

# 2021 Journal Performance Data for: AMERICAN JOURNAL OF BOTANY

ISSN	EISSN
0002-9122	1537-2197
JCR ABBREVIATION	ISO ABBREVIATION
AM J BOT	Am. J. Bot.

## Journal Information

EDITION	CATEGORY	
Science Citation Index Expanded (SCIE)	PLANT SCIENCES - SCIE	
LANGUAGES	REGION	1ST ELECTRONIC JCR YEAR
English	USA	1997

## Publisher Information

PUBLISHER	ADDRESS	PUBLICATION FREQUENCY
WILEY	111 RIVER ST, HOBOKEN 07030-5774, NJ	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.

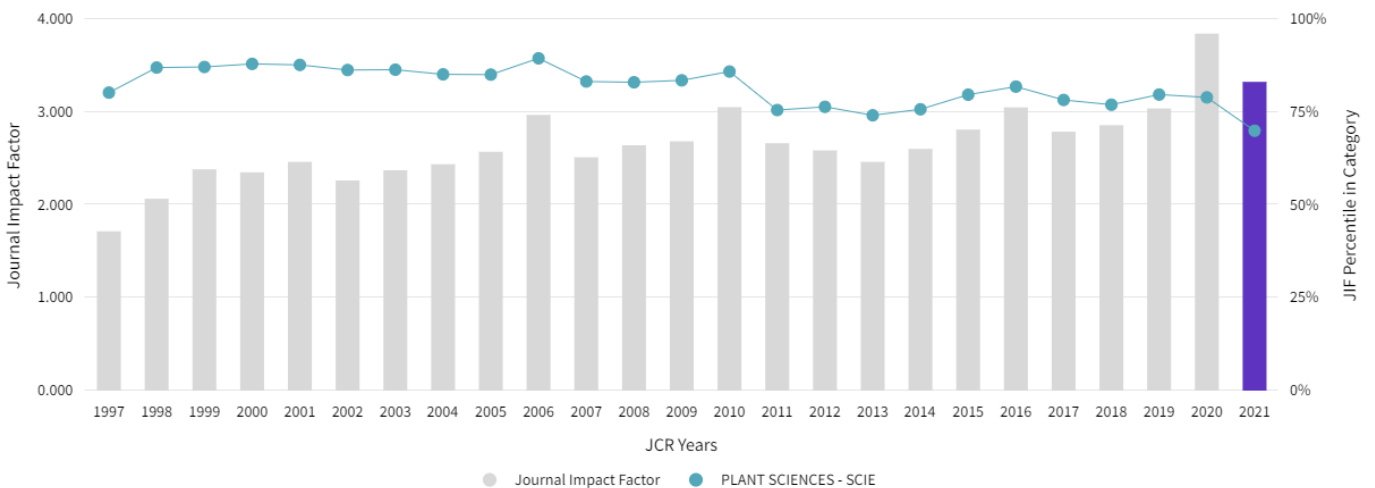
2021 JOURNAL IMPACT FACTOR

**3.325**

2021 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

**3.106**

### Journal Impact Factor Trend 2021



Journal Impact Factor is calculated using the following metrics


$$\frac{\text{Citations in 2021 to items published in 2019 (468) - 2020 (413)}}{\text{Number of citable items in 2019 (119) + 2020 (146)}} = \frac{881}{265} = 3.325$$

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

$$\frac{\text{Citations in 2021 to items published in 2019 (468) + 2020 (413) - Self Citations in 2021 to items published in 2019 (26) + 2020 (32)}}{\text{Number of citable items in 2019 (119) + 2020 (146)}} = \frac{881 - 58}{265} = 3.106$$

