

2023 AJB Associate Editors Meeting

1. Introductions and welcome new AEs
2. Farewell to retiring AEs
3. BSA/AJB and the transition to open access
4. Open call for editors
5. Brief update on *AJB* Reviews (Kasey Barton)
6. New synthesis section—Year 1 and going forward (Sean Graham)
7. Brief overview of ECAB and other comments from the Director-at-Large for Publications (Emily Sessa)
8. Highlights, OTNOTs, Reviews, Special Collections
9. Discussion of IF - what is being cited?
10. Special Issues in the works
11. Data availability (for phylogenetics, need to include alignments)
12. New areas of exciting research to cover in the journal - we need your help!!!



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Sunday, before the plenary lecture,
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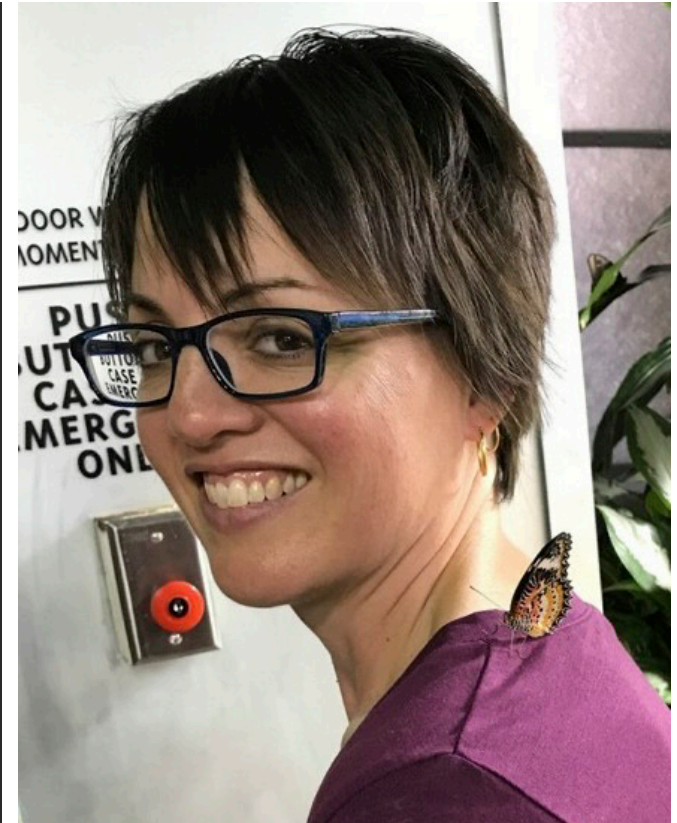
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Understanding the drivers of intraspecific demographic variation: Needs and opportunities

Samantha J. Worthy, Jennifer R. Gremer

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Green land: Multiple perspectives on green algal evolution and the earliest land plants

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Rethinking convergence in plant parasitism through the lens of molecular and population genetic processes

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Sexual dimorphism in a dioecious species with complex, specialist-pollinated flowers

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Kasey Barton
Reviews Editor
University of Hawai'i at
Mānoa
USA
reviews@botany.org

Review Articles in AJB

What we're looking for:

- Synthetic reviews that move beyond summaries or updates of the literature
- Cross-disciplinary, synthesizing across approaches, biomes, taxa, etc.
- Robust approaches, including reports of synthesis methods used (e.g. clearly stating focus or question, reporting methods used to identify relevant literature to avoid bias, etc.)
- Clear and interesting to broad audience
- Quantitative (meta-analysis) or narrative (integrative)
- Instructions and published commentary by Emma Sayer on AJB website - Author Guidelines
- Questions: Kasey Barton (kbarton@hawaii.edu)

Spreading the word:

- Unsolicited submissions are welcome – spread the word in your communities
- By invitation – nominate topics or people by emailing: reviews@botany.org

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Environmental DNA as an emerging tool in botanical research

Mark D. Johnson, Joanna R. Freeland, Laura Parducci, Darren M. Evans, Rachel S. Meyer, Brenda

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Sean Graham

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“Exploring Angiosperms353” Collection

First published: 28 April 2022 | Last updated: 29 April 2022

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The “On the Nature of Things” Essays: New Ideas and Directions in Botany

First published: 26 February 2022 | Last updated: 20 March 2023

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The new *AJB* Synthesis section features invited contributions by early-career scientists that concisely summarize and synthesize a focal research area or question. These articles summarize recent research and provide new insights that advance the field. Contributions focus on newly emerging areas or provide new perspectives on established areas.

