

2021 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.

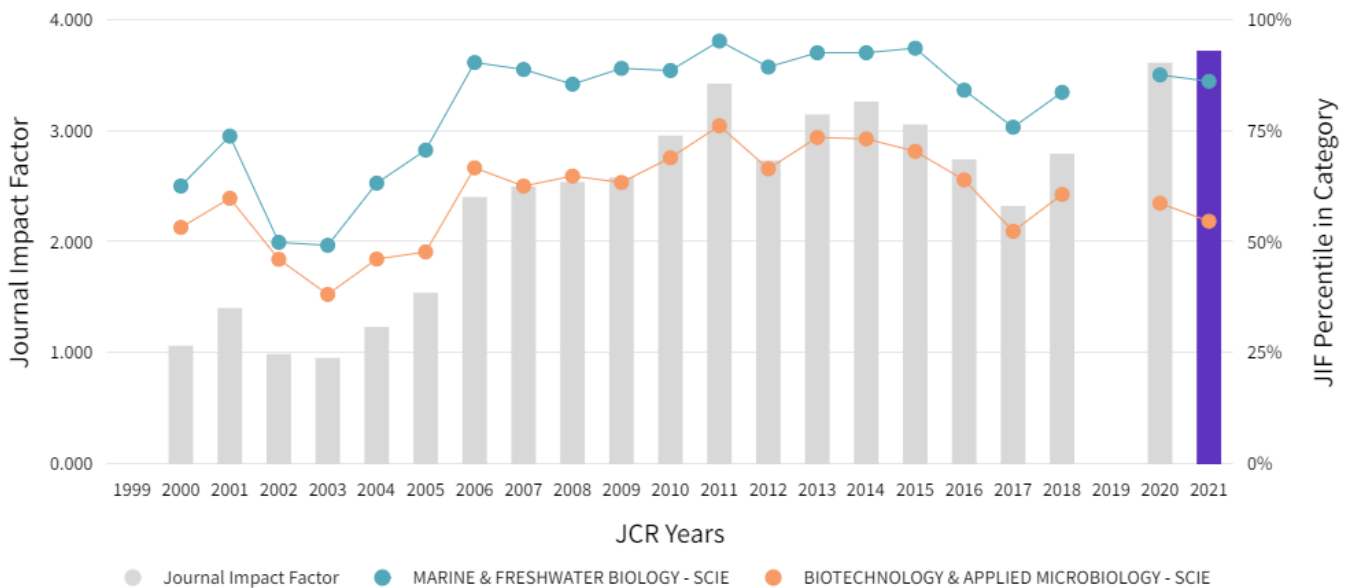
2021 JOURNAL IMPACT FACTOR

3.727

2021 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

3.566

Journal Impact Factor Trend 2021



Journal Impact Factor is calculated using the following metrics



$$\frac{\text{Citations in 2021 to items published in 2019 (299) - 2020 (234)}}{\text{Number of citable items in 2019 (66) + 2020 (77)}} = \frac{533}{143} = 3.727$$

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

$$\frac{\text{Citations in 2021 to items published in 2019 (299) + 2020 (234) - Self Citations in 2021 to items published in 2019 (14) + 2020 (9)}}{\text{Number of citable items in 2019 (66) + 2020 (77)}} = \frac{533 - 23}{143} = 3.566$$

Journal Impact Factor Contributing Items

Citable Items (143)

