

2022 Mid-Year Report (January - May 2022)

Botanical Society of America

American Journal of Botany
Applications in Plant Sciences

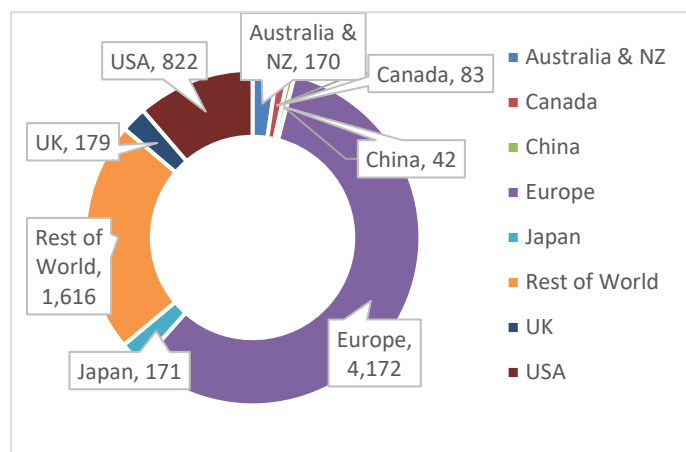
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WILEY

Sales, Circulation & Readership

1. Global Reach: Institutional Reach – A/JB



In 2022, 7,255 institutions offered access to the latest content in your journal via either a Wiley License or a traditional (title-by-title) subscription.

2. Institutional Reach by Region – A/JB

Region	2020	2021	2022
Australia & NZ	173	170	170
Canada	90	84	83
China	38	40	42
Europe	5,149	4,705	4,172
Japan	167	173	171
Rest of World	1,361	1,449	1,616
UK	427	177	179
USA	881	827	822
Grand Total	8,286	7,625	7,255

This shows the number of institutions, by region, with access to the latest content in A/JB via either a Wiley License or a traditional (title-by-title) subscription.

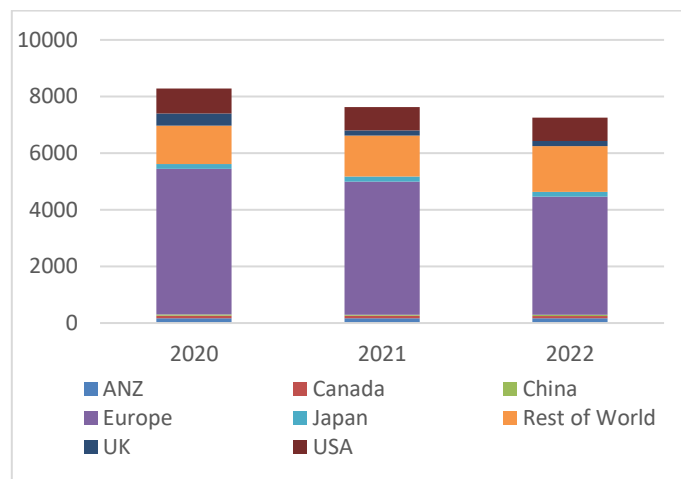
3. Institutional Reach by Type of Access – A/JB

Sales Model	2020	2021	2022
Institutions with access via the Wiley License	8,158	7,525	7,178
Existing License	2,953	3,779	5,603*
Transitional Licenses	1,494	1,399	-
'All Journals' License	3,711	2,347	1,575
Institutions with access via Traditional Subscriptions	128	100	77
Online	128	100	77
Grand Total	8,186	7,625	7,255

In 2022, 7,255 institutions offered access to your journal via a Wiley License, often through a consortium. Of these 1,575 had access via the New 'All Journals' License model offered since 2017 to mature library customers in established markets. In addition, 77 individual institutions offered access via traditional (Online) subscriptions.

*This figure includes transitional licenses.

