2022 Journal Performance Data for: AMERICAN JOURNAL OF BOTANY

ISSN
0002-9122

EISSN
1537-2197

JCR ABBREVIATION
AM J BOT

ISO ABBREVIATION
Am. J. Bot.

Journal Information

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
PLANT SCIENCES - SCIE

LANGUAGES
English

REGION
USA

1ST ELECTRONIC JCR YEAR
1997

Publisher Information

PUBLISHER
WILEY

ADDRESS
111 RIVER ST, HOBOKEN 07030-5774, NJ

PUBLICATION FREQUENCY
12 issues/year

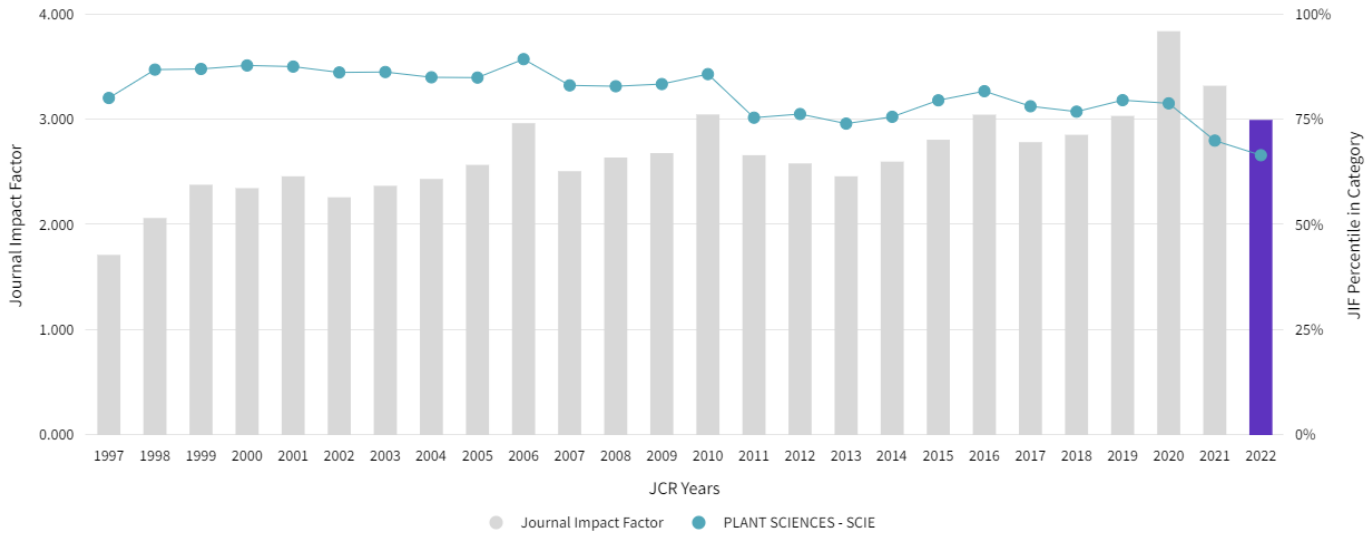
Journal's Performance

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	2022 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
3.0	2.8

Journal Impact Factor Trend 2022



Journal Impact Factor is calculated using the following metrics

$$\frac{\text{Citations in 2022 to items published in 2020 (486) - 2021 (497)}}{\text{Number of citable items in 2020 (149) + 2021 (174)}} = \frac{983}{323} = 3.0$$

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

$$\frac{\text{Citations in 2022 to items published in 2020 (486) + 2021 (497) - Self Citations in 2022 to items published in 2020 (33) + 2021 (37)}}{\text{Number of citable items in 2020 (149) + 2021 (174)}} = \frac{983 - 70}{323} = 2.8$$

Journal Impact Factor Contributing Items

Citable Items (323)