TITLE	CITATION COUNT
Targeted Gene Disruption in Pacific Oyster Based on CRISPR/Cas9 Ribonucleoprotein Complexes Authors: Yu, Hong;Li, Huijuan;Li, Qi;Xu, Rui;Yue, Chenyang;Du, Shaojun Volume: 21 Accession number: WOS:000468239600001 Document Type: Article	12
Abundance of Early Embryonic Primordial Germ Cells Promotes Zebrafish Female Differentiation as Revealedby Lifetime Labeling of Germline Authors: Ye, Ding;Zhu, Lin;Zhang, Qifeng;Xiong, Feng;Wang, Houpeng;Wang, Xiaosi;He, Mudan;Zhu, Zuoyan;Sun, Yonghua Volume: 21 Accession number: WOS:000462935700009 Document Type: Article	11 
Constructing a High-Density Genetic Linkage Map for Large Yellow Croaker (<i>Larimichthys crocea</i>) and Mapping Resistance Trait Against Ciliate Parasite <i>Cryptocaryon irritans</i> Authors: Kong, Shengnan;Ke, Qiaozhen;Chen, Lin;Zhou, Zhixiong;Pu, Fei;Zhao, Ji;Bai, Huaqiang;Peng, Wenzhu;Xu, Peng Volume: 21 Accession number: WOS:000462935700013 Document Type: Article	11
Evaluation of Genomic Selection for Seven Economic Traits in Yellow Drum (<i>Nibea albiflora</i>) Authors: Liu, Guijia;Dong, Linsong;Gu, Linlin;Han, Zhaofang;Zhang, Wenjing;Fang, Ming;Wang, Zhiyong Volume: 21 Accession number: WOS:000516538500007 Document Type: Article	11 
<i>Ruegeria</i> sp. Strains Isolated from the Reef-Building Coral <i>Galaxea fascicularis</i> Inhibit Growth of the Temperature-Dependent Pathogen <i>Vibrio coralliilyticus</i> Authors: Miura, Natsuko;Motone, Keisuke;Takagi, Toshiyuki;Aburaya, Shunsuke;Watanabe, Sho;Aoki, Wataru;Ueda, Mitsuyoshi Volume: 21 Accession number: WOS:000459406500001 Document Type: Article	10

Showing 1-5 rows of 143 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (198)

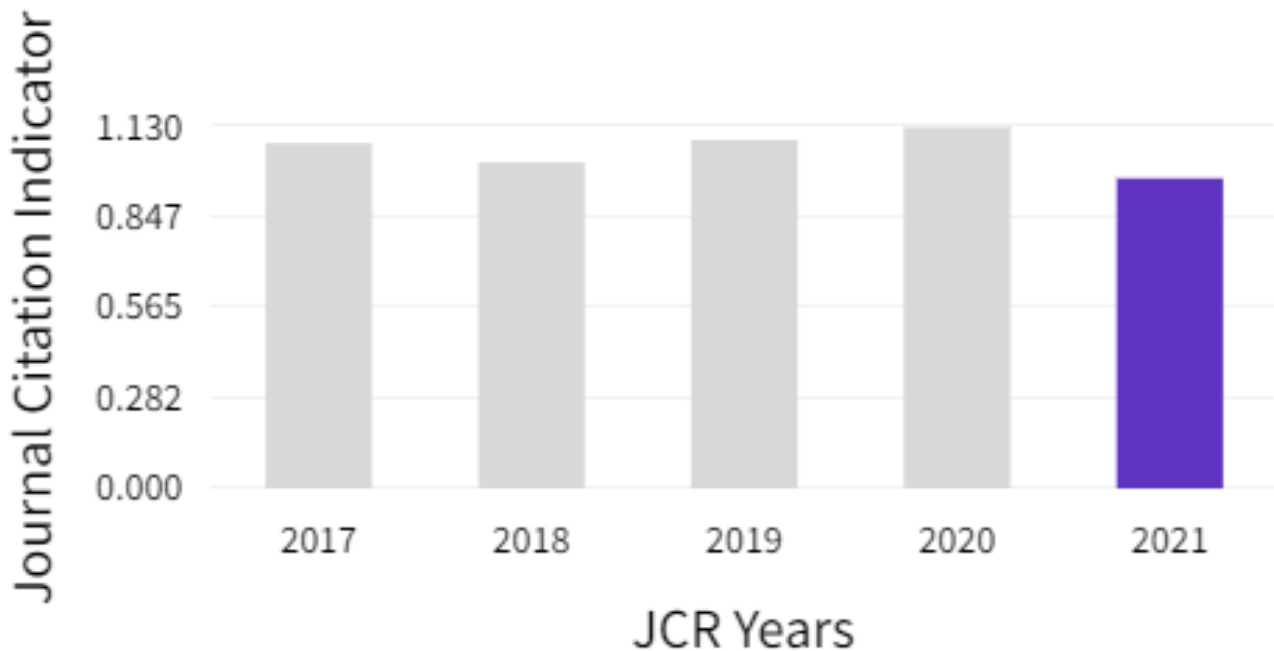
SOURCE NAME	COUNT
AQUACULTURE	82
MARINE BIOTECHNOLOGY	23
FRONTIERS IN MARINE SCIENCE	21
MARINE DRUGS	18
REVIEWS IN AQUACULTURE	16
BMC GENOMICS	16
AQUACULTURE REPORTS	16
FRONTIERS IN GENETICS	15
SCIENTIFIC REPORTS	11
FISH & SHELLFISH IMMUNOLOGY	10
GENES	9
ANIMALS	8
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	8
GENE	6
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES	6
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	5
EVOLUTIONARY APPLICATIONS	5
GENOMICS	5
DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY	5
FRONTIERS IN MICROBIOLOGY	5