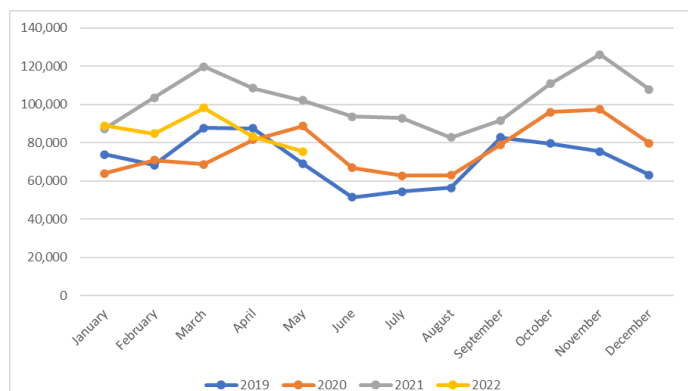
4. Institutional Reach by Region 2020-2022 – A/JB



Here we show the origin of traffic to your journal on Wiley Online Library.

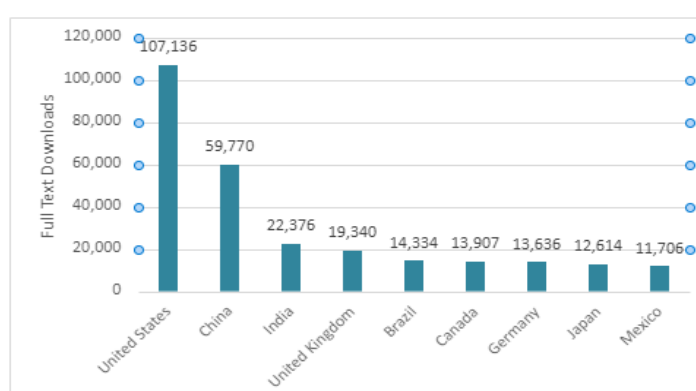
Sales, Circulation & Readership

5. Article Downloads: Monthly Trends Over Time – *AJB*



This chart shows the trends in the number of downloads to your journal in the period 2022 compared to 2021, 2020, and 2019. The total includes usage on Wiley Online Library.

6. Global Readership: Article Downloads by Country – *AJB*



This chart shows the origin of full text downloads of your journal on Wiley Online Library January - May 2022.

7. Most Downloaded Articles on Wiley Online Library, January - May 2022 – *AJB*

Rank	Author(s)	Article Title	Volume	Issue	No. of Downloads
1	Meredith Blackwell	The Fungi: 1, 2, 3 ... 5.1 million species?	98	3	3,661
2	Louise A. Lewis, Richard M. McCourt	Green algae and the origin of land plants	91	10	2,649
3	Matthew C. Nisbet, Dietram A. Scheufele	What's next for science communication? Promising directions and lingering distractions	96	10	2,197
4	SMITH, S	Constructing a broadly inclusive seed plant phylogeny	105	3	2,145
5	A. Jonathan Shaw, Péter Szövényi, Blanka Shaw	Bryophyte diversity and evolution: Windows into the early evolution of land plants	98	3	1,886
6	Donald R. Kaplan	The science of plant morphology: definition, history, and role in modern biology	88	10	1,873
7	CHIN, A	Shoot dimorphism enables Sequoia sempervirens to separate requirements for foliar water uptake and photosynthesis	109	4	1,627
8	Charles Heimsch, James L. Seago Jr.	Organization of the root apical meristem in angiosperms	95	1	1,469
9	Bradley J. Cardinale, et al	The functional role of producer diversity in ecosystems	98	3	1,469
10	Jonathan Shaw, Karen Renzaglia	Phylogeny and diversification of bryophytes	91	10	1,420