TITLE	CITATION COUNT
Hybrid capture of 964 nuclear genes resolves evolutionary relationships in the mimosoid legumes and reveals the polytomous origins of a large pantropical radiation Authors: Koenen, Erik J. M.;Lewis, Gwilym P.;Pennington, R. Toby;Hughes, Colin E.;Kidner, Catherine;de Souza, Elvia R.;Simon, Marcelo F.;Iganci, Joao R.;Nicholls, James A.;Brown, Gillian K.; et al. Volume: 107 Accession number: WOS:000594075900001 Document Type: Article	24
A nuclear phylogenomic study of the angiosperm order Myrtales, exploring the potential and limitations of the universal Angiosperms353 probe set Authors: Maurin, Olivier;Gallego, Berta;Giaretta, Augusto;Goldenberg, Renato;Goncalves, Deise J. P.;Graham, Shirley;Hoch, Peter;Mazine, Fiorella;Low, Yee Wen;Mcginnie, Catherine; et al. Volume: 108 Accession number: WOS:000676117100001 Document Type: Article	20
Nuclear phylogenomic analyses of asterids conflict with plastome trees and support novel relationships among major lineages Authors: Stull, Gregory W.;Soltis, Pamela S.;Soltis, Douglas E.;Gitzendanner, Matthew A.;Smith, Stephen A. Volume: 107 Accession number: WOS:000532525100001 Document Type: Article	17
Nondestructive estimation of leaf area for 15 species of vines with different leaf shapes Authors: Yu, Xiaojing;Shi, Peijian;Schrader, Julian;Niklas, Karl J. Volume: 107 Accession number: WOS:000587636800001 Document Type: Article	16
Diminishing returns for leaves of five age-groups of Phyllostachys edulis culms Authors: Guo, Xuchen;Shi, Peijian;Niinemets, Ulo;Hoelscher, Dirk;Wang, Rong;Liu, Mengdi;Li, Yirong;Dong, Lina;Niklas, Karl J. Volume: 108 Accession number: WOS:000700327000001 Document Type: Article	13

Showing 1-5 rows of 323 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (287)

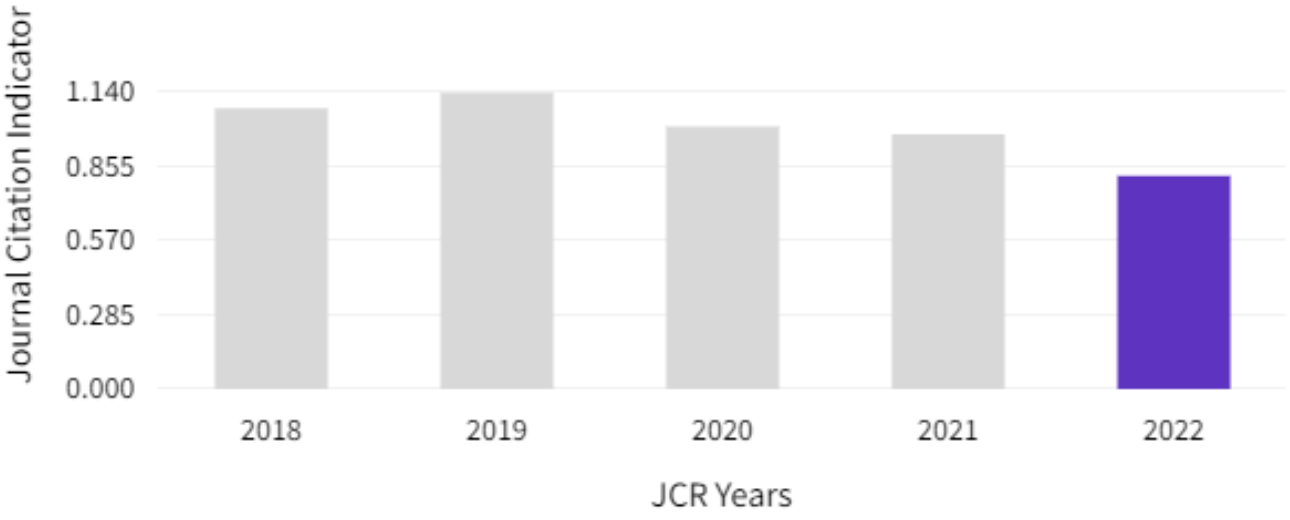
SOURCE NAME	COUNT
FRONTIERS IN PLANT SCIENCE	84
AMERICAN JOURNAL OF BOTANY	70
PLANTS-BASEL	36
NEW PHYTOLOGIST	31
ANNALS OF BOTANY	18
ECOLOGY AND EVOLUTION	18
INTERNATIONAL JOURNAL OF PLANT SCIENCES	17
PHYTOKEYS	17
JOURNAL OF EXPERIMENTAL BOTANY	16
FORESTS	14
GENES	14
JOURNAL OF SYSTEMATICS AND EVOLUTION	13
TAXON	13
BOTANICAL JOURNAL OF THE LINNEAN SOCIETY	11
FLORA	10
JOURNAL OF ECOLOGY	10
JOURNAL OF INTEGRATIVE PLANT BIOLOGY	9
MOLECULAR ECOLOGY RESOURCES	9
PEERJ	9
PERSPECTIVES IN PLANT ECOLOGY EVOLUTION AND SYSTEMATICS	9