Showing 1-20 rows of 198 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.97

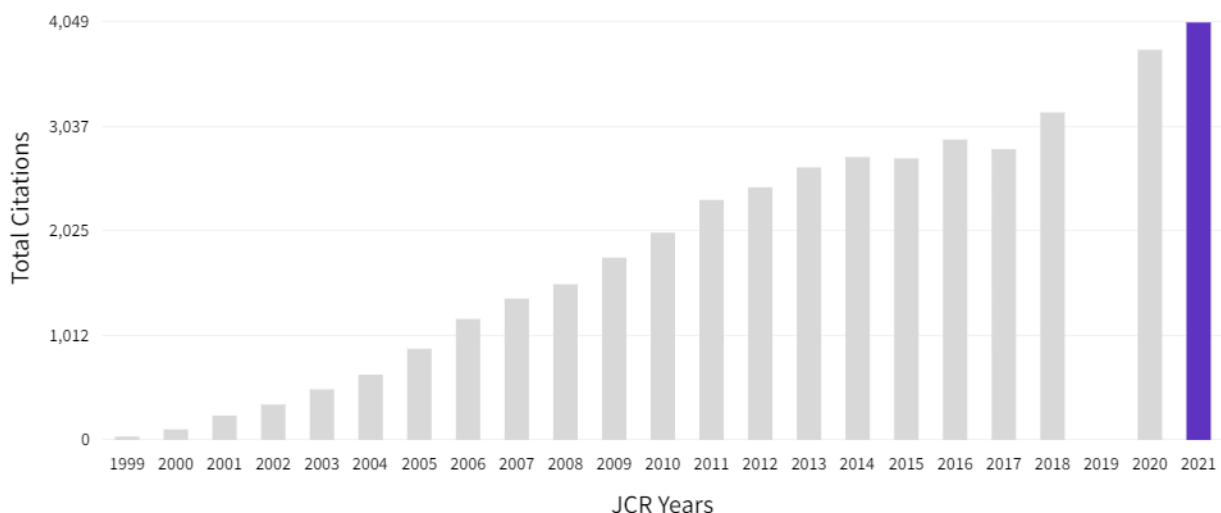
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

4,049

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.