## Journal Impact Factor Contributing Items

### Citable Items (265)

TITLE	CITATION COUNT
<p>Tracking temporal shifts in area, biomes, and pollinators in the radiation of <i>Salvia</i> (sages) across continents: leveraging anchored hybrid enrichment and targeted sequence data</p> <p>Authors: Kriebel, Ricardo;Walker, Jay B.;Lemmon, Emily M.;Lemmon, Alan R.;Sytsma, Kenneth J.;Drew, Bryan T.;Drummond, Chloe P.;Gonzalez-Gallegos, Jesus G.;Celep, Ferhat;Mandjoub, Mohamed M.; et al.</p> <p>Volume: 106</p> <p>Accession number: WOS:000467840300007</p> <p>Document Type: Article</p>	15 
<p>Nuclear phylogenomic analyses of asterids conflict with plastome trees and support novel relationships among major lineages</p> <p>Authors: Stull, Gregory W.;Soltis, Pamela S.;Soltis, Douglas E.;Gitzendanner, Matthew A.;Smith, Stephen A.</p> <p>Volume: 107</p> <p>Accession number: WOS:000532525100001</p> <p>Document Type: Article</p>	14
<p>Phylogenomics in Cactaceae: A case study using the chollas sensu lato (<i>Cylindropuntieae</i>, <i>Opuntioideae</i>) reveals a common pattern out of the Chihuahuan and Sonoran deserts</p> <p>Authors: Majure, Lucas C.;Baker, Marc A.;Cloud-Hughes, Michelle;Salywon, Andrew;Neubig, Kurt M.</p> <p>Volume: 106</p> <p>Accession number: WOS:000491490000006</p> <p>Document Type: Article</p>	13
<p>The monocotyledonous underground: global climatic and phylogenetic patterns of geophyte diversity</p> <p>Authors: Howard, Cody Coyotee;Folk, Ryan A.;Beaulieu, Jeremy M.;Cellinese, Nico</p> <p>Volume: 106</p> <p>Accession number: WOS:000472196100009</p> <p>Document Type: Article</p>	11
<p>Autopolyploid lineage shows climatic niche expansion but not divergence in <i>Arabidopsis arenosa</i></p> <p>Authors: Franchesco Molina-Henao, Y.;Hopkins, Robin</p> <p>Volume: 106</p> <p>Accession number: WOS:000456027300007</p> <p>Document Type: Article</p>	11

Showing 1-5 rows of 265 total (use export in the relevant section to download the full table)

## Journal Impact Factor Contributing Items

### Citing Sources (297)

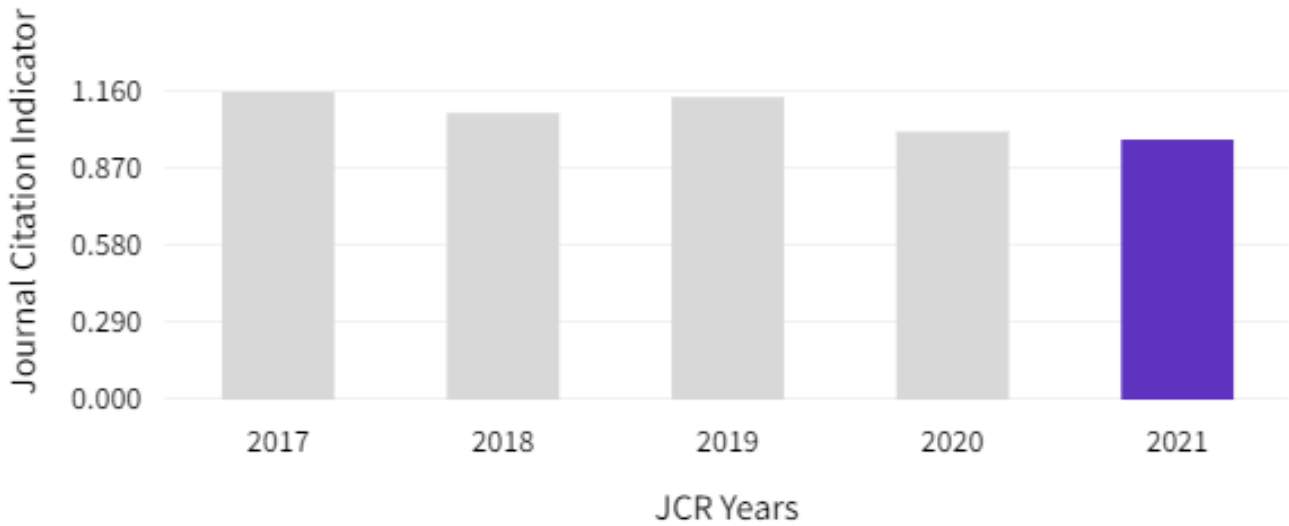
SOURCE NAME	COUNT
AMERICAN JOURNAL OF BOTANY	58
NEW PHYTOLOGIST	32
FRONTIERS IN PLANT SCIENCE	30
PLANTS-BASEL	17
ANNALS OF BOTANY	15
JOURNAL OF SYSTEMATICS AND EVOLUTION	14
FRONTIERS IN ECOLOGY AND EVOLUTION	13
ECOLOGY AND EVOLUTION	13
INTERNATIONAL JOURNAL OF PLANT SCIENCES	13
FLORA	10
JOURNAL OF ECOLOGY	10
PLANT BIOLOGY	10
SYSTEMATIC BIOLOGY	10
JOURNAL OF EXPERIMENTAL BOTANY	10
SCIENTIFIC REPORTS	10
FORESTS	10
PHYTOTAXA	9
PLANT JOURNAL	9
FOREST ECOLOGY AND MANAGEMENT	8
JOURNAL OF BIOGEOGRAPHY	8