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Polyploidization: Consequences of genome doubling on the evolutionary potential of populations

Josselin Clo

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Emily Sessa

BSA Director at Large for
Publications
New York Botanical Garden,
USA

esessa@nybg.org

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AJITH ASHOKAN

is a Research Fellow at the Indian Institute of Science Education and Research Bhopal, working on the evolution of ginger lilies, and is a tropical botanist fascinated by the diversity of woody climbers.



JORGE FLORES

is a Postdoc at the Finnish Museum of Natural History (Luomus) interested in both theoretical and empirical aspects of the phylogenetic inference and whose research is mainly focused on bryophyte phylogenetics, systematics and macroevolution.



LIMING CAI

is a postdoc at the University of Texas at Austin who focuses on the phylogenomics and evolutionary genomics in flowering plants, especially parasitic plants.



CATALINA FLORES-GALVÁN

is a PhD student at the Instituto de Ecología, A. C (Mexico) studying plant ecology and ecophysiology focused on fern spore germination, gametophyte in situ establishment and its relations with biotic and abiotic factors.



MARIO BLANCO-SÁNCHEZ

is a PhD student at Universidad Rey Juan Carlos (Spain). He is an evolutionary ecologist interested in natural selection, quantitative genetics, phenotypic plasticity, and phylogeography of edaphic endemic plants from the Mediterranean region.



SHELLY GAYNOR

is a PhD candidate at the University of Florida studying whole genome duplication (or polyploidy) evolution and population genetics.



UROOJ FATIMA

is a postdoc at KAUST (KSA) whose research focuses on plant-pathogen interactions and studies the molecular basis of stress perception, signaling and adaptation in cereal crops in response to fungal pathogens.



HUASHENG HUANG

is a postdoc at the University of Florence working on the reconstruction of vegetation, climate and environment in the late Neogene and Quaternary Mediterranean.



ANA FLORES

is a Botany PhD student at the University of Hawai'i at Mānoa using a model system to study ontogenetic trajectories of plant functional traits and their potential for evolution by testing their plasticity and differential fitness consequences.



LUIZ REZENDE

is a PhD student at the Ecological interactions and agroecosystems lab in the Universidade Estadual de Campinas (Brazil) researching pollination ecology in diversified interaction systems.

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Highlights

short summaries of a few articles from each issue



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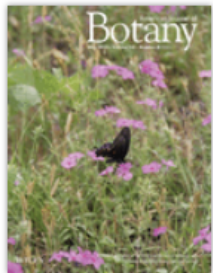
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Fire may improve pollination outcomes in species with fire-stimulated flowering



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Fires induce flowering in many plant species worldwide. More resources are available right after a fire, so more plants flower. However, it is unclear if this increase in flowering actually leads to more seeds. It could be that post-fire increases in resources lead to more flowers and seeds at the end of the season. Alternatively, if fire synchronizes flowering such that plants have more mating opportunities, increased seed production may result from improved pollination. Richardson et al. investigated this multi-component question in three tallgrass prairie perennials. Their results confirm that post-fire resources promoted flowering in two of the three species and, surprisingly, that pollination substantially improved seed yield above and beyond the resource effect. The findings suggest that both fire and flowering time play important roles in pollination. The study also highlights the different responses to fires among species, which could impact the broader plant community.



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Conservation of floral morphology during the rapid diversification of the genus

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"On the Nature of Things" (OTNOT) Essays

