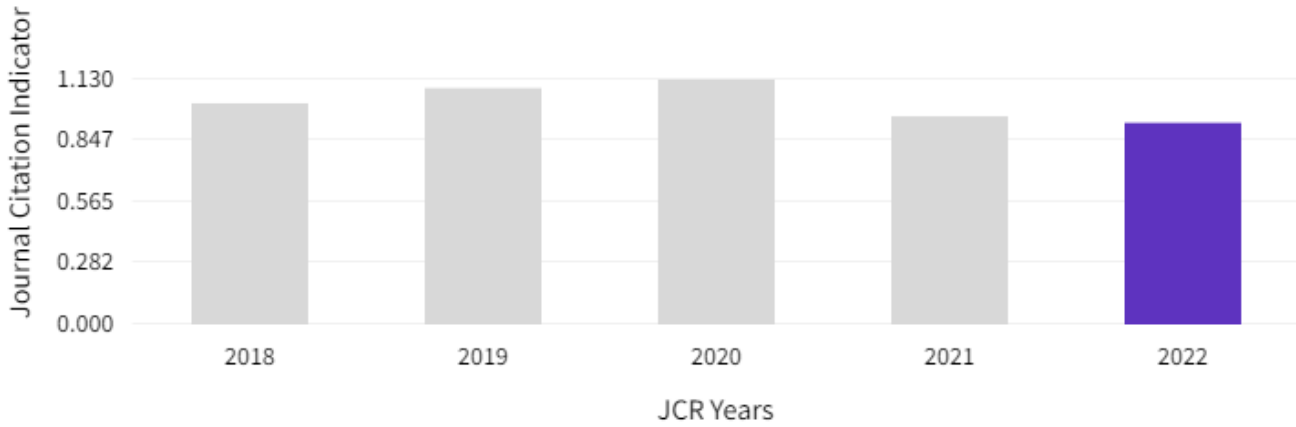
SOURCE NAME	COUNT
AQUACULTURE	50
FRONTIERS IN MARINE SCIENCE	24
REVIEWS IN AQUACULTURE	20
MARINE BIOTECHNOLOGY	18
FISH & SHELLFISH IMMUNOLOGY	17
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	15
MARINE DRUGS	12
GENE	10
BIOLOGY-BASEL	9
FRONTIERS IN GENETICS	9
SCIENTIFIC REPORTS	9
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY	6
ANIMALS	5
AQUACULTURE NUTRITION	5
AQUACULTURE REPORTS	5
AQUACULTURE RESEARCH	5
BMC GENOMICS	5
REVIEWS IN FISH BIOLOGY AND FISHERIES	5
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY	4
EVOLUTIONARY APPLICATIONS	4

Showing 1-20 rows of 168 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.93

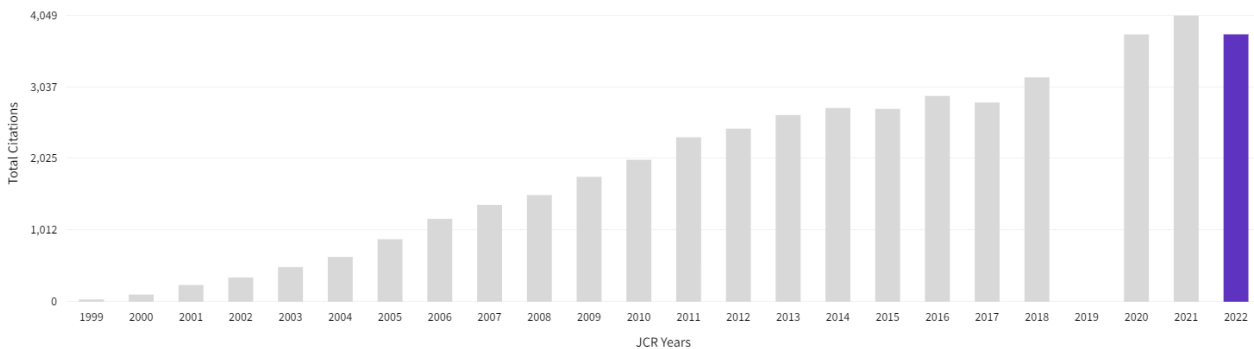
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