8. Altmetric Impact – *AJB*, 2015-2022 January - May 2022

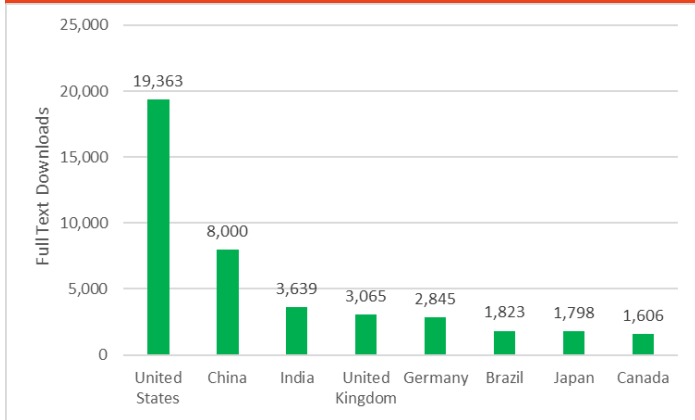
Rank	Article Title	All-Time Score
1	American Journal of Botany	297
2	Shoot dimorphism enables Sequoia sempervirens to separate requirements for foliar water uptake and photosynthesis	296
3	The Fungi: 1, 2, 3 ... 5.1 million species?	266
4	The origin of Darwin's "abominable mystery"	222
5	Limits and constraints to crop domestication	183

Altmetric scores for each article show the quantity and quality of the attention it receives via social media, blog posts, newspapers and magazines.



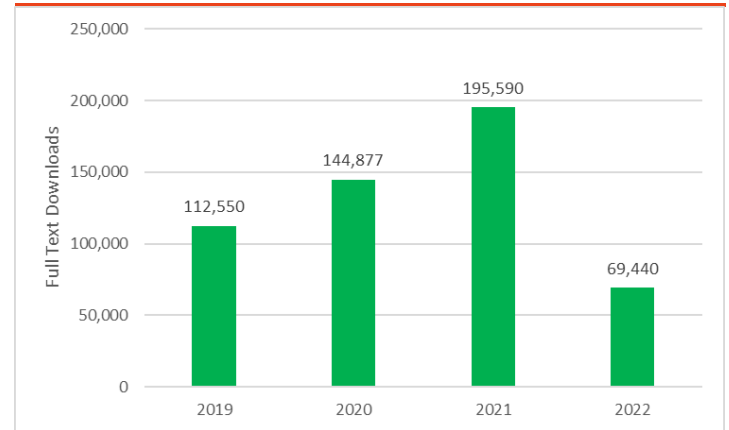
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1. Article Downloads by Country – APPS



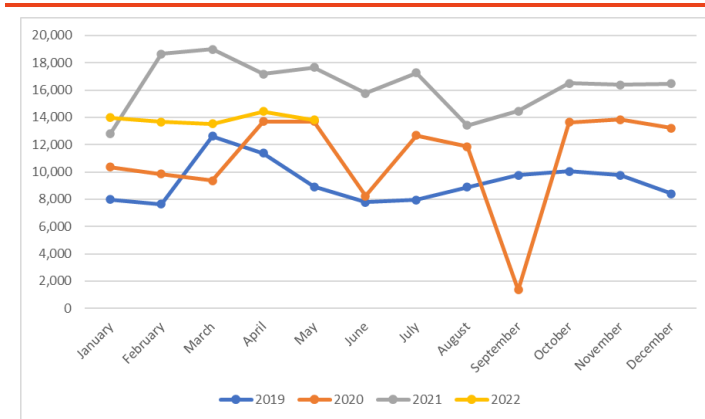
The global reach of your journal is reflected in its readership, as displayed by this chart showing the origin of full text downloads of your journal on Wiley Online Library.

2. Article Downloads: Trends Over Time – APPS



This chart shows the trends in the number of downloads to your journal in the period 2019-2022 (January through May). The total includes usage on Wiley Online Library.

3. Article Downloads: Monthly Trends Over Time – APPS



This chart shows a monthly breakdown of full text downloads of your journal on Wiley Online Library.