Authors	Title	Year	Total Cites	2022 Cites
Gramma V.; Kontbay K.	Crops for the future: on the way to reduce nitrogen pollution	2020	8	7
Ashman T.-L.; Arceo-García A.	Is heterospecific pollen receipt the missing link in understanding pollen limitation of	2020	13	5
Carretero-Paulet L.; Valiente-Banuet A.	The evolutionary conundrum of whole-genome duplication	2020	13	5
Behm J.E.	Is biodiversity needed for sustainability? A spotlight on urban landscapes	2020	5	4
Doyle J.J.; Coate J.E.	Autopolyploidy: an epigenetic macromutation	2020	10	4
Stritt C.; Thieme M.; Roßbach S.	Rare transposable elements challenge the prevailing view of transposition dynamics in	2021	4	3
Stetter M.G.	Limits and constraints to crop domestication	2020	4	2
Lafon Placette C.	Endosperm genome dosage, hybrid seed failure, and parental imprinting: sexual selection as	2020	5	2
Lauri P.-É.	Tree architecture and functioning facing multispecies environments: We have gone o	2021	3	1
Sutherland B.L.; Barrett S.C.H.	Botany is the root and the future of invasion biology	2021	1	1
Baker R.L.; Wang D.R.	Working with longitudinal data: quantifying developmental processes using function	2021	1	1
Jung J.H.; Reis F.; Richerson P.J.	Understanding plant microbiomes requires a genotype × environment framework	2021	2	1
Klimešová J.; Martínková M.	Half of the (big) picture is missing!	2020	3	1
Huang Q.; Wang W.; Barbra J.	Plasticity in selective embryo abortion may limit the mating costs of geitonogamy in s	2020	4	1
Dunning L.T.; Christin P.	Reticulate evolution, lateral gene transfer, and innovation in plants	2020	7	1
Volf M.; Wirth C.; van Dorp D.	Localized defense induction in trees: a mosaic of leaf traits promoting variation in pla	2020	6	1
Savage J.A.	It's all about timing—or is it? Exploring the potential connection between phloem ph	2020	7	1
Scherson R.A.; Luebert M.	Flora of the hot deserts: emerging patterns from phylogeny-based diversity studies	2020	3	1
Howard C.C.; Tribble C.	1, 2, 3, GO! Venture beyond gene ontologies in plant evolutionary research	2021	2	0
Byers K.J.R.P.	"As if they discovered it by the scent": improving our understanding of the chemical e	2021	1	0
Sankoh A.F.; Burch-Smith M.	Plasmodesmata and hormones: pathways for plant development	2021	0	0
Schielzeth H.; Wolf J.B.	Community genomics: a community-wide perspective on within-species genetic dive	2021	1	0
Liao I.T.; Hileman L.C.; Farnsworth E.	On the horizon for nectar-related research	2021	4	0
Cross R.L.; Eckert C.G.	Integrated empirical approaches to better understand species' range limits	2020	3	0
Anderson B.; Minnaar C.	Illuminating the incredible journey of pollen	2020	4	0
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			4.56	1.68



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Olson, Mark E.	From Carlquist's ecological wood anatomy to Carlquist's Law: why comparative anatomy is crucial for functional xylem biology	2020	11
Krasylenko, Yuliya et al.	Parasites on parasites: hyper-, epi-, and autoparasitism among flowering plants	2021	11
Gallinat, Amanda S. et al.	Macrophenology: insights into the broad-scale patterns, drivers, and consequences of phenology	2021	7
O'Brien, Anna M. et al.	Microbial effects on plant phenology and fitness	2021	6
Onyenedum, Joyce G.; Pace, Marcelo R.	The role of ontogeny in wood diversity and evolution	2021	4
Folk, Ryan A.; Siniscalchi, Carolina M.	Biodiversity at the global scale: the synthesis continues	2021	3
Jacobsen, Anna L.	Diversity in conduit and pit structure among extant gymnosperm taxa	2021	2
Oldfather, et al.	Dispersal evolution in temporally variable environments: implications for plant range dynamics	2021	1
Pratt, R. Brandon	Vegetation-type conversion of evergreen chaparral shrublands to savannahs dominated by exotic annual herbs: causes and consequences for ecosystem function	2021	1

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AJB Reviews

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Special Collections

A Special Collection in Celebration of National Endangered Species Day 2023

First published: 15 May 2023 | Last updated: 15 May 2023

Description ▾

A Collection of AJB Synthesis Articles

First published: 6 March 2023 | Last updated: 8 May 2023

Description ▾

“Exploring Angiosperms353” Collection

First published: 28 April 2022 | Last updated: 29 April 2022

Description ▾

The “On the Nature of Things” Essays: New Ideas and Directions in Botany

First published: 26 February 2022 | Last updated: 20 March 2023

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The *AJB* Editor-in-Chief, Dr.

2023 AJB Associate Editors Meeting

1. Introductions and welcome new AEs
2. Farewell to retiring AEs
3. BSA/AJB and the transition to open access
4. Open call for editors
5. Brief update on *AJB* Reviews (Kasey Barton)
6. New synthesis section—Year 1 and going forward (Sean Graham)
7. Brief overview of ECAB and other comments from the Director-at-Large for Publications (Emily Sessa)
8. Highlights, OTNOTs, Reviews, Special Collections
9. Discussion of IF - what is being cited?
10. Special Issues in the works
11. Data availability (for phylogenetics, need to include alignments)
12. New areas of exciting research to cover in the journal - we need your help!!!

American Journal of Botany (AJB) is an internationally renowned journal publishing innovative, significant research of interest to a wide audience of scientists in all areas of plant biology (including ecology, evolution, physiology, biodiversity, systematics, development, genetics, paleobotany, structure and function), all levels of organization (ecosystem to molecular), and all organisms studied by botanical researchers (including land plants, algae, fungi, lichen, cyanobacteria).