Showing 1-20 rows of 297 total (use export in the relevant section to download the full table)

## Journal Citation Indicator (JCI)

0.98

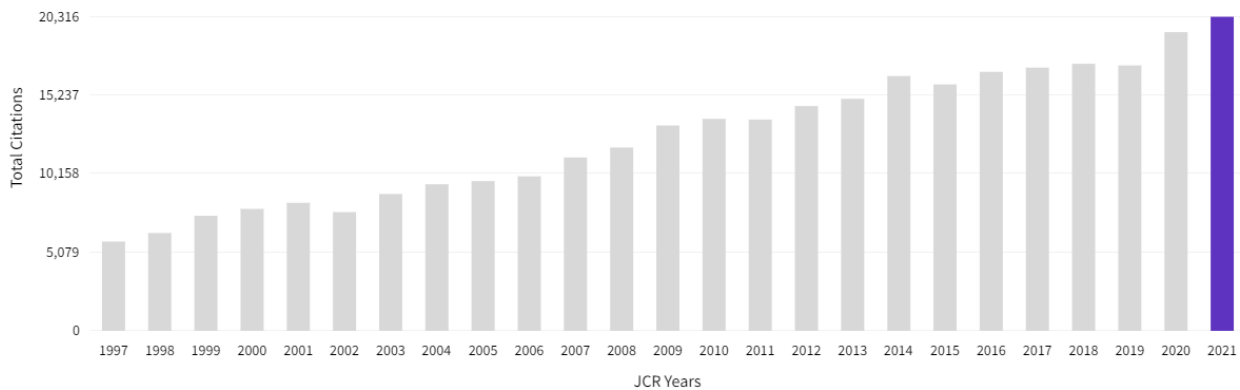
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in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