ARTICLE CITATION MEDIAN

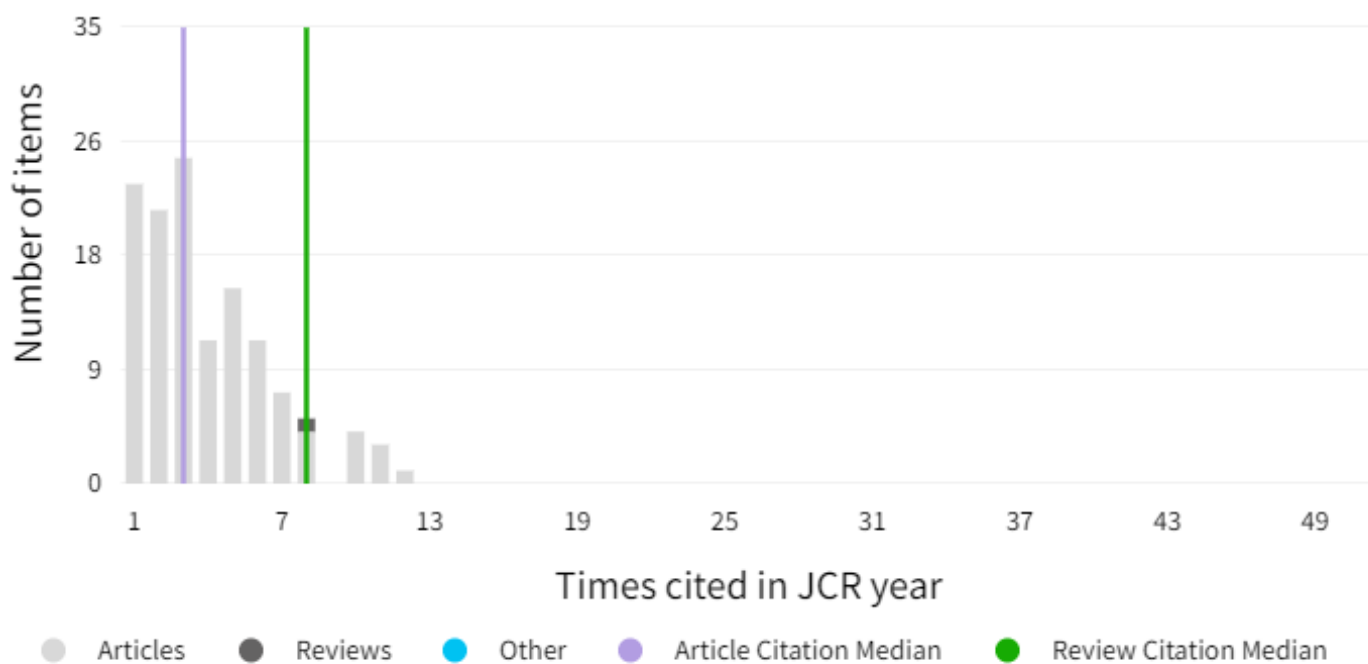
3

REVIEW CITATION MEDIAN

8

UNLINKED CITATIONS

34



0 times cited

ARTICLES

17

REVIEWS

0

OTHER

7

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. For example, in the 2020 JCR data, released in June 2021, the Open Access (OA) data show the publication model (Gold OA or subscription) of materials published in 2018, 2019 and 2020, and citations in 2020 to these items. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal.

Items

TOTAL CITABLE

213

% OF CITABLE OA

9.39%

CITABLE

● GOLD OPEN ACCESS

20 / 8.93%

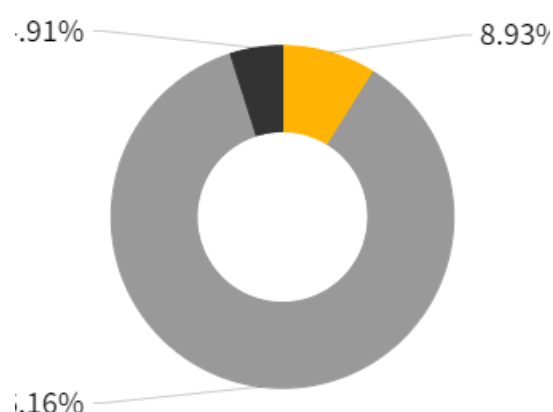
● SUBSCRIPTION OR BRONZE

193 / 86.16%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

11 / 4.91%



Citations*

TOTAL CITABLE

547

% OF CITABLE OA

11.88%

CITABLE

● GOLD OPEN ACCESS

65 / 11.19%

● SUBSCRIPTION OR BRONZE

482 / 82.96%

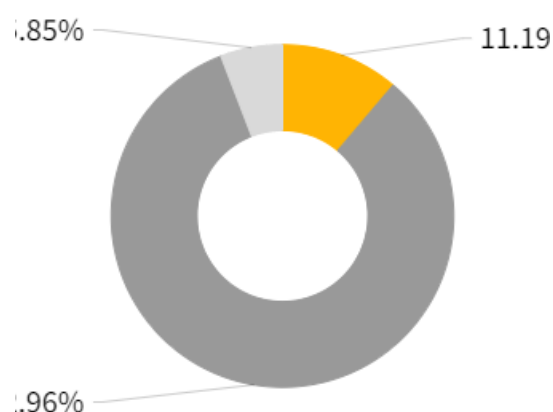
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

0 / 0.00%

● UNLINKED CITATIONS

34 / 5.85%



* Citations in 2021 to items published in (2019-2021)

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.