3,785

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

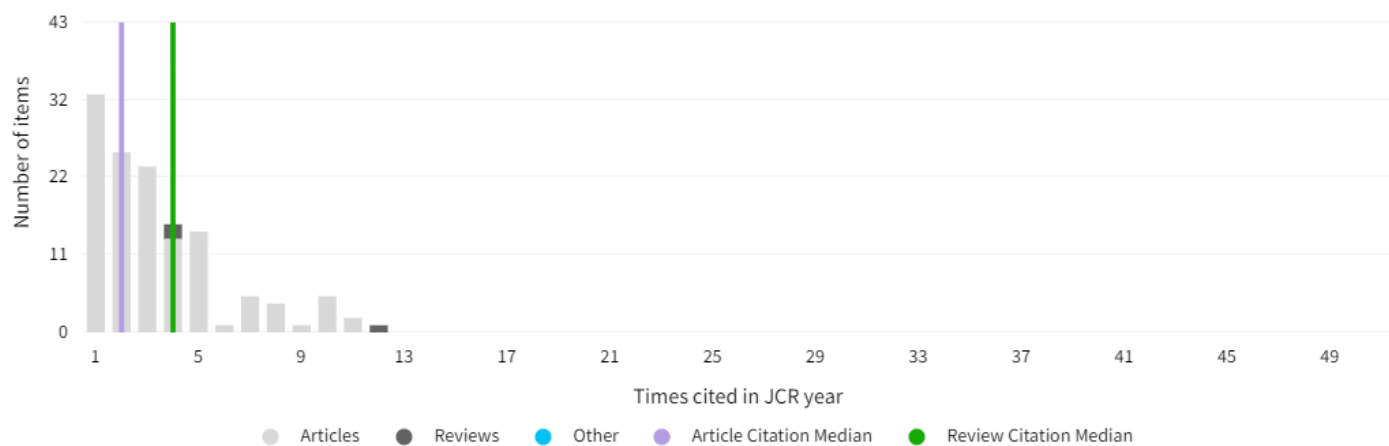
2

REVIEW CITATION MEDIAN

4

UNLINKED CITATIONS

3



0 times cited

ARTICLES

21

REVIEWS

0

OTHER

8

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

252

% OF CITABLE OA

8.73%

CITABLE

● GOLD OPEN ACCESS

22 / 8.37%

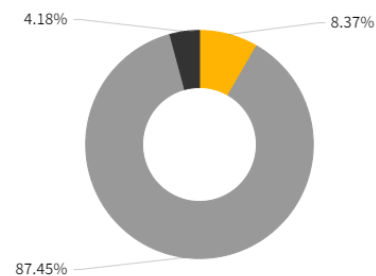
● SUBSCRIPTION OR BRONZE

230 / 87.45%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

11 / 4.18%



Citations*

TOTAL CITABLE

516

% OF CITABLE OA

12.02%

CITABLE

● GOLD OPEN ACCESS

62 / 11.95%

● SUBSCRIPTION OR BRONZE

454 / 87.48%

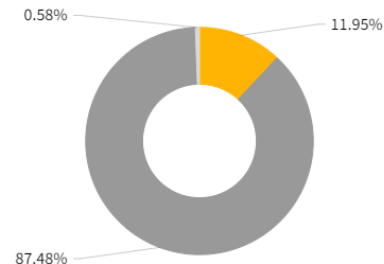
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%

● UNLINKED CITATIONS

3 / 0.58%



* 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

BIOTECHNOLOGY & APPLIED MICROBIOLOGY

89/156

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	89/156	Q3	43.3	
2021	72/159	Q2	55.03	
2020	66/159	Q2	58.81	
2019	N/A	N/A	N/A	
2018	64/162	Q2	60.80	
2017	77/161	Q2	52.48	
2016	58/160	Q2	64.06	
2015	48/161	Q2	70.50	
2014	44/163	Q2	73.31	
2013	44/165	Q2	73.64	
2012	54/160	Q2	66.56	
2011	38/158	Q1	76.27	
2010	50/160	Q2	69.06	
2009	56/152	Q2	63.49	
2008	51/144	Q2	64.93	
2007	52/138	Q2	62.68	
2006	47/140	Q2	66.79	
2005	73/139	Q3	47.84	
2004	72/133	Q3	46.24	
2003	82/132	Q3	38.26	
2002	71/131	Q3	46.18	
2001	53/131	Q2	59.92	
2000	63/134	Q2	53.36	
1999	123/124	Q4	N/A	