The **2021 IF for *AJB* is 3.0** (down from 3.25 last year)

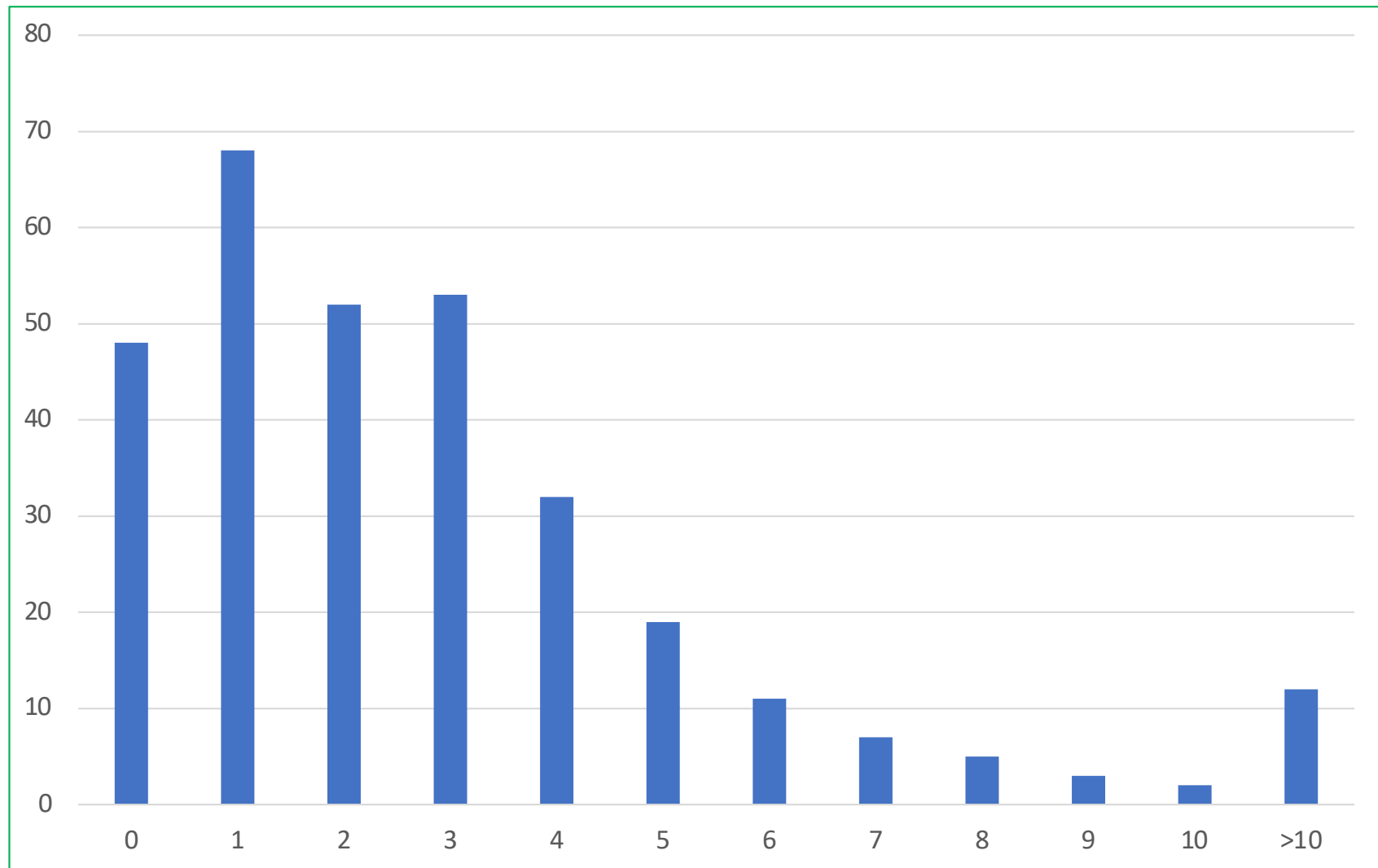
$$\text{IF} = \frac{\text{Citations in 2022 to papers published in 2020 (486) and 2021 (497)}}{\text{Number of citable papers published in 2020 (149) and 2021 (174)}}$$

323 citable items in 2020-2021

4.3% ≥ 10 citations (up from 3%)

52% ≤ 2 citations (down from 56.5%)

14.8% = 0 citations (unchanged from 14.7%)



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Systematics/Phylogenetics

s pollinator visitation
y self-incompatibility

Categories of Papers Submitted

Section/Category	2023	2022	2021	2020	2019	2018
Ecology	52	117	112	124	118	114
Evolution & Phylogeny	28	69	57	73	62	64
Reproductive Biology	22	55	42	37	51	41
Anatomy and Morphology	13	49	33	37	36	43
Ecophysiology	8	24	27	35	37	21
Systematics & Phytogeography	7	20	21	34	18	23
Genetics	4	17	25	36	29	31
Developmental Biology and Developmental Genetics	4	14	6	9	13	13
Paleobotany	9	14	16	28	12	16
Physiology and Biochemistry	11	11	17	19	22	30
Population Biology	14	10	14	13	19	21
Biomechanics	0	6	2	7	1	6
Economic Botany	3	6	8	5	2	4
Cell Biology	0	3	3	4	2	8
Education	0	1	0	0	1	1
	175	416	383	461	423	436
The manuscript number for 2023 is through July 5.						