## Total Citations

20,316

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

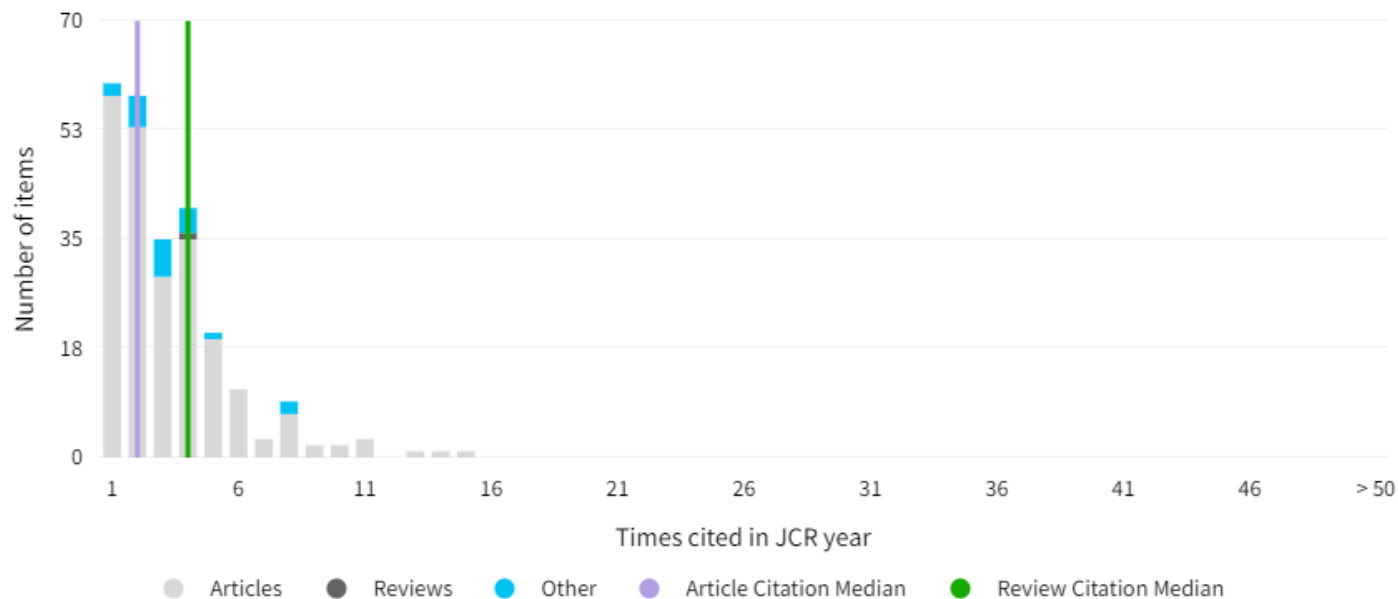
**2**

REVIEW CITATION MEDIAN

**4**

UNLINKED CITATIONS

**68**



## 0 times cited

ARTICLES

**39**

REVIEWS

**0**

OTHER

**12**

## 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

**439**

% OF CITABLE OA

**20.05%**

CITABLE

● GOLD OPEN ACCESS

88 / 18.37%

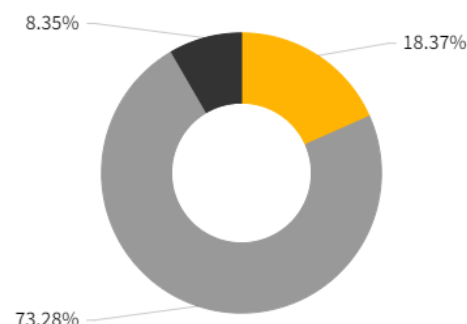
● SUBSCRIPTION OR BRONZE

351 / 73.28%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

40 / 8.35%



### Citations\*

TOTAL CITABLE

**920**

% OF CITABLE OA

**20.65%**

CITABLE

● GOLD OPEN ACCESS

190 / 17.45%

● SUBSCRIPTION OR BRONZE

730 / 67.03%

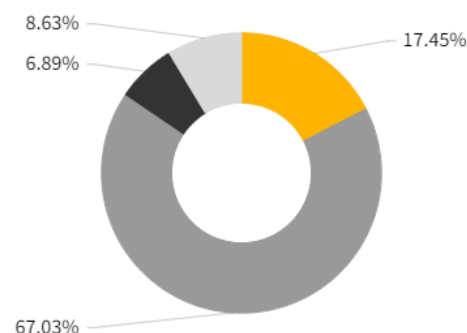
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

75 / 6.89%

● UNLINKED CITATIONS

94 / 8.63%



\* 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

PLANT SCIENCES

**72/238**

JCR YEAR	JIF RANK	QUARTILE	JIF PERCENTILE	
2021	72/238	Q2	69.96	
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)


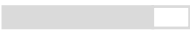



Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years 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.