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

MARINE & FRESHWATER BIOLOGY

17/106

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2022	17/106	Q1	84.4	
2021	16/113	Q1	86.28	
2020	14/110	Q1	87.73	
2019	N/A	N/A	N/A	
2018	18/108	Q1	83.80	
2017	26/106	Q1	75.94	
2016	17/105	Q1	84.29	
2015	7/104	Q1	93.75	
2014	8/103	Q1	92.72	
2013	8/103	Q1	92.72	
2012	11/100	Q1	89.50	
2011	5/97	Q1	95.36	
2010	11/93	Q1	88.71	
2009	10/88	Q1	89.20	
2008	13/87	Q1	85.63	
2007	10/86	Q1	88.95	
2006	8/79	Q1	90.51	
2005	23/77	Q2	70.78	
2004	28/75	Q2	63.33	
2003	38/74	Q3	49.32	
2002	37/73	Q3	50.00	
2001	19/71	Q2	73.94	
2000	27/71	Q2	62.68	
1999	70/70	Q4	N/A	

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

BIOTECHNOLOGY & APPLIED MICROBIOLOGY

42/167

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	42/167	Q2	75.15	
2021	35/168	Q1	79.46	
2020	27/165	Q1	83.94	
2019	32/165	Q1	80.91	
2018	41/165	Q1	75.45	
2017	33/162	Q1	79.94	

CATEGORY

MARINE & FRESHWATER BIOLOGY

14/114

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2022	14/114	Q1	88.16	
2021	18/121	Q1	85.54	
2020	13/116	Q1	89.22	
2019	18/116	Q1	84.91	
2018	26/114	Q1	77.63	
2017	26/113	Q1	77.43	