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Macro evolution / character evolution

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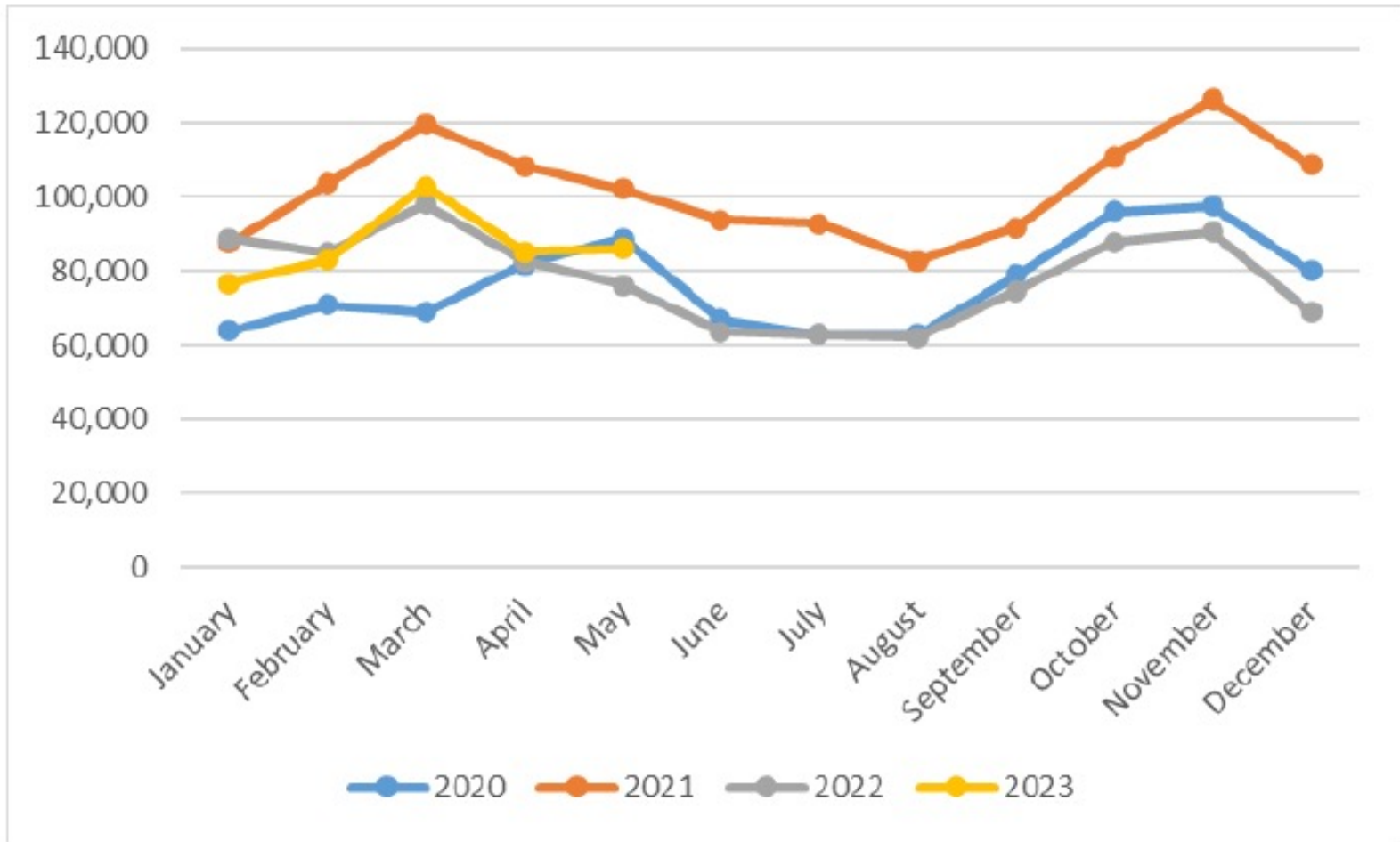
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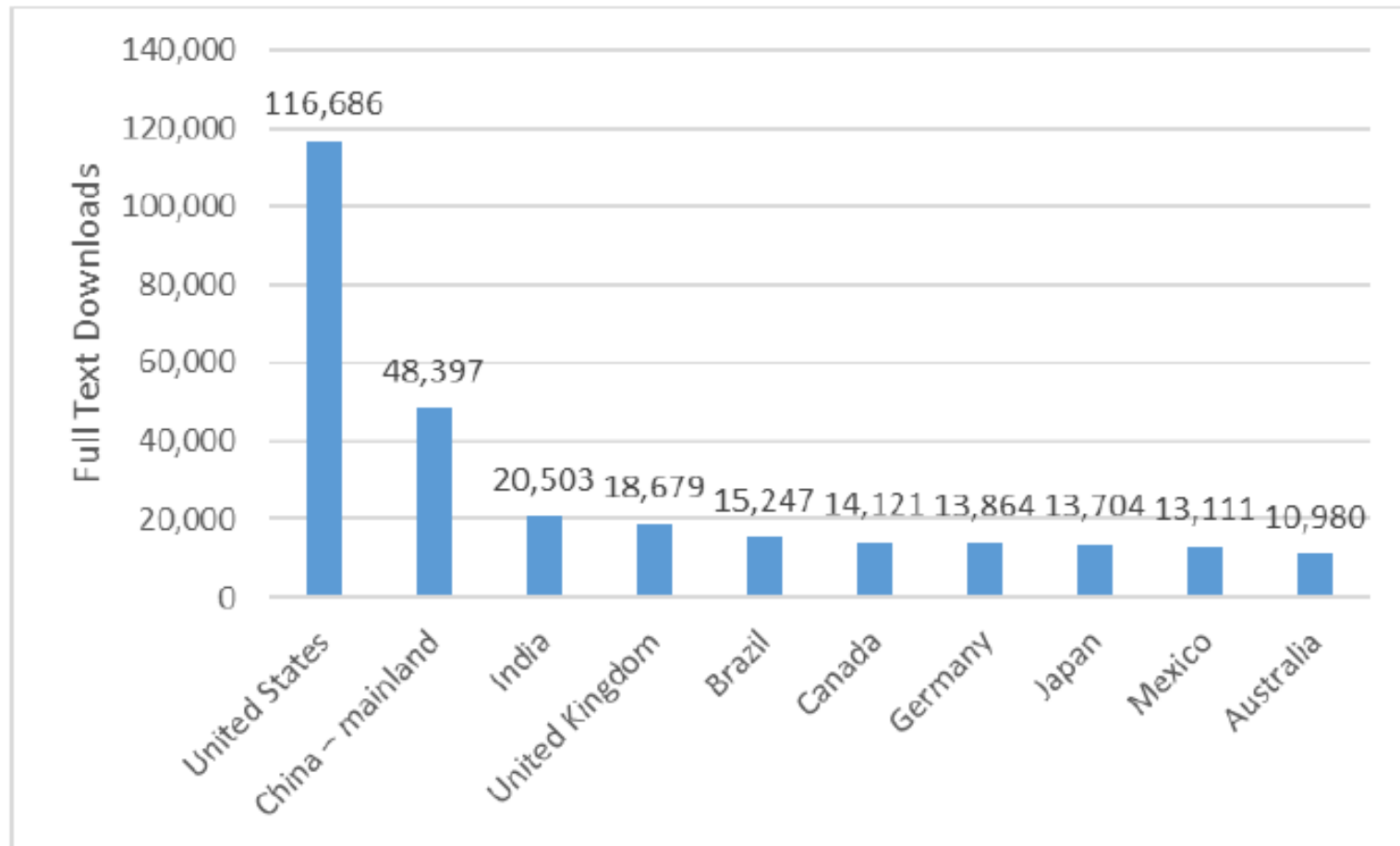
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1	Meredith Blackwell	The Fungi: 1, 2, 3 ... 5.1 million species?	98	3	3,661
2	PEREZ-ESCOBAR, O	Hundreds of nuclear and plastid loci yield novel insights into orchid relationships	108	7	3,376
3	Louise A. Lewis, Richard M. McCourt	Green algae and the origin of land plants	91	10	2,649
4	SMITH, S	Constructing a broadly inclusive seed plant phylogeny	105	3	2,145
5	Matthew C. Nisbet, Dietram A. Scheufele	What's next for science communication? Promising directions and lingering distractions	96	10	2,197
6	SOLTIS, D	Rethinking the Ph.D. dissertation in botany: Widening the circle	110	3	2,160
7	DAVIS, M	Environmental DNA as an emerging tool in botanical research	110	2	1,831
8	Donald R. Kaplan	The science of plant morphology: definition, history, and role in modern biology	88	10	1,873
9	A. Jonathan Shaw, Péter Szövényi, Blanka Shaw	Bryophyte diversity and evolution: Windows into the early evolution of land plants	98	3	1,886
10	Yihai Wang, Kevin M. Folta	Contributions of green light to plant growth and development	100	1	1,482