### CATEGORY

PLANT SCIENCES

**51/258**

JCR YEAR	JCI RANK	QUARTILE	JCI PERCENTILE	
2021	51/258	Q1	80.43	
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

15.7 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

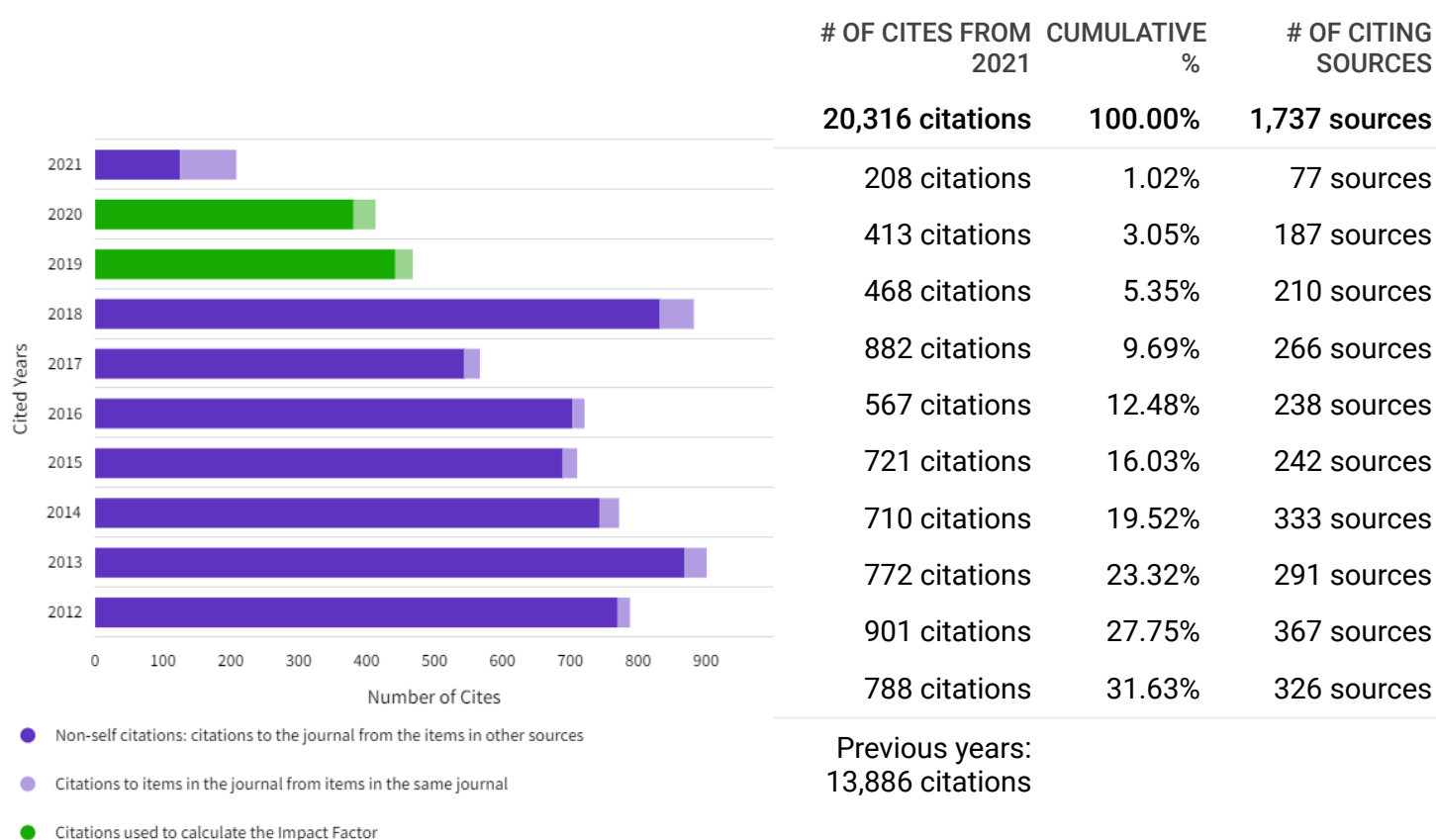
20,316

NON-SELF CITATIONS

19,562

SELF CITATIONS

754



## Citing titles in all years

### AMERICAN JOURNAL OF BOTANY

	SOURCE NAME	COUNT
	All Others	709
1	AMERICAN JOURNAL OF BOTANY	754
2	Frontiers in Plant Science	749
3	Plants-Basel	551
4	NEW PHYTOLOGIST	418
5	MOLECULAR PHYLOGENETICS AND EVOLUTION	309
6	BOTANICAL JOURNAL OF THE LINNEAN SOCIETY	306
7	INTERNATIONAL JOURNAL OF PLANT SCIENCES	295
8	Scientific Reports	275
9	Phytotaxa	264
10	ANNALS OF BOTANY	253
11	Forests	244
12	Ecology and Evolution	238
13	REVIEW OF PALAEOBOTANY AND PALYNOLOGY	224
14	Journal of Systematics and Evolution	207
15	FLORA	194
16	PLoS One	188
17	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	173
18	Frontiers in Ecology and Evolution	170
19	JOURNAL OF EXPERIMENTAL BOTANY	162
20	PeerJ	155