Citation network

Cited Half-life

9.5 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

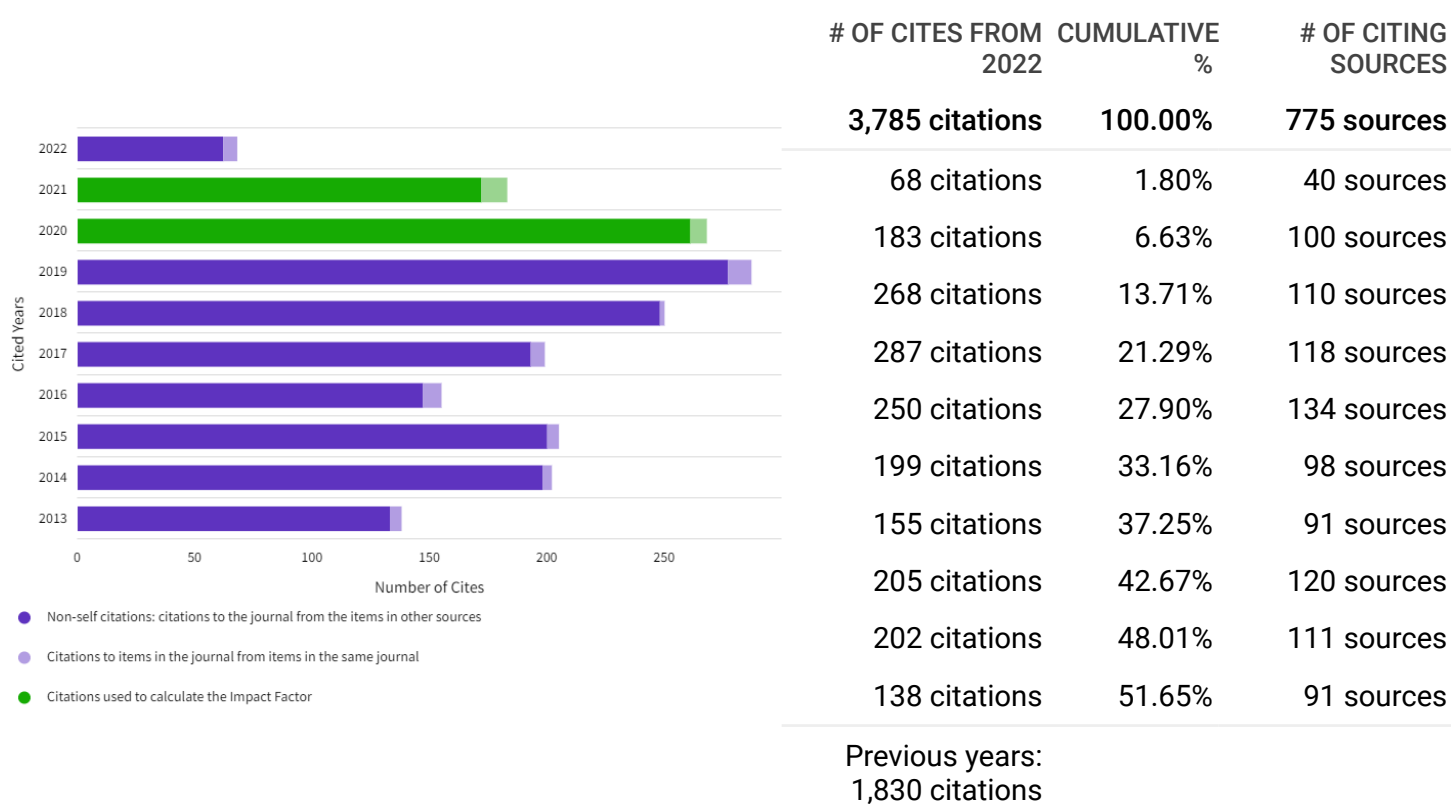
3,785

NON-SELF CITATIONS

3,694

SELF CITATIONS

91



Citing titles in all years

MARINE BIOTECHNOLOGY

	SOURCE NAME	COUNT
	All Others	397
1	AQUACULTURE	314
2	Frontiers in Marine Science	168
3	Marine Drugs	140
4	FISH & SHELLFISH IMMUNOLOGY	120
5	Reviews in Aquaculture	93
6	MARINE BIOTECHNOLOGY	91
7	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	79
8	Aquaculture Reports	64
9	Scientific Reports	60
10	AQUACULTURE RESEARCH	51
11	Frontiers in Microbiology	50
12	Frontiers in Genetics	44
13	Animals	41
14	MOLECULES	40
15	Science of The Total Environment	39
16	International Journal of Biological Macromolecules	36
17	Biology-Basel	35
18	Microorganisms	33
19	Algal Research-Biomass Biofuels and Bioproducts	32
20	GENE	32

Showing 1 - 20 rows of 374 total (use export in the relevant section to download the full table)