4. Altmetric Impact – APPS, 2015-May 2022

Rank	Article Title	All-Time Score
1	Comparing RNA-Seq and microarray gene expression data in two zones of the Arabidopsis root apex relevant to spaceflight	152
2	Using clear plastic CD cases as low-cost-mini-rhizotrons to phenotype root traits	125
3	High-throughput methods for efficiently building massive phylogenies from natural history collections	117
4	The Use of Laser Light to Enhance the Uptake of Foliar-Applied Substances into Citrus (Citrus sinensis) Leaves	112
5	A target enrichment probe set for resolving the flagellate land plant tree of life	105

Altmetric scores for each article show the quantity and quality of the attention it receives via social media, blog posts, newspapers and magazines.



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5. Most Downloaded Articles on Wiley Online Library – APPS

Rank	Author(s)	Article Title	Volume	Issue	No. of Downloads
1	GEHAN, M	Raspberry Pi-powered imaging for plant phenotyping	6	3	3,612
2	CASSIDY, S	Using clear plastic CD cases as low-cost mini-rhizotrons to phenotype root traits	8	4	2,845
3	SHAN, S	Considerations in adapting CRISPR/Cas9 in nongenetic model plant systems	8	1	2,773
4	JAMES, S	Herbarium Data: Global biodiversity and societal botanical needs for novel research	6	2	2,349
5	Kevin Weitemier, Shannon C.K. Straub, Richard C.	Hyb-Seq: Combining Target Enrichment and genome skimming for plant phylogenomics	2	9	2,235
6	DEAN, G	Conducting botanical research with limited resources: Low-cost methods in the plant sciences	8	4	2,164
7	POKORNY, L	Strategies for reducing per-sample costs in target capture sequencing for phylogenomics and population genomics in plants	8	4	2,146
8	Kevin Weitemier, Shannon C. K. Straub, Richard C. Cronn, Mark Fishbein, Roswitha Schmickl, Angela McDonnell, Aaron Liston	Affordable remote monitoring of plant growth in facilities using Raspberry Pi computers	7	8	2,141
9	WEAVER, W	LeafMachine: Using machine learning to automate leaf trait extraction from digitized herbarium specimens	8	6	919
10	BETT, K	Capturing variation in Lens (Fabaceae): Development and utility of an exome capture array for lentil	6	7	910

This table includes details of the top ten most downloaded articles during January - May 2022.

Sales, Circulation & Readership

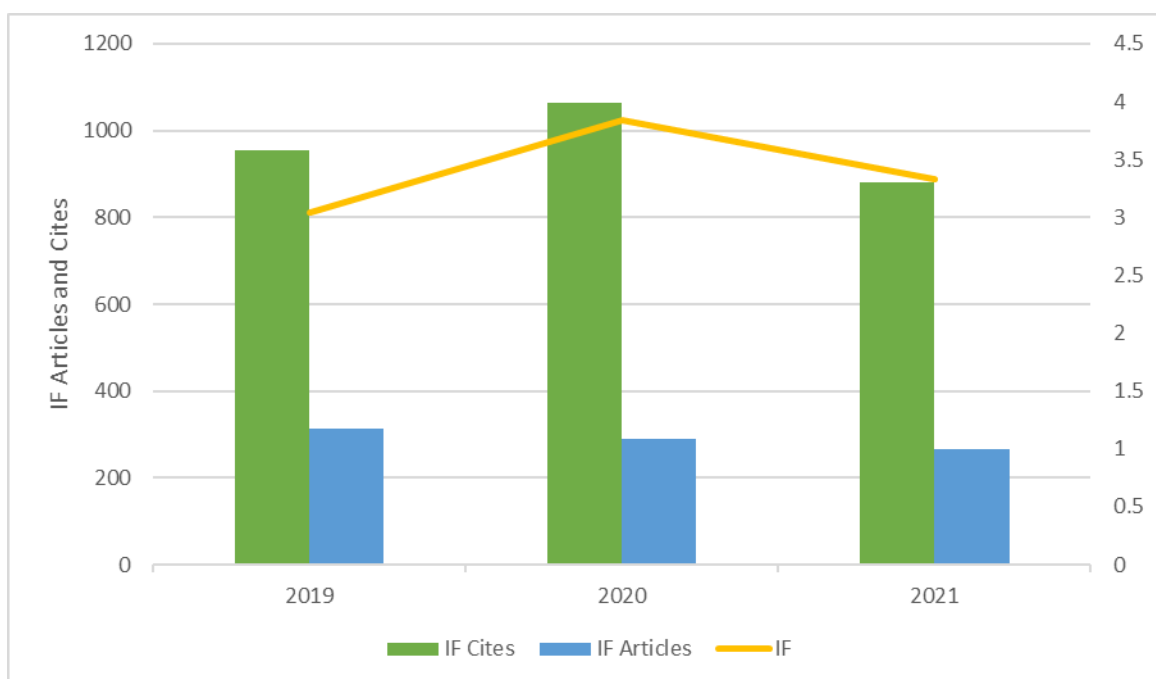
Impact Factor Metrics and Calculations, AMERICAN JOURNAL OF BOTANY