Showing 1-20 rows of 287 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.82

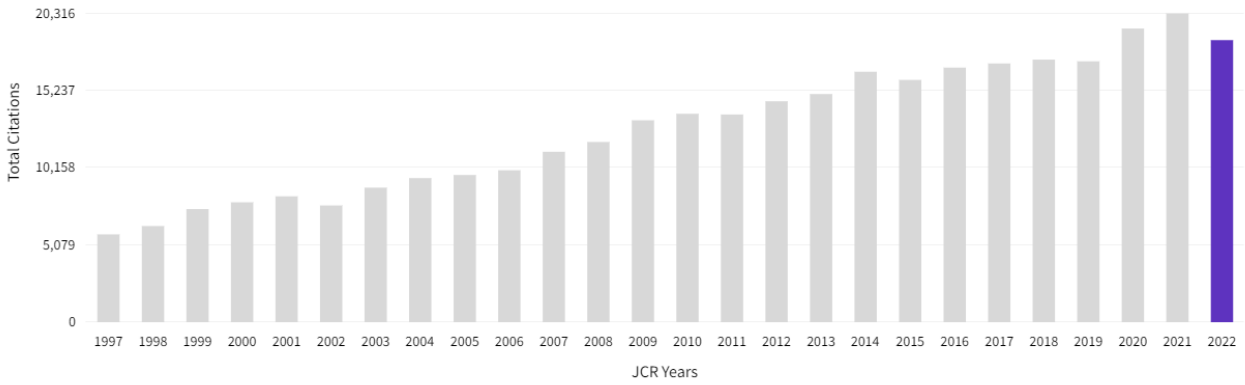
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



Total Citations

18,561

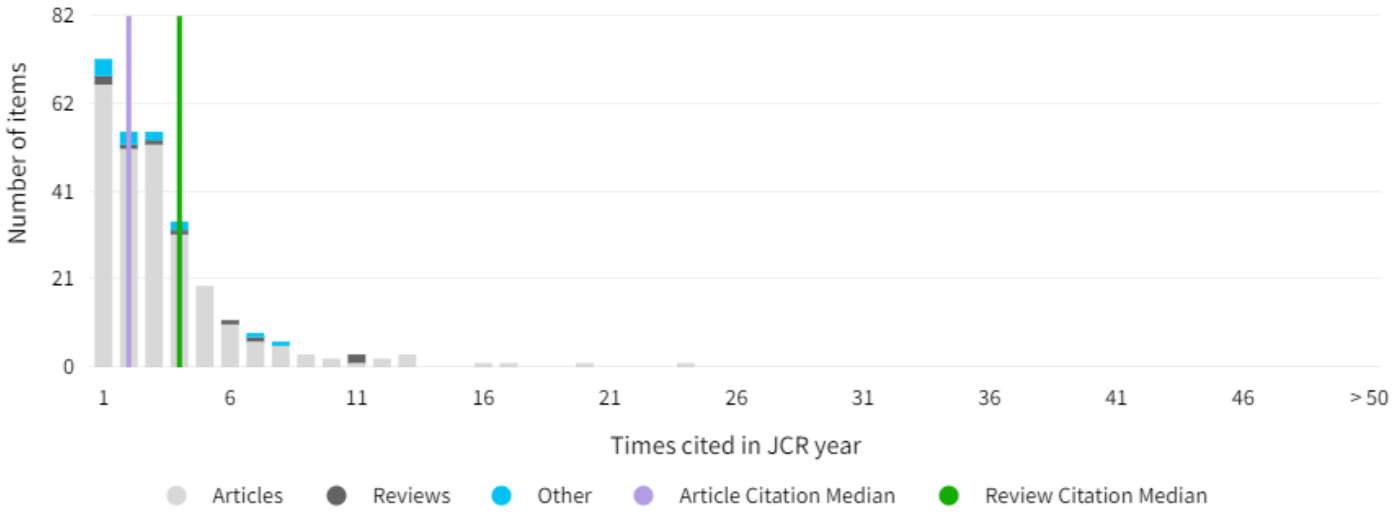
The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