Citing Half-life

8.5 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

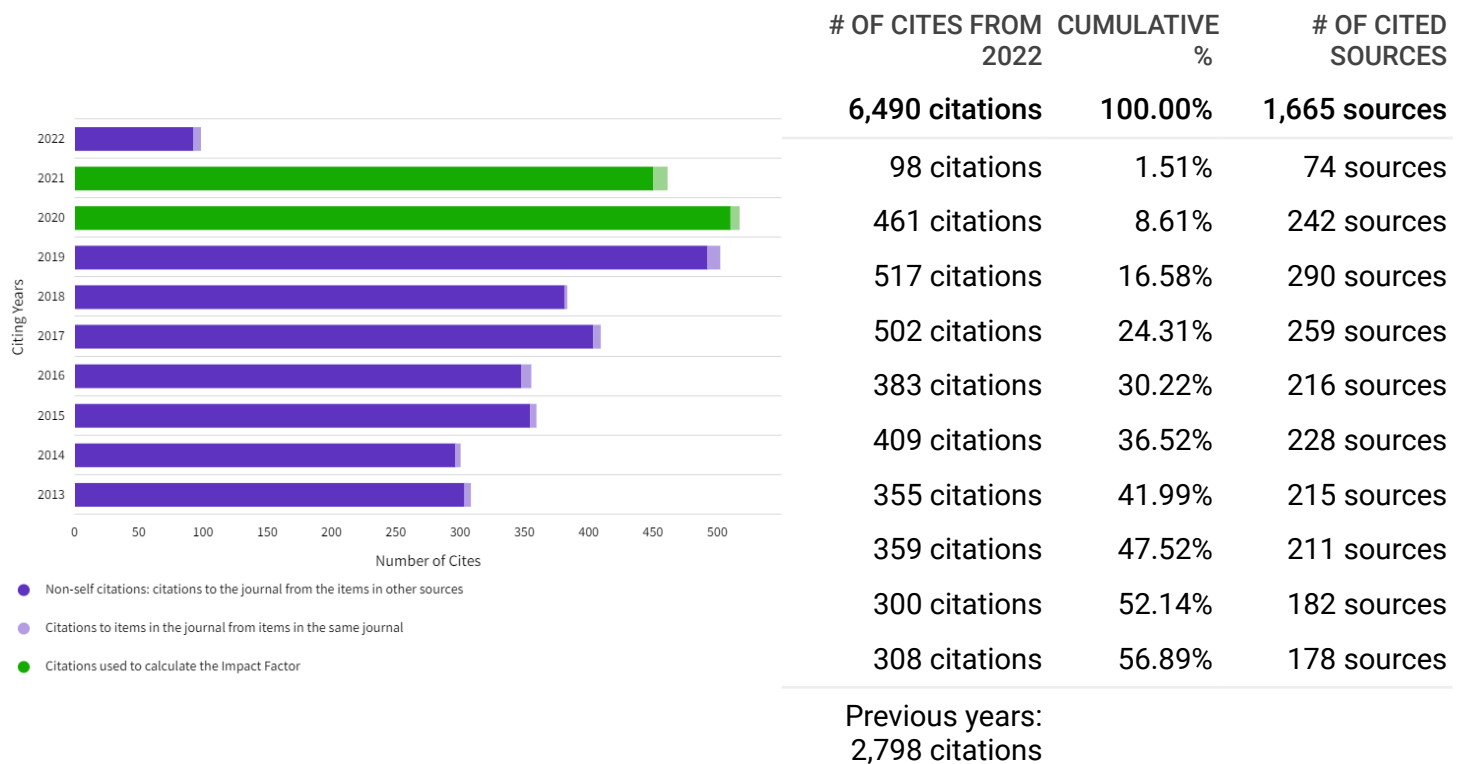
6,490

NON-SELF CITATIONS

6,399

SELF CITATIONS

91



Cited titles in all years

MARINE BIOTECHNOLOGY

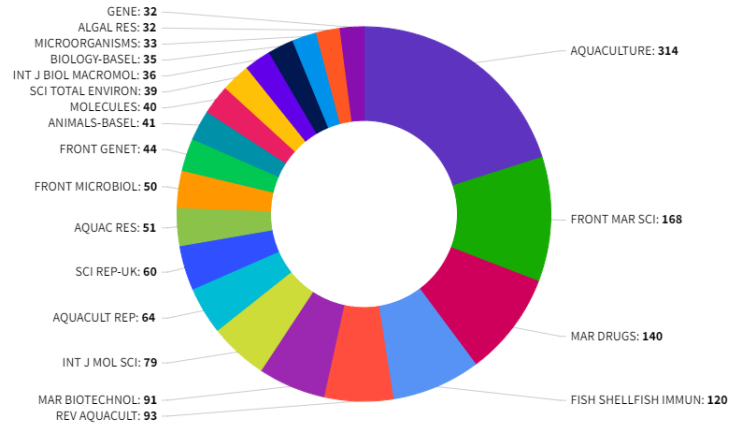
	SOURCE NAME	COUNT
	All Others	957
1	AQUACULTURE	192
2	PLoS One	151
3	FISH & SHELLFISH IMMUNOLOGY	137
4	Scientific Reports	127
5	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	109
6	BIOINFORMATICS	99
7	NUCLEIC ACIDS RESEARCH	94
8	MARINE BIOTECHNOLOGY	91
9	NATURE	90
10	BMC GENOMICS	82
11	SCIENCE	71
12	Marine Drugs	65
13	COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY	60
14	CELL	58
15	GENE	58
16	JOURNAL OF BIOLOGICAL CHEMISTRY	56
17	Frontiers in Microbiology	48
18	DEVELOPMENTAL BIOLOGY	45
19	GENOME BIOLOGY	43
20	Nature Communications	43

Showing 1 - 20 rows of 631 total (use export in the relevant section to download the full table)