Metric Source	Metric	2021 Values	2020 Values	2019 Values	Change
JCR	%Self-Citation	8.9%	8.8%	8.9%	-1%
JCR	Article Influence	1.156	1.131	1.127	1%
JCR	Cited Half-Life	15.7	15.2	14.9	1%
JCR	Eigenfactor	0.00834	0.00922	0.01215	-11%
JCR	Five-Year IF	4.014	3.657	3.245	-10%
JCR	Immediacy Index	1.195	0.872	0.476	28%
JCR	Impact Factor	3.325	3.844	3.038	-16%
JCR	Total Articles	166	146	126	13%
JCR	Total Cites	20,316	19,318	17,165	5%

In 2021, your 2-year Impact Factor decreased compared to 2020 and now stands at 3.325.

The Impact Factor is defined as the ratio of citations received in the JCR year (in this case, 2021) to “citable items” published in the preceding 2 years (in this case, 2020 and 2019).

Metric	2019	2020	2021
Impact Factor	3.038	3.844	3.325
IF Citations	954	1,065	881
IF Citable Items	314	289	265



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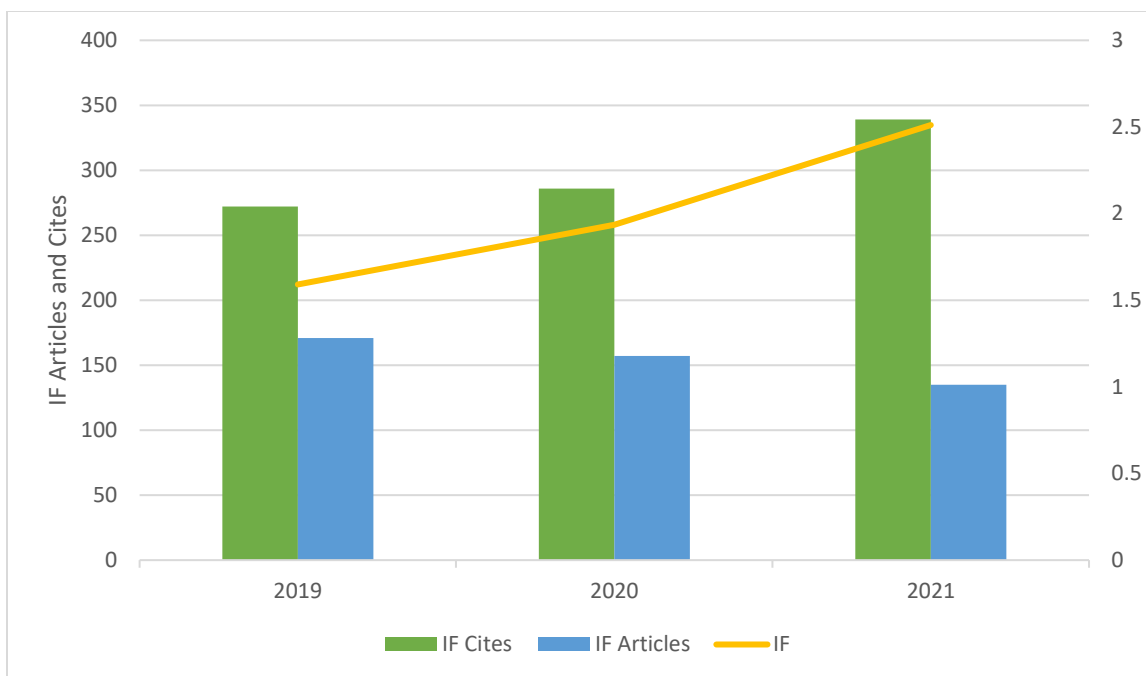
Impact Factor Metrics and Calculations, APPLICATIONS IN PLANT SCIENCES