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

BIOTECHNOLOGY & APPLIED MICROBIOLOGY

72/158

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2021	72/158	Q2	54.75	
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

16/113

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
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.

CATEGORY

BIOTECHNOLOGY & APPLIED MICROBIOLOGY

36/167

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2021	36/167	Q1	78.74	
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

17/121

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2021	17/121	Q1	86.36	
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

9.8 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

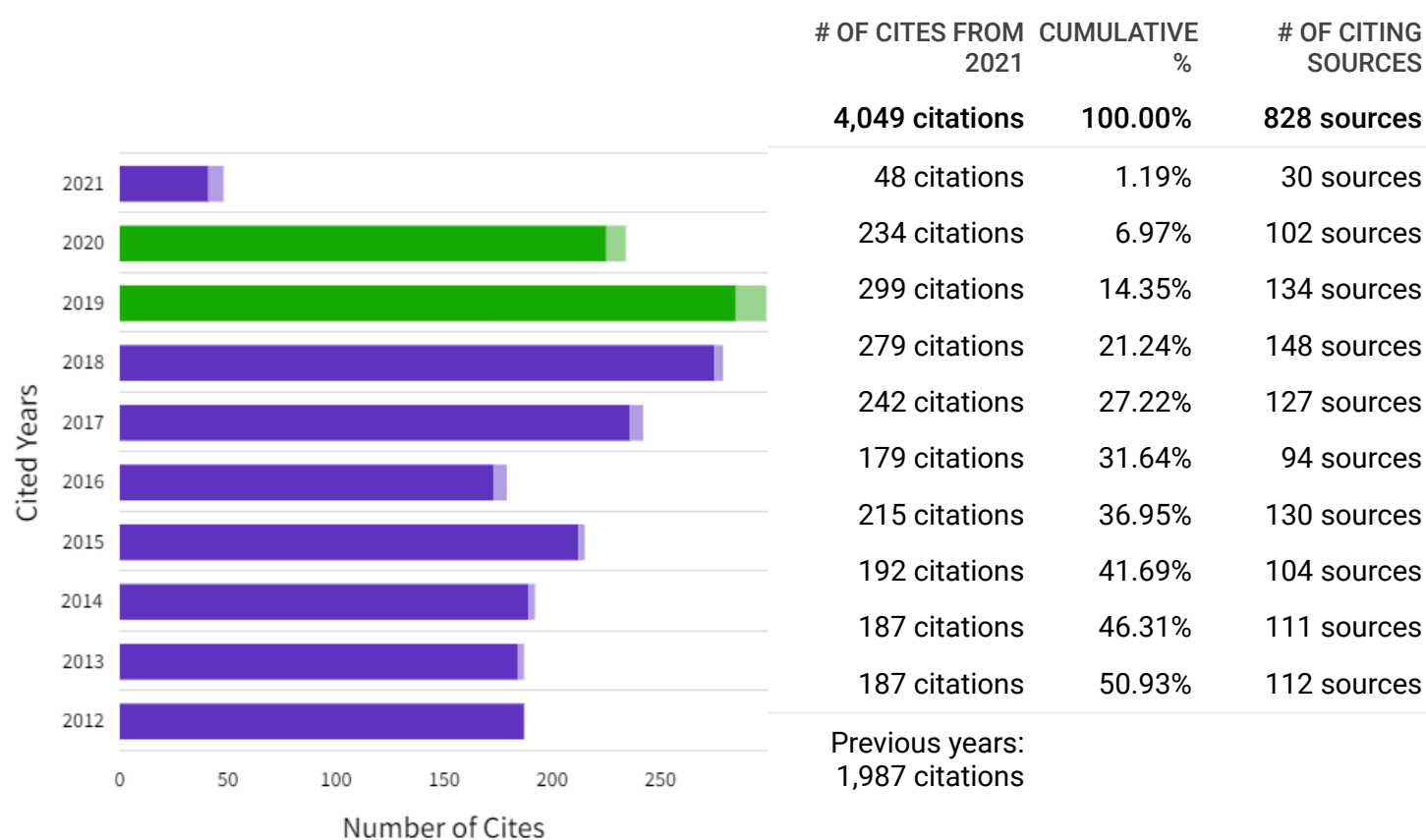
4,049

NON-SELF CITATIONS

3,975

SELF CITATIONS

74



- 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

MARINE BIOTECHNOLOGY

	SOURCE NAME	COUNT
	All Others	401
1	AQUACULTURE	361
2	Marine Drugs	162
3	Frontiers in Marine Science	118
4	Reviews in Aquaculture	80
5	Scientific Reports	76
6	MARINE BIOTECHNOLOGY	74
7	Aquaculture Reports	69
8	FISH & SHELLFISH IMMUNOLOGY	68
9	Frontiers in Genetics	54
10	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	51
11	Frontiers in Microbiology	50
12	BMC GENOMICS	48
13	SCIENCE OF THE TOTAL ENVIRONMENT	48
14	Animals	44
15	AQUACULTURE RESEARCH	43
16	DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY	38
17	Genes	34
18	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	34
19	Algal Research-Biomass Biofuels and Bioproducts	32
20	COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY	32

Showing 1 - 20 rows of 427 total (use export in the relevant section to download the full table)