Journal Citation Relationships

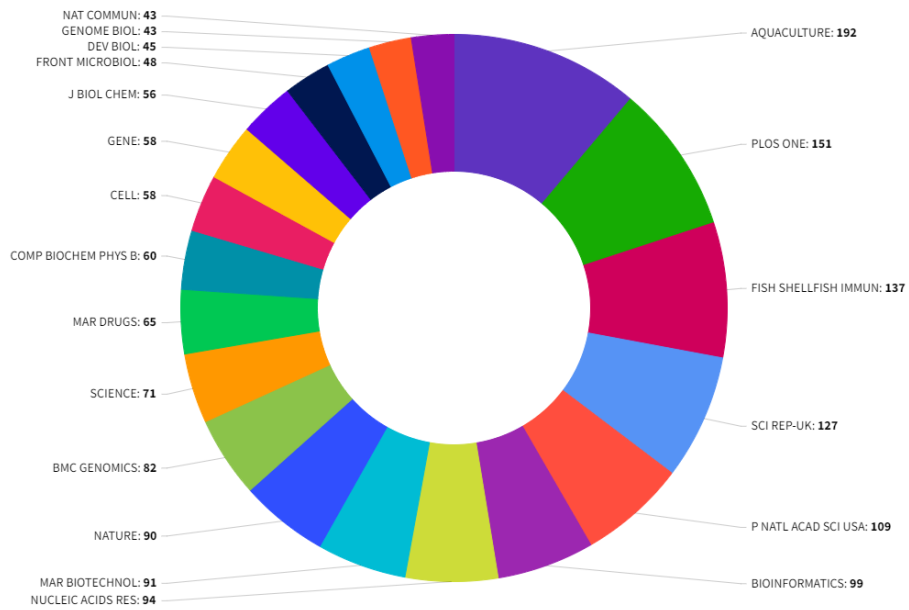
Cited Data

Top 20 journals citing MAR BIOTECHNOL by number of citations



Citing Data

Top 20 journals cited by MAR BIOTECHNOL 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](#)

102 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2022 (A)	94	8	102	3	97%
NUMBER OF REFERENCES (B)	5,279	1,208	6,487	3	100%
RATIO (B/A)	56.2	151.0	63.6	1.0	

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. [Learn more](#)

ALL CATEGORIES AVERAGE

63.9

EDITION

Science Citation Index Expanded

MARINE & FRESHWATER BIOLOGY









84.4

BIOTECHNOLOGY & APPLIED MICROBIOLOGY

43.3

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	LAOSHAN LABORATORY	23	
2	MINISTRY OF AGRICULTURE & RURAL AFFAIRS	20	
3	OCEAN UNIVERSITY OF CHINA	19	
4	CHINESE ACADEMY OF SCIENCES	16	
-	XIAMEN UNIVERSITY	16	
6	CHINESE ACADEMY OF FISHERY SCIENCES	12	
-	SHANGHAI OCEAN UNIVERSITY	12	
8	NINGDE FUFA FISHERIES CO LTD	9	

Showing 1 - 8 rows of 390 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	CHINA MAINLAND	126	
2	Japan	42	
3	USA	25	
4	France	13	
5	Brazil	12	
6	Canada	10	
7	India	9	
8	England	8	

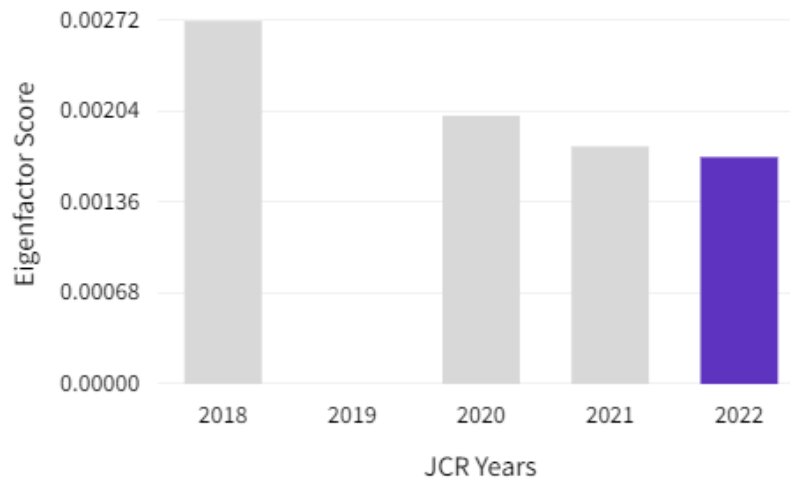
Showing 1 - 8 rows of 45 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00170