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Two well-cited papers

Titles and key words

Some (do not) like it hot: shrub growth is hampered by heat and drought at the alpine treeline in recent decades

Study organism is *Rhododendron*

key words: dendrochronology, dendroecology, drought, dwarf shrubs, Ericaceae, heat wave, *Rhododendron ferrugineum*, shrub expansion, standardized precipitation-evaporation index, structural equation model

Variation in the seasonal germination niche across an elevational gradient: the role of germination cueing in current and future climates

Study organism is *Streptanthus tortuosus*

key words: *Arabidopsis*, Brassicaceae, climate change, dormancy, germination temperature, niche construction, phenology, plasticity, stratification, *Streptanthus tortuosus*

Contribution of Reviews to IF

Authors	Item Title	Year	Cites
Olson, Mark E.	From Carlquist's ecological wood anatomy to Carlquist's	2020	11
Krasylenko, Yuliya;Teixeira	Parasites on parasites: hyper-, epi-, and autoparasitism a	2021	11
Gallinat, Amanda S.;Ellwood	Macrophenology: insights into the broad-scale patterns,	2021	7
O'Brien, Anna M.;Ginnard	Microbial effects on plant phenology and fitness	2021	6
Onyenedum, Joyce G.;Parker	The role of ontogeny in wood diversity and evolution	2021	4
Folk, Ryan A.;Siniscalchi, M	Biodiversity at the global scale: the synthesis continues	2021	3
Jacobsen, Anna L.	Diversity in conduit and pit structure among extant gymr	2021	2
Oldfather, Meagan F.;Varley	Dispersal evolution in temporally variable environments:	2021	1
Pratt, R. Brandon	Vegetation-type conversion of evergreen chaparral shrub	2021	1
			46
			5.11

Contribution of Special Issues to IF - 2020

Plant Environment Interactions IF = 3.5		
Authors	Title	Cites
Gremer, Jennifer R.	Variation in the seasonal germination niche across an elevational gradient: the role of germination cueing in current	9
O'Brien, Anna M.; Yu	Resilience to multiple stressors in an aquatic plant and its microbiome	8
Popovic, Damian; Loo	Contrasting environmental factors drive local adaptation at opposite ends of an environmental gradient in the yellow	5
Lynn, Austin; Piotter	Sexual and natural selection on pollen morphology in <i>Taraxacum</i>	5
Batstone, Rebecca	Environmental variation impacts trait expression and selection in the legume-rhizobium symbiosis	4
Wei, Na; Du, Zhaoku	Genome duplication effects on functional traits and fitness are genetic context and species dependent: studies of	4
Christian, Natalie; H	Host affinity of endophytic fungi and the potential for reciprocal interactions involving host secondary chemistry	4
Heath, Katy D.; Podo	Light availability and rhizobium variation interactively mediate the outcomes of legume-rhizobium symbiosis	4
MacTavish, Rachel;	Resource availability alters fitness trade-offs: implications for evolution in stressful environments	4
Forrester, Nicole J.;	Autopolyploidy alters nodule-level interactions in the legume-rhizobium mutualism	3
Murren, Courtney J.	Natural variation on whole-plant form in the wild is influenced by multivariate soil nutrient characteristics: natural	3
Chaney, Lindsay; Ba	The soil microbial community alters patterns of selection on flowering time and fitness-related traits in <i>Ipomoea</i>	3
Nihranz, Chad T.; W	Transgenerational impacts of herbivory and inbreeding on reproductive output in <i>Solanum carolinense</i>	3
Blake-Mahmud, Jen	When the going gets tough, the tough turn female: injury and sex expression in a sex-changing tree	3
Sanderson, Brian J.;	Genetic and physiological mechanisms of freezing tolerance in locally adapted populations of a winter annual	2
Suni, Sevan S.; Ainsw	Local adaptation mediates floral responses to water limitation in an annual wildflower	2
Alameldin, Hussien	Nuclear-encoded sigma factor 6 (SIG6) is involved in the block of greening response in <i>Arabidopsis thaliana</i>	1
Smithers, Brian, V;	Community turnover by composition and climatic affinity across scales in an alpine system	0
Blake-Mahmud, Jen	Death, sex, and sugars: variations in nonstructural carbohydrate concentrations in a sexually plastic tree	0