Showing 1 - 20 rows of 1028 total (use export in the relevant section to download the full table)

# Citing Half-life

## 11.8 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

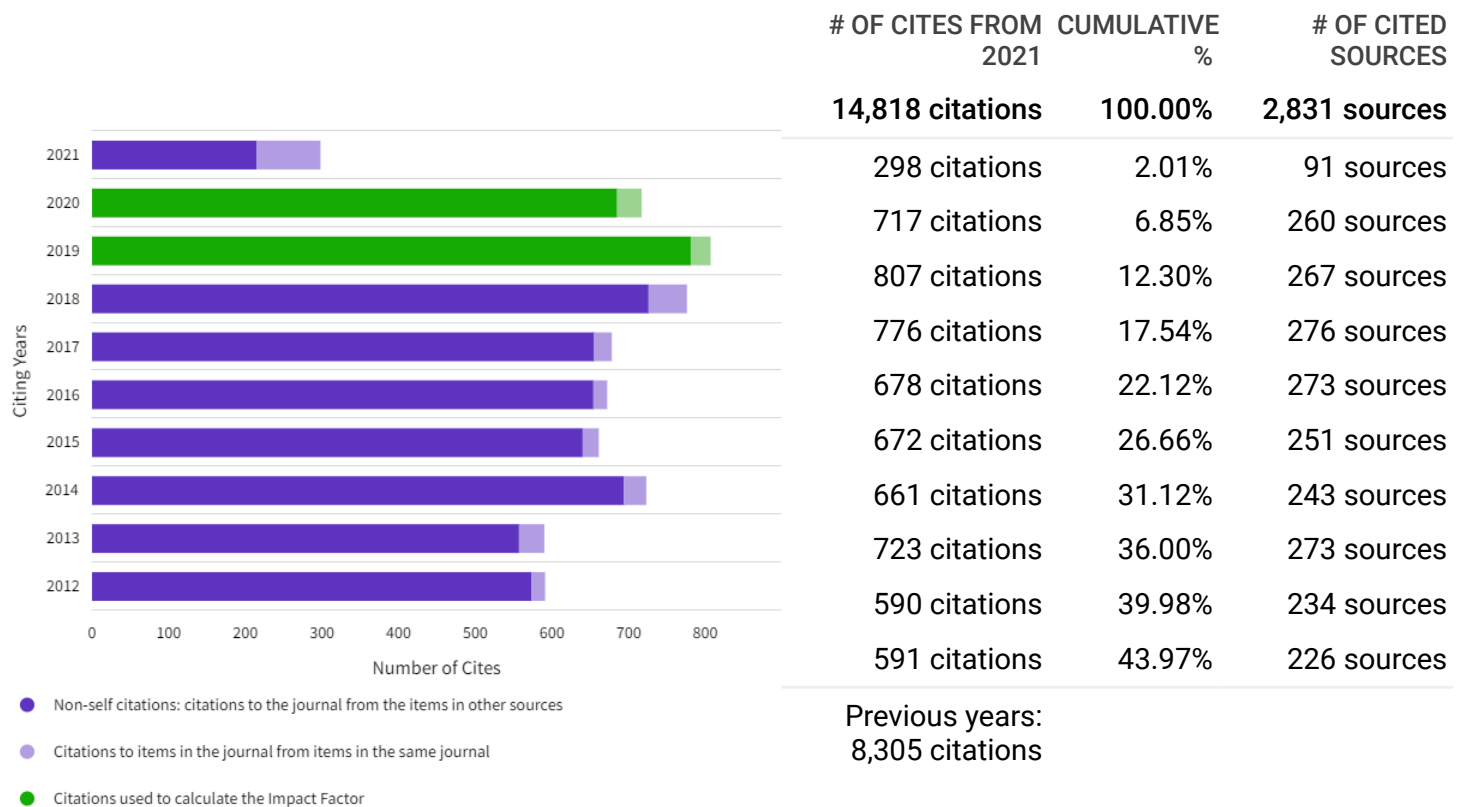
14,818

NON-SELF CITATIONS

14,064

SELF CITATIONS

754



## Cited titles in all years

### AMERICAN JOURNAL OF BOTANY

	SOURCE NAME	COUNT
	All Others	1,818
1	AMERICAN JOURNAL OF BOTANY	754
2	NEW PHYTOLOGIST	455
3	EVOLUTION	285
4	ANNALS OF BOTANY	256
5	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	246
6	ECOLOGY	216
7	MOLECULAR ECOLOGY	213
8	BIOINFORMATICS	209
9	SYSTEMATIC BIOLOGY	204
10	NATURE	190
11	MOLECULAR PHYLOGENETICS AND EVOLUTION	187
12	PLoS One	176
13	MOLECULAR BIOLOGY AND EVOLUTION	173
14	INTERNATIONAL JOURNAL OF PLANT SCIENCES	165
15	OECOLOGIA	164
16	AMERICAN NATURALIST	158
17	BOTANICAL JOURNAL OF THE LINNEAN SOCIETY	156
18	TAXON	153
19	SCIENCE	149
20	JOURNAL OF ECOLOGY	145

Showing 1 - 20 rows of 1013 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.

### 174 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2021 (A)	166	8	174	8	96%
NUMBER OF REFERENCES (B)	13,401	1,214	14,615	203	99%