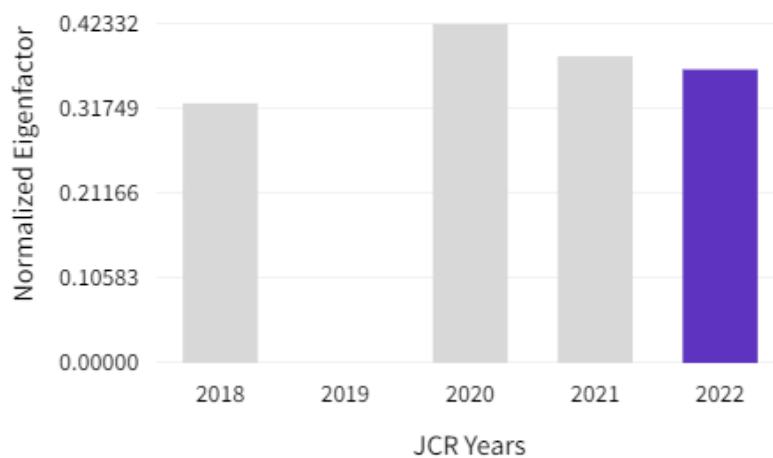
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.36659

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

0.560

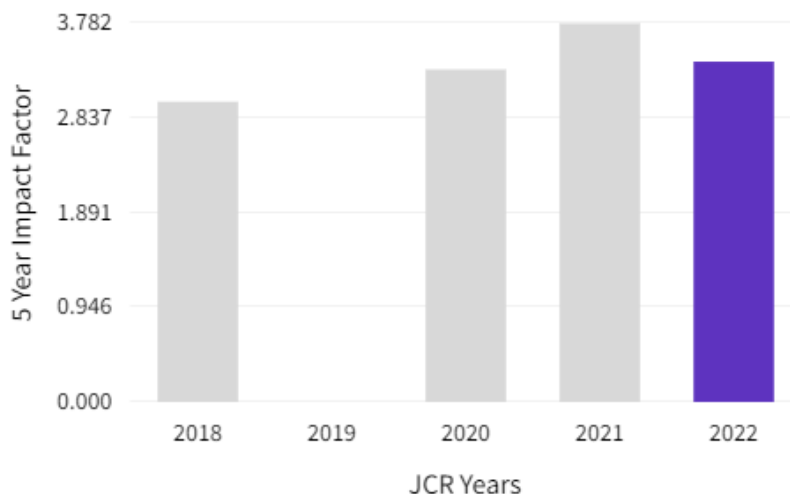
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



5 year Impact Factor

3.4

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

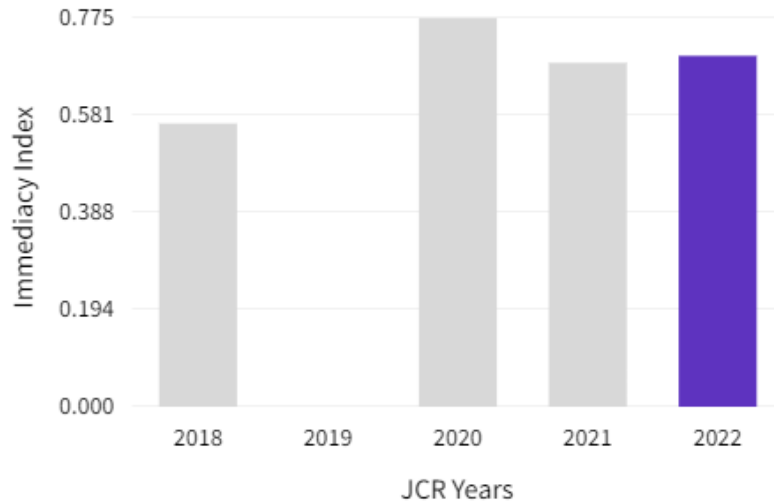
Citations in 2022 to items published in [2017-2021] (1,187)	=	1,187	=	3.4
Number of citable items in [2017-2021] (345)		345		

Immediacy Index

0.7

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	68	
<hr/>		68 / 102 = 0.7
Number of items published in 2022	102	