Metric Source	Metric	2021 Values	2020 Values	2019 Values	Change
JCR	%Self-Citation	8.9%	9.5%	9.56%	1%
JCR	Article Influence	0.548	0.499	0.533	1%
JCR	Cited Half-Life	4.9	4.6	4.2	1%
JCR	Eigenfactor	0.00207	0.00217	0.00296	-5%
JCR	Five-Year IF	2.353	1.929	1.914	1%
JCR	Immediacy Index	2.063	1.338	0.969	36%
JCR	Impact Factor	2.511	1.936	1.591	23%
JCR	Total Articles	30	68	65	-52%
JCR	Total Cites	1,562	1,292	1,048	18%

In 2021, your 2-year Impact Factor increased compared to 2020 and now stands at 2.511. The Impact Factor is defined as the ratio of citations received in the JCR year (in this case, 2021) to “citable items” published in the preceding 2 years (in this case, 2020 and 2019).

Metric	2019	2020	2021
Impact Factor	1.591	1.936	2.511
IF Citations	272	286	339
IF Citable Items	171	157	135

Sales, Circulation & Readership



Glossary

For the purposes of the glossary definitions relate to the 2021 JCR.

5-Year Impact Factor – Citations in the census period (2021) to papers published in the target period (2017-2021), divided by the number of citable items published during the target period (2017-2021).

Article Influence – The average influence of a journal's articles over the first five years after publication. It is calculated by dividing a journal's Eigenfactor Score by the number of articles in the journal, normalized as a fraction of all articles in all publications. This measure is roughly analogous to the 5-Year Journal Impact Factor in that it is a ratio of a journal's citation influence to the size of the journal's article contribution over a period of five years.

Cited half-life – The median age of papers in the target period (All years) cited from the census period (2021).

Eigenfactor – The number of weighted citations in the census period (2021), excluding journal self-citations, to papers published within the target period (2017-2021). Citations are weighted according to the 'quality' of the citing journal, citations from higher quality journals are weighted more than citations from lesser journals. The Eigenfactor is most closely related to the Total Citations metric. The mathematics of the calculation are akin to the PageRank calculations that Google uses in its ranking algorithms.

Immediacy index – Citations in the census period (2021) to papers published in the target period (2020), divided by the number of substantive papers published during the target period (2021).

Impact Factor – Citations in the census period (2021) to papers published in the target period (2020-2021), divided by the number of citable items published during the target period (2020-2021).

Impact Factor Citations – Citation counts in Web of Science data only include instances where it has been possible to match the citation to the cited article. In addition, since October 2012 the Web of Science citation counts have included book citations from the new Book Citation Index. As the Impact Factor includes all citations (including unlinked citations) but does not include book citations, Web of Science data can be used to analyze market share – but is only an indicator for actual Impact Factor deconstruction.

Our Marketing Approach

Making the most of your journals is a joint effort between the Botanical Society of America, the journal editors and editorial board, and the Wiley Editorial and Marketing teams.