RATIO (B/A)	80.7	151.8	84.0	25.4	

## 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

**69.96**

EDITION









Science Citation Index Expanded

PLANT SCIENCES

**69.96**

## Contributions by Organizations









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

RANK	ORGANIZATION	COUNT	
1	UNIVERSITY OF CALIFORNIA SYSTEM	53	
2	STATE UNIVERSITY SYSTEM OF FLORIDA	29	
3	LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES - LERU	26	
4	CORNELL UNIVERSITY	24	
5	UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)	23	
6	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	22	
7	UNIVERSITY OF MINNESOTA SYSTEM	20	
8	ROYAL BOTANIC GARDENS, KEW	19	

Showing 1 - 8 rows of 663 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	USA	310	
2	England	45	
3	Canada	42	
4	Spain	39	
5	CHINA MAINLAND	38	
6	Mexico	35	
7	Brazil	32	
8	France	31	

Showing 1 - 8 rows of 65 total (use export in the relevant section to download the full table)

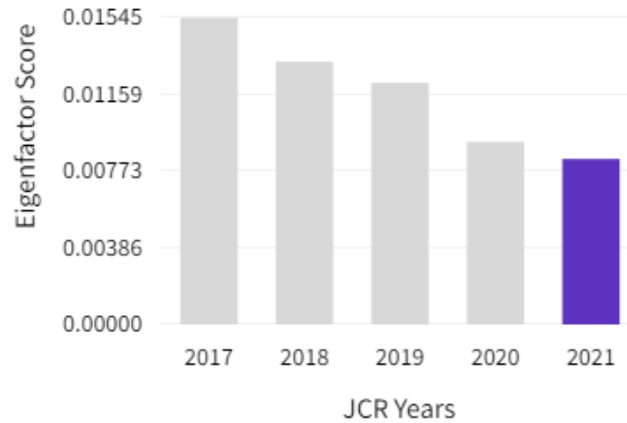


# Additional metrics

## Eigenfactor score

**0.00834**

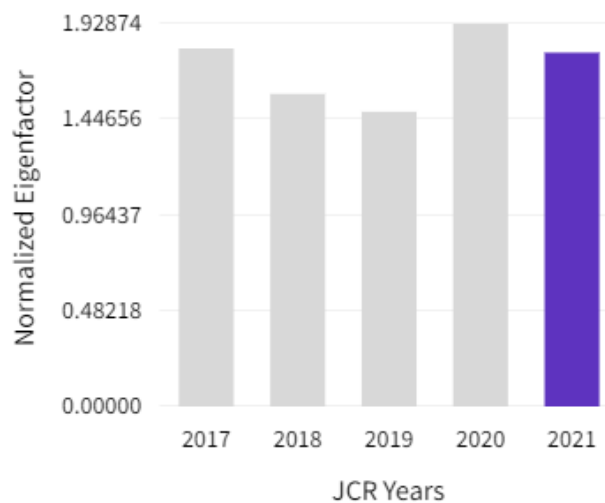
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