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	REVIEW CITATION MEDIAN	UNLINKED CITATIONS
2	4	15



0 times cited

ARTICLES	REVIEWS	OTHER
59	0	13

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
476

% OF CITABLE OA
28.57%

CITABLE

GOLD OPEN ACCESS
136 / 26.67%

SUBSCRIPTION OR BRONZE
340 / 66.67%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
34 / 6.67%

Citations*

TOTAL CITABLE
1,042

% OF CITABLE OA
31.86%

CITABLE

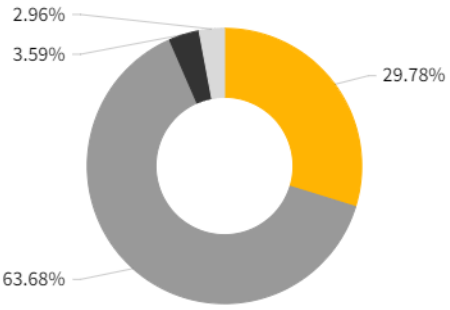
GOLD OPEN ACCESS
332 / 29.78%

SUBSCRIPTION OR BRONZE
710 / 63.68%

NON-CITABLE

OTHER (NON-CITABLE ITEMS)
40 / 3.59%

UNLINKED CITATIONS
33 / 2.96%



* 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

PLANT SCIENCES

80/238

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE
2022	80/238	Q2	66.6
2021	72/239	Q2	70.08
2020	50/235	Q1	78.94
2019	48/234	Q1	79.70
2018	53/228	Q1	76.97
2017	49/223	Q1	78.25
2016	39/212	Q1	81.84
2015	43/209	Q1	79.67
2014	50/204	Q1	75.74
2013	52/199	Q2	74.12
2012	47/197	Q1	76.40
2011	47/190	Q1	75.53
2010	27/188	Q1	85.90
2009	29/173	Q1	83.53
2008	27/156	Q1	83.01
2007	26/152	Q1	83.22
2006	16/147	Q1	89.46
2005	22/144	Q1	85.07
2004	21/138	Q1	85.14
2003	19/136	Q1	86.40
2002	19/135	Q1	86.30
2001	17/134	Q1	87.69
2000	17/137	Q1	87.96
1999	18/136	Q1	87.13
1998	19/142	Q1	86.97
1997	28/139	Q1	80.22

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

PLANT SCIENCES

72/262

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE
2022	72/262	Q2	72.71
2021	52/259	Q1	80.12
2020	50/251	Q1	80.28
2019	39/251	Q1	84.66
2018	49/248	Q1	80.44
2017	42/239	Q1	82.64