Our 2022 objectives

Together we strive towards:

- Growing readership for your journals
- Ensuring the right authors submit papers
- Enhancing your society and journals' reputation

Innovative Marketing Strategy

Researchers want to easily find the right research to inform their work and the right journals to publish in. To help them in the most effective, the Marketing team takes on a holistic approach to support researchers and help the Botanical Society of America reach its goals. Our marketing approach is:

- Always evolving. We experiment, try different approaches, learn from what works, and stop what doesn't
- Collaborative. We have teams of experts in areas such as social media, search engine optimization, content marketing, campaigns, and across particular geographies
- About quality: targeting the right people, at the right time, with the right content
- Committed to deepening knowledge about the target audience. Where can they be found?
- Most effective when positioning, voice of the customer and market research are prioritized
- An involved process that starts with an understanding of market needs

Author Engagement Initiatives

We will ensure the right authors submit to your journals, nurture existing authors, attract new ones and provide resources to support them throughout their journey.

Nurture existing authors

- Congratulate your authors when the Impact Factor for your journals increases
- Retain your authors by celebrating their achievement/thanking them for top contributions to your journal
- Feature your journals in the 'Publish With Us Again' program – bringing authors back to publish again through follow-up communication after article publication, asking about their experience and encouraging future submissions
- Provide a better author experience through improved, real-time, one-to-one author communication experience; more developments on this project coming in 2022

Attract potential authors

- Ensure your journals' unique selling points are updated for author outreach
- Contact researchers eligible for open access fee support from their institution or funder to increase open access publication in your journal. There are [1,600+ global institutional and funder Wiley OA accounts](#)
- Engage with potential authors at events (virtual or in person) as appropriate
- Feature your journals in the 'Home for your Next Paper' program – reaching potential authors, with customized communications tailored to their preferences

Provide resources to help meet authors' needs

- Provide training for researchers at institutions on how to publish and promote their work
- Offer resources to early career researchers on how to get published
- Share new insights, tips and perspectives on research and publishing via [The Wiley Network](#)

Readership Initiatives

We will ensure your journals are easily accessible by a wide range of readers

- Share your journal's top cited and top downloaded content
- Collaboratively amplify identified articles, calls for papers, special issues
- Drive sign-ups to etoc (Table of Contents) email alerts for your journals

Marketing

- Encourage researchers and institutes in under-represented regions who do not have access to Wiley Online Library to access free and open access content
- Review journal homepages to ensure optimization for Search Engine Optimization (SEO) and discoverability
- Promote journal content via the Researcher App, a digital channel engaging directly with researchers interested in your journal content
- Our team supports librarians with material to help them in enabling library users' access to the resources available

Brand Reputation Initiatives

We will ensure ongoing marketing discussion and coordination to best help amplify your society's activity.

Social media recommendations

- Collaborate through social media where applicable to maximise article reach and increase journal visibility
- Capitalise of trending topics and international days to promote journal content and increase awareness of the Botanical Society of America
- Participate in Chinese social media communication channel platforms, such as WeChat and Weibo, which are proving effective for raising brand awareness, engaging with local authors and researchers, and customer profiling

Publicity for increased visibility and impact

- Promote articles with global appeal to a lay audience, research from top research experts/institutions to enhance the society's reputation and support awareness days

Open Access Initiative

Wiley Open Access Accounts (WOAA) Program

This program helps your authors understand what open access funding is available to them when they are submitting a paper to your journal. A multichannel email, web, and social media program which targets researchers eligible for support with open access fees from their institution or funder with Wiley accounts. To date, more than 10,000 authors have engaged with the Wiley Open Access Accounts (WOAA) program to assess their funding eligibility. Authors are directed to a web page where they can search for their institution and find out if it is included in one of our transitional agreements.

Projekt DEAL Author Outreach

A journal-branded email to past authors in Germany, informing them about the ease and benefits to publishing open access in your journal.