Citing Half-life

8.4 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

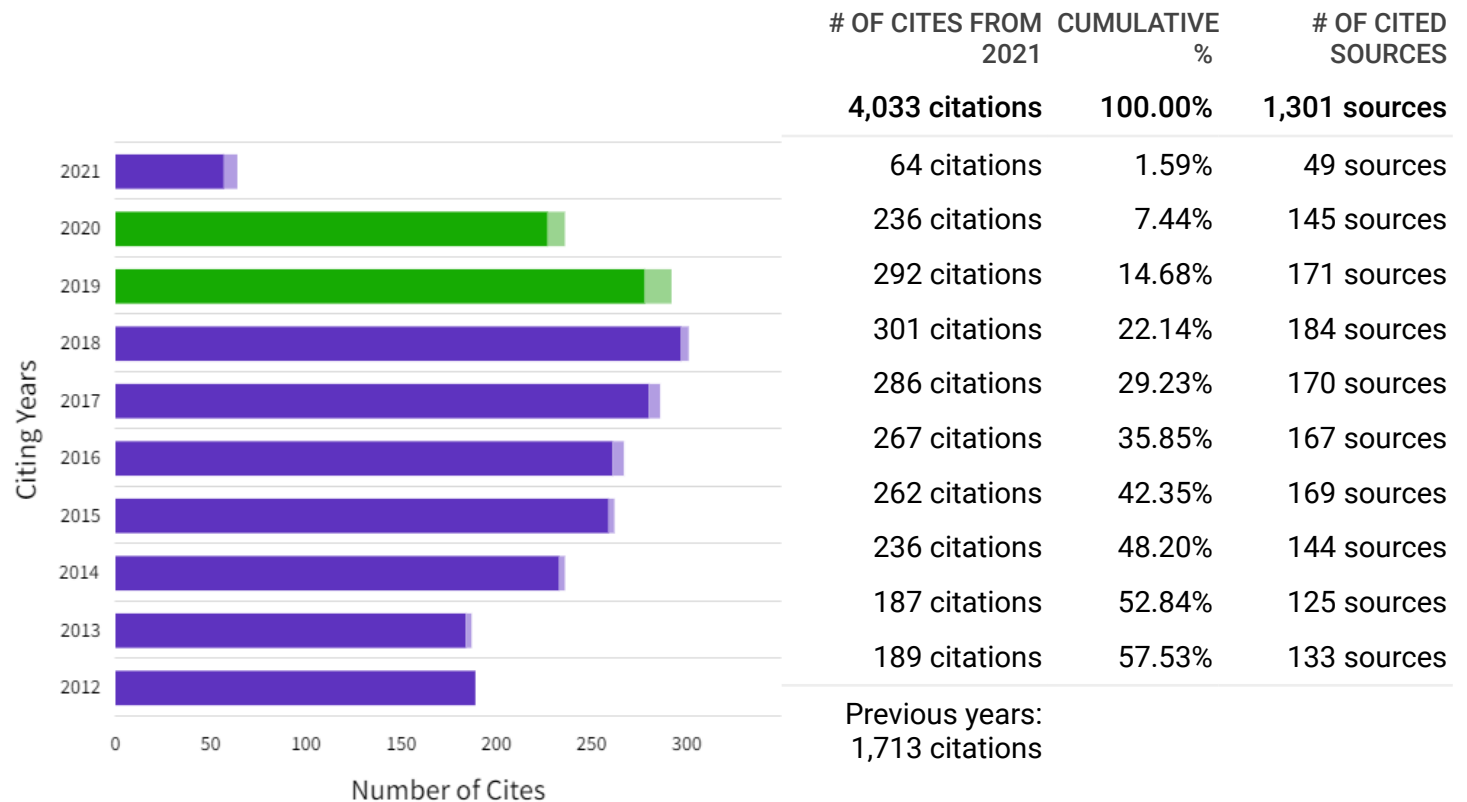
4,033

NON-SELF CITATIONS

3,959

SELF CITATIONS

74



- 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

Cited titles in all years

MARINE BIOTECHNOLOGY

	SOURCE NAME	COUNT
	All Others	780
1	AQUACULTURE	133
2	PLoS One	115
3	MARINE BIOTECHNOLOGY	74
4	BIOINFORMATICS	72
5	NUCLEIC ACIDS RESEARCH	69
6	Scientific Reports	69
7	BMC GENOMICS	67
8	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	66
9	FISH & SHELLFISH IMMUNOLOGY	62
10	JOURNAL OF BIOLOGICAL CHEMISTRY	53
11	Marine Drugs	47
12	NATURE	43
13	SCIENCE	34
14	APPLIED MICROBIOLOGY AND BIOTECHNOLOGY	33
15	CELL	32
16	JOURNAL OF EXPERIMENTAL BIOLOGY	29
17	COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY	28
18	FOOD CHEMISTRY	28
19	GENOME BIOLOGY	28
20	Frontiers in Microbiology	27

Showing 1 - 20 rows of 521 total (use export in the relevant section to download the full table)

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.

70 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2021 (A)	68	2	70	4	95%
NUMBER OF REFERENCES (B)	3,839	190	4,029	4	100%
RATIO (B/A)	56.5	95.0	57.6	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.

ALL CATEGORIES AVERAGE

70.52

EDITION

Science Citation Index Expanded

BIOTECHNOLOGY & APPLIED
MICROBIOLOGY









54.75

MARINE & FRESHWATER BIOLOGY

86.28

Contributions by Organizations









Organizations that have contributed the most papers to the journal in the most recent three-year period.

RANK	ORGANIZATION	COUNT	
1	QINGDAO NATL LAB MARINE SCI & TECHNOL	25	
2	CHINESE ACADEMY OF SCIENCES	20	
3	OCEAN UNIVERSITY OF CHINA	17	
4	XIAMEN UNIVERSITY	11	
5	SUN YAT SEN UNIVERSITY	10	
6	HUNAN NORMAL UNIVERSITY	9	
-	SHANGHAI OCEAN UNIVERSITY	9	
8	CHINESE ACADEMY OF FISHERY SCIENCES	8	

Showing 1 - 8 rows of 350 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.