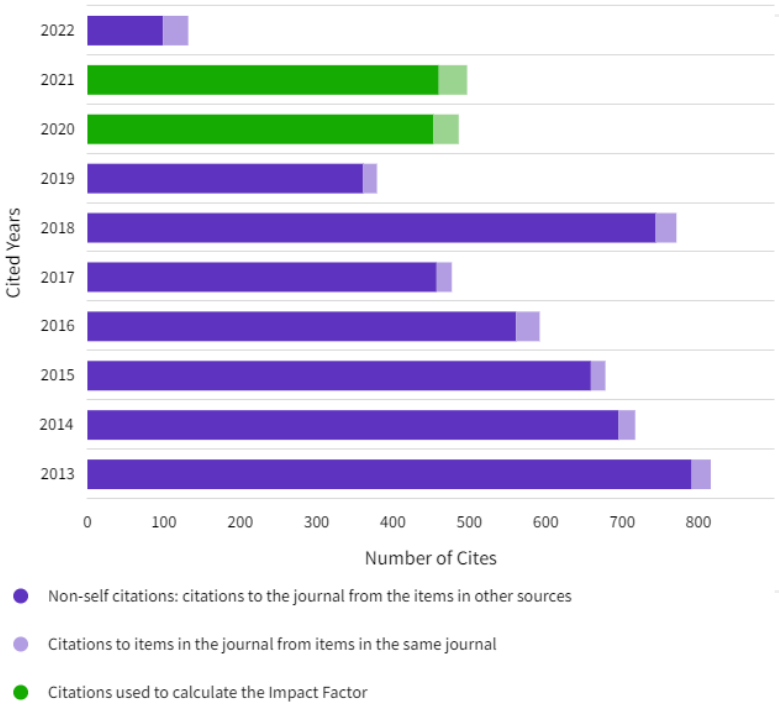
Citation network

Cited Half-life

16.0 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	NON-SELF CITATIONS	SELF CITATIONS
18,561	17,907	654



# OF CITES FROM 2022	CUMULATIVE %	# OF CITING SOURCES
18,561 citations	**100.00%**	**1,646 sources**
132 citations	0.71%	62 sources
497 citations	3.39%	182 sources
486 citations	6.01%	208 sources
379 citations	8.05%	196 sources
771 citations	12.20%	252 sources
477 citations	14.77%	218 sources
592 citations	17.96%	218 sources
678 citations	21.62%	303 sources
717 citations	25.48%	278 sources
816 citations	29.87%	315 sources
Previous years: 13,016 citations		

Citing titles in all years

AMERICAN JOURNAL OF BOTANY

	SOURCE NAME	COUNT
	All Others	669
1	Frontiers in Plant Science	1,022
2	Plants-Basel	719
3	AMERICAN JOURNAL OF BOTANY	654
4	NEW PHYTOLOGIST	301
5	Ecology and Evolution	270
6	ANNALS OF BOTANY	258
7	Scientific Reports	252
8	Phytotaxa	248
9	Forests	244
10	FLORA	212
11	BOTANICAL JOURNAL OF THE LINNEAN SOCIETY	211
12	INTERNATIONAL JOURNAL OF PLANT SCIENCES	208
13	JOURNAL OF EXPERIMENTAL BOTANY	198
14	Diversity-Basel	192
15	Journal of Systematics and Evolution	170
16	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	166
17	BMC PLANT BIOLOGY	165
18	Genes	164
19	Frontiers in Ecology and Evolution	162
20	MOLECULAR PHYLOGENETICS AND EVOLUTION	158

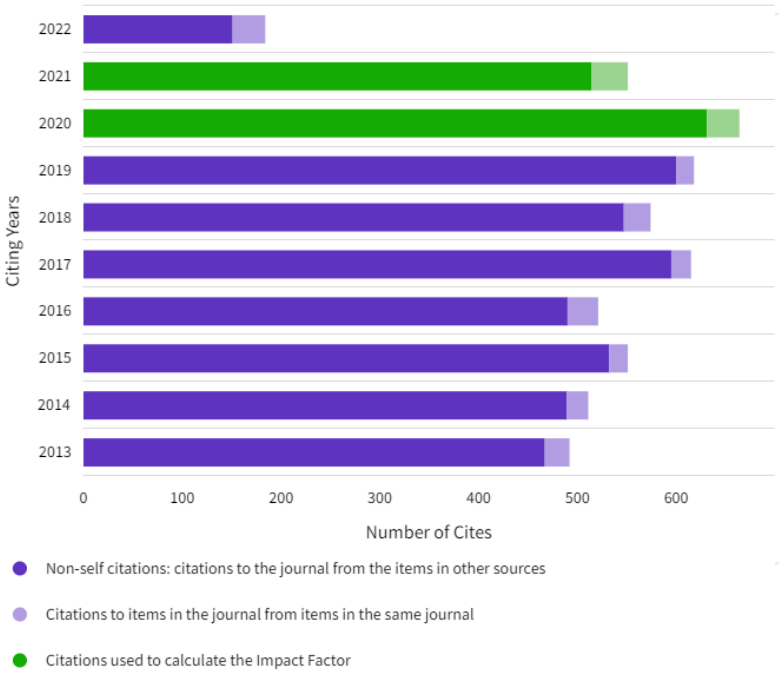
Showing 1 - 20 rows of 956 total (use export in the relevant section to download the full table)