New Open Access Agreements

More authors for your journal are now covered with our new Open Access agreements.

Wiley has announced a new four-year open access agreement with **the Conference of Italian University Rectors (CRUI)** to accelerate open access publishing among a growing list of more than 65 universities across Italy.

We have also recently welcomed **Iowa State University, IReL (Ireland), Conference of Rectors of Universities (CRUE) and the Higher Council for Scientific Research (CSIC) (Spain)** to our Transitional Agreements.

Production

American Journal of Botany

Publication Schedule (Calendar Days) 2022

Vol: Issue	Cover month	Online pub date	Number of pages	Average days from receipt at Wiley to EarlyView pub
109:1	January	28 Jan 2022	186	61
109:2	February	28 Feb 2022	174	70
109:3	March	29 Mar 2022	134	38
109:4	April	21 Apr 2022	170	42
109:5	May	15 May 2022	188	31

Applications in Plant Sciences

Publication Schedule (Calendar Days) 2022

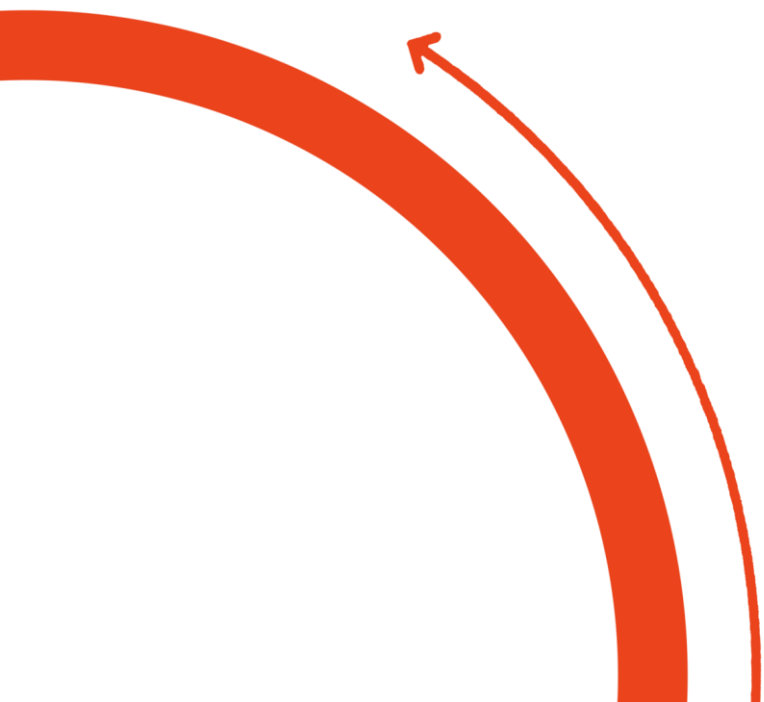
Vol: Issue	Cover month	Online pub date	Number of pages	Average days from receipt at Wiley to EarlyView pub
10:1	January/February	22 Feb 2022	26	24
10:2	March/April	26 Apr 2022	178	32
10:3	May/June	22 June 2022	48	-



BSA Accrued Revenue through May 30, 2022

	<i>AJB</i>	<i>APPS</i>	TOTAL
Title by Title subscription income	75,076		75,076
Online Licensed income	549,880		549,880
Total subscription income	624,956		624,956
Rights	18,608	1,344	19,952
Backfiles	27,712		27,712
Pay per View	1,195		1,195
Online Open	26,918	9,485	36,403
Other			
Total non-subscription income	74,433	10,829	84,262
TOTAL	699,389	10,829	710,218

This chart represents accrued revenue as opposed to earned revenue. Subscription income is collected up front, in total, however, it is only *earned* when an issue publishes. APC income for OA titles is earned when an article is published on EarlyView. Most other revenue streams are earned as they are billed or cash received, whichever is earlier.



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