## Normalized Eigenfactor

**1.78328**

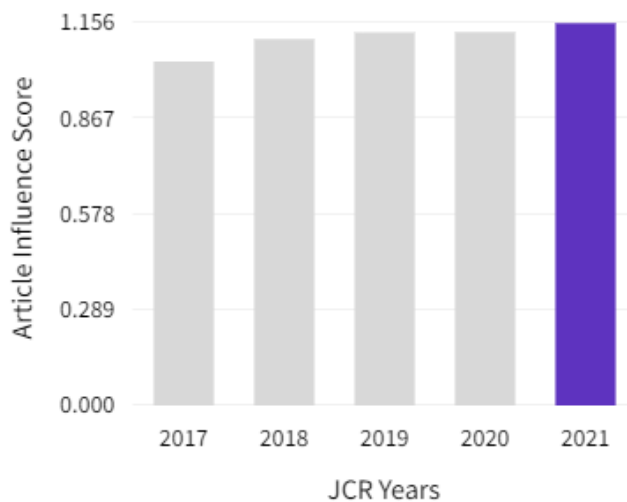
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1.



## Article influence score

**1.156**

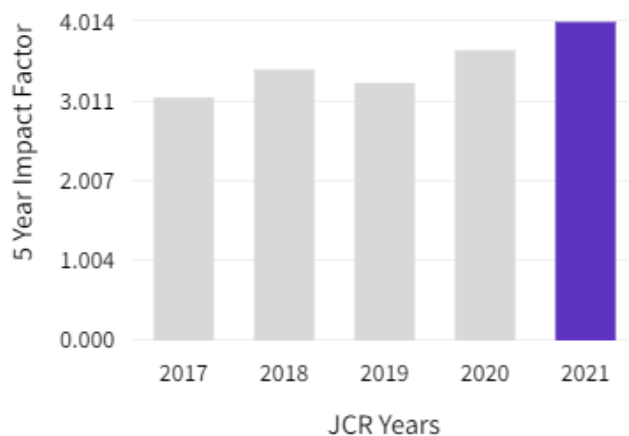
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.



# 5 year Impact Factor

## 4.014

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.



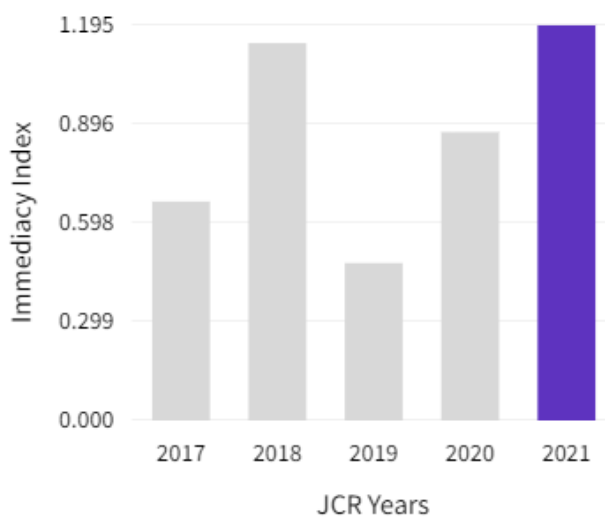
5 year Impact Factor calculation

Citations in 2021 to items published in [2016-2020] (3,051)					
<hr/>					
Number of citable items in [2016-2020] (760)	=	$\frac{3,051}{760}$	=	4.014	

# Immediacy Index

## 1.195

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	208	
<hr/>		208 / 174 = 1.195
Number of items published in 2021	174	