Citing Half-life

12.0 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	NON-SELF CITATIONS	SELF CITATIONS
12,466	11,812	654



# OF CITES FROM 2022	CUMULATIVE %	# OF CITED SOURCES
12,466 citations	**100.00%**	**2,286 sources**
184 citations	1.48%	93 sources
551 citations	5.90%	207 sources
664 citations	11.22%	244 sources
618 citations	16.18%	221 sources
574 citations	20.78%	222 sources
615 citations	25.72%	230 sources
521 citations	29.90%	196 sources
551 citations	34.32%	219 sources
511 citations	38.42%	182 sources
492 citations	42.36%	197 sources
Previous years: 7,185 citations		

Cited titles in all years

AMERICAN JOURNAL OF BOTANY

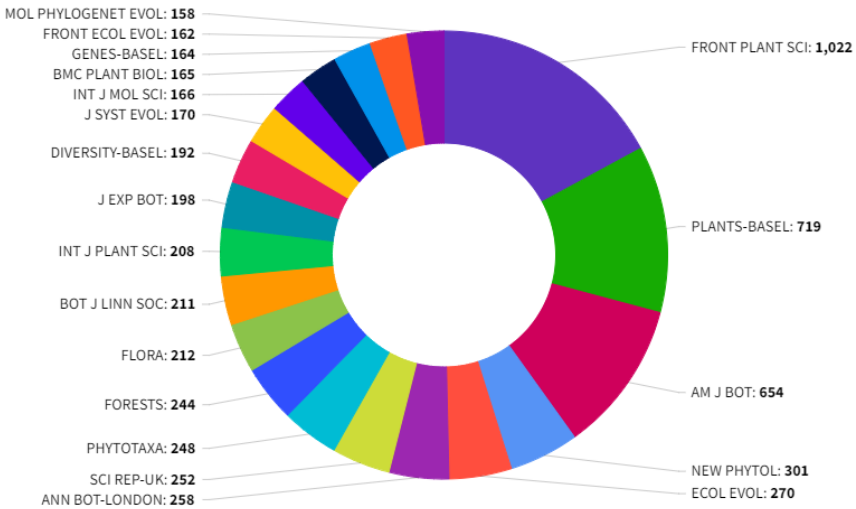
	SOURCE NAME	COUNT
	All Others	1,549
1	AMERICAN JOURNAL OF BOTANY	654
2	NEW PHYTOLOGIST	472
3	EVOLUTION	427
4	ANNALS OF BOTANY	293
5	ECOLOGY	266
6	AMERICAN NATURALIST	234
7	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	222
8	JOURNAL OF ECOLOGY	203
9	INTERNATIONAL JOURNAL OF PLANT SCIENCES	177
10	OECOLOGIA	167
11	ECOLOGY LETTERS	154
12	SCIENCE	154
13	Systematic Biology	147
14	MOLECULAR ECOLOGY	144
15	PLoS One	141
16	Annual Review of Ecology Evolution and Systematics	140
17	NATURE	139
18	TRENDS IN ECOLOGY & EVOLUTION	138
19	PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES	128
20	MOLECULAR BIOLOGY AND EVOLUTION	123

Showing 1 - 20 rows of 445 total (use export in the relevant section to download the full table)