RANK	COUNTRY/REGION	COUNT	
1	CHINA MAINLAND	103	
2	Japan	33	
3	USA	19	
4	Brazil	15	
5	France	11	
6	India	9	
-	Spain	9	
8	Chile	7	

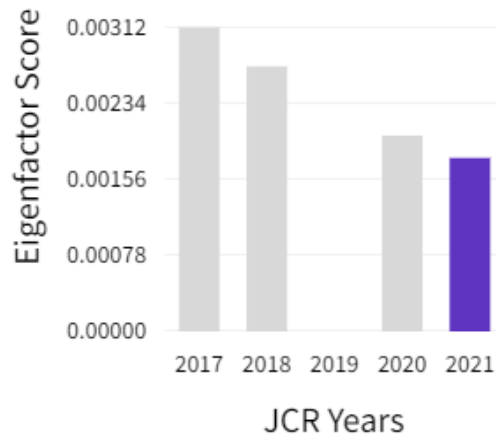
Showing 1 - 8 rows of 41 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00178

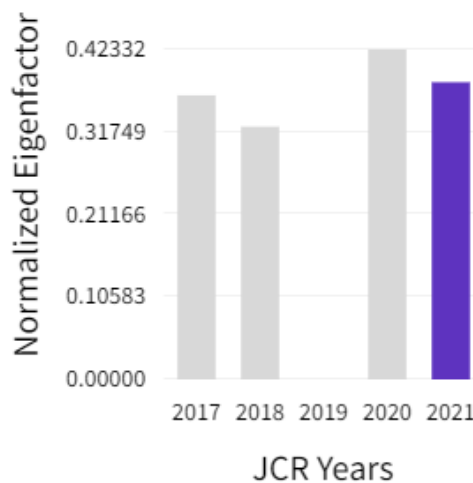
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.38123

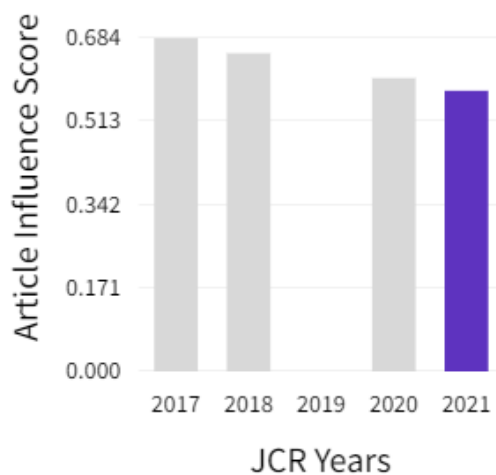
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1.



Article influence score

0.576

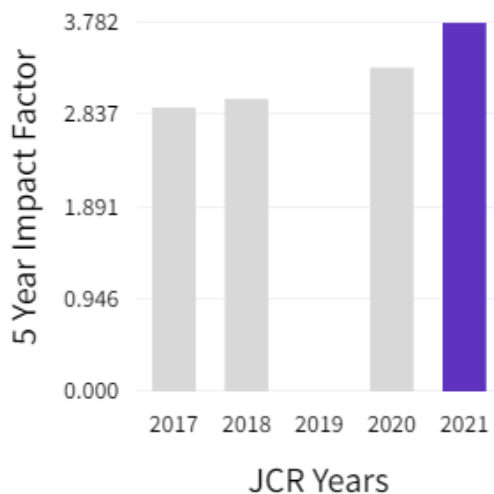
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.



5 year Impact Factor

3.782

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.



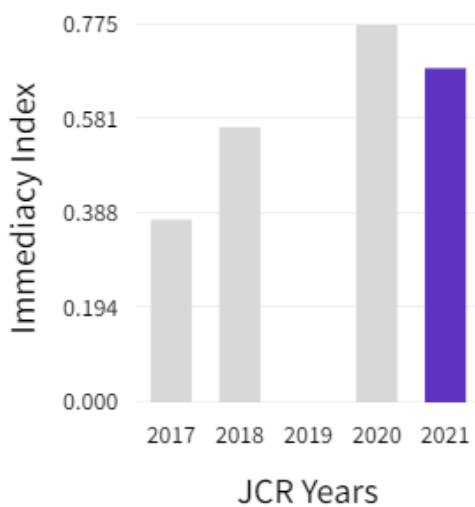
5 year Impact Factor calculation

Citations in 2021 to items published in [2016-2020] (1,233)	=	1,233	=	3.782
Number of citable items in [2016-2020] (326)		326		

Immediacy Index

0.686

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.



Immediacy Index calculation

Cites in 2021 to items published in 2021	48	
<hr/>		48 / 70 = 0.686
Number of items published in 2021	70	