Contribution of Special Issues to IF - 2021

Life Without Water, IF =3.9		
Authors	Title	Cites
Merklinger, Felix F.;	Quaternary diversification of a columnar cactus in the driest place on earth	9
Eguiarte, Luis E.;Barral	Evolutionary ecology of Agave: distribution patterns, phylogeny, and coevolution (an homage to Howard S. Gentry)	8
Marks, Rose A.;Farr	Unexplored dimensions of variability in vegetative desiccation tolerance	7
Grusz, Amanda L.;W	A drought-driven model for the evolution of obligate apomixis in ferns: evidence from pellaids (Pteridaceae)	6
Majure, Lucas C.;Ba	Pleistocene aridification underlies the evolutionary history of the Caribbean endemic, insular, giant <i>Consolea</i> (<i>Opu</i>	5
Coe, Kirsten K.;Ebra	Strategies of desiccation tolerance vary across life phases in the moss <i>Syntrichia caninervis</i>	5
Kooyers, Nicholas J.	Population responses to a historic drought across the range of the common monkeyflower (<i>Mimulus guttatus</i>)	3
Torres-Garcia, M. T	Squandering water in drylands: the water-use strategy of the phreatophyte <i>Ziziphus lotus</i> in a groundwater-deper	3
Burnette, Timothy E	Evolutionary divergence of potential drought adaptations between two subspecies of an annual plant: Are trait co	2
Avila-Lovera, Eleinis	Phylogenetic signal and climatic niche of stem photosynthesis in the mediterranean and desert regions of Califorr	2
Laport, Robert G.;M	Pollinator assemblage and pollen load differences on sympatric diploid and tetraploid cytotypes of the desert-dom	1
Mocko, Kerri;Jones,	Do seedlings of larger geophytic species outperform smaller ones when challenged by drought?	0
Exploring Angiosperms353, IF = 7.9		
Authors	Title	Cites
Maurin, Olivier;Gall	A nuclear phylogenomic study of the angiosperm order Myrtales, exploring the potential and limitations of the un	20
Perez-Escobar, Osca	Hundreds of nuclear and plastid loci yield novel insights into orchid relationships	13
Antonelli, Alexandre	Settling a family feud: a high-level phylogenomic framework for the Gentianales based on 353 nuclear genes and	12
Thomas, Anne E.;Ige	Using target sequence capture to improve the phylogenetic resolution of a rapid radiation in New Zealand <i>Veronic</i>	12
Baker, William J.;W	Exploring Angiosperms353: an open, community toolkit for collaborative phylogenomic research on flowering plan	11
Clarkson, James J.;M	A higher-level nuclear phylogenomic study of the carrot family (<i>Apiaceae</i>)	8
Buerki, Sven;Baker,	An updated infra-familial classification of Sapindaceae based on targeted enrichment data	6
Thomas, Shawn K.;L	Comprehending Cornales: phylogenetic reconstruction of the order using the Angiosperms353 probe set	5
Ottenlips, Michael,	Resolving species boundaries in a recent radiation with the Angiosperms353 probe set: the <i>Lomatium packardiae</i> ,	5
Zuntini, Alexandre F	A comprehensive phylogenomic study of the monocot order Commelinales, with a new classification of Commelir	4
Shah, Toral;Larridor	Joining forces in Ochnaceae phylogenomics: a tale of two targeted sequencing probe kits	4
Pillon, Yohan;Hopkir	Phylogenomics and biogeography of Cunoniaceae (<i>Oxalidales</i>) with complete generic sampling and taxonomic rea	4
Wenzell, Katherine	Incomplete reproductive isolation and low genetic differentiation despite floral divergence across varying geograp	3
Lee, Aaron K.;Gilma	Reconstructing Dipsacales phylogeny using Angiosperms353: issues and insights	3

Special Issues

2022:

Approaches to the Study of Quantitative Fitness Related Traits

Led by Susan Mazer, Eugenio Larios (former ECAB-er), Ann Sakai, and Stephen Weller

November

2023

Pollen as the Link Between Phenotype and Fitness

Led by Øystein H. Opedal, Rocío Pérez-Barrales, Vinícius L. G. Brito, Nathan Muchhala, and Agnes Dellinger [with Miquel Capó handling a companion paper in *APPS*]

2024

Joint AJB/APPS special issues on *Polyploidy*, titled **Twice as Nice: New Techniques and Discoveries in Polyploid Biology**

Led by Mike Barker, Kelsey Glennon, Yunnian Jiao (*AJB*), and Michael McKain, Ya Yang, and Agnieszka Golicz (*APPS*)

Plant-microbe interactions in tropical and subtropical ecosystems: The role of plant-microbe interactions in plant community dynamics of tropical and subtropical ecosystems

Led by Meghna Krishnadas, Gaurav Kandlikar, and Adriana Corrales

Any ideas for topics?



Botanical Society of America @Botanical_ · Jul 6