Journal Citation Relationships

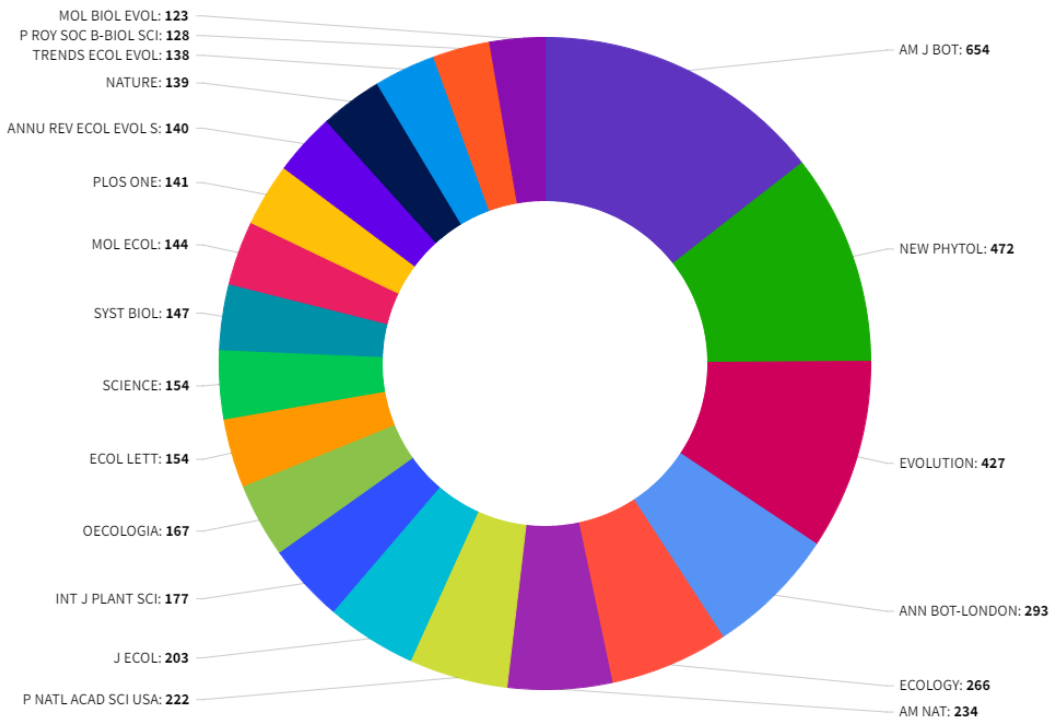
Cited Data

Top 20 journals citing AM J BOT by number of citations



Citing Data

Top 20 journals cited by AM J BOT 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

153 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2022 (A)	150	3	153	8	95%
NUMBER OF REFERENCES (B)	11,908	434	12,342	124	99%
RATIO (B/A)	79.4	144.7	80.7	15.5	

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

66.6

EDITION

Science Citation Index Expanded

PLANT SCIENCES

66.6

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 CALIFORNIA SYSTEM	55
2	STATE UNIVERSITY SYSTEM OF FLORIDA	32
3	CORNELL UNIVERSITY	31
4	ROYAL BOTANIC GARDENS, KEW	24
5	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	22
-	UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	22
7	SMITHSONIAN INSTITUTION	20
8	CALIFORNIA STATE UNIVERSITY SYSTEM	19

Showing 1 - 8 rows of 705 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	317
2	England	51
3	CHINA MAINLAND	44
4	Canada	40
-	GERMANY (FED REP GER)	40
6	Spain	39
7	Mexico	36
8	Brazil	33

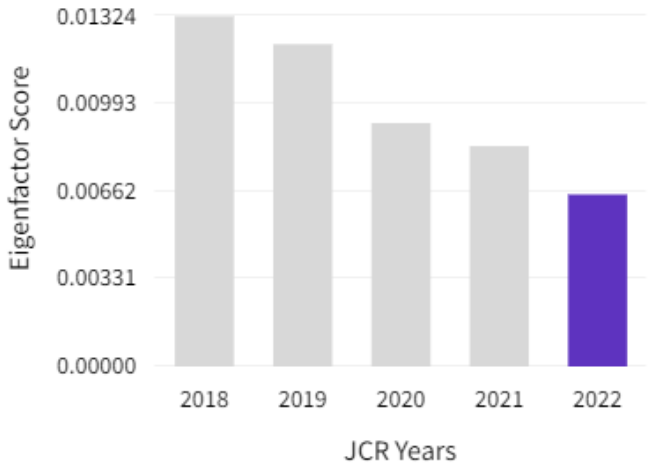
Showing 1 - 8 rows of 64 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00650

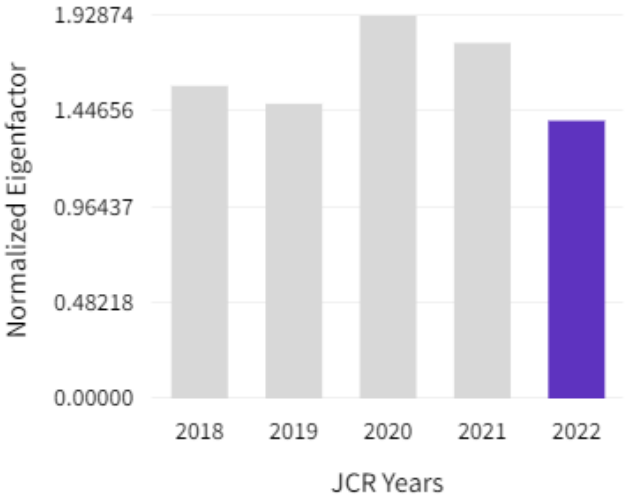
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

1.39973

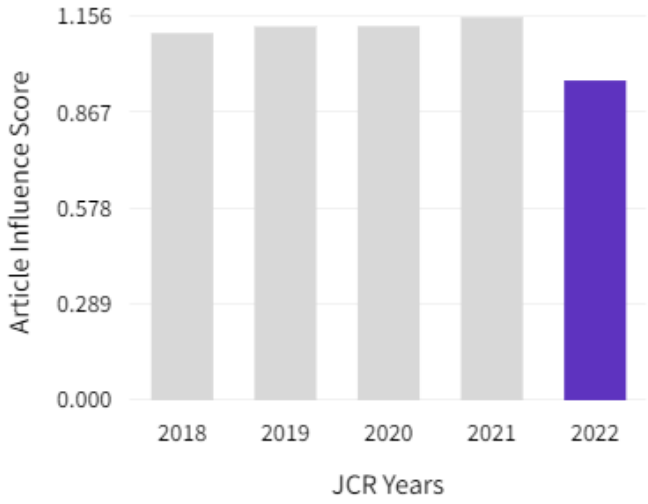
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. Learn more



Article influence score

0.965

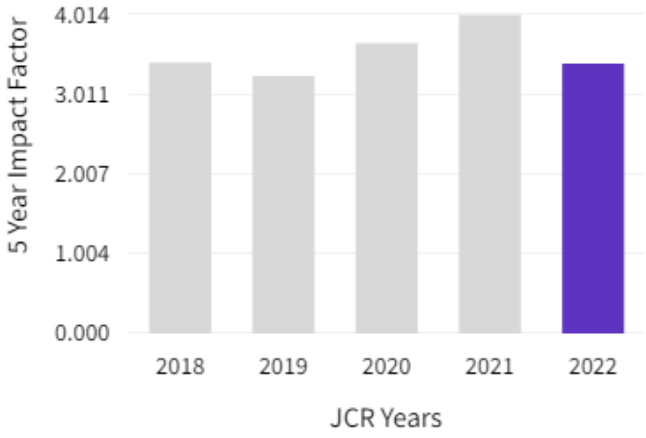
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.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



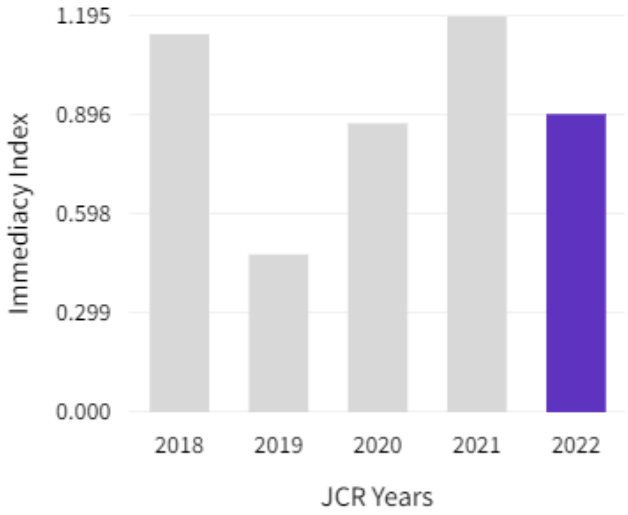
5 year Impact Factor calculation

$$\frac{\text{Citations in 2022 to items published in [2017-2021] (2,610)}}{\text{Number of citable items in [2017-2021] (764)}} = \frac{2{,}610}{764} = 3.4$$

Immediacy Index

0.9

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	132	132 / 153 = 0.9
Number of items published in 2022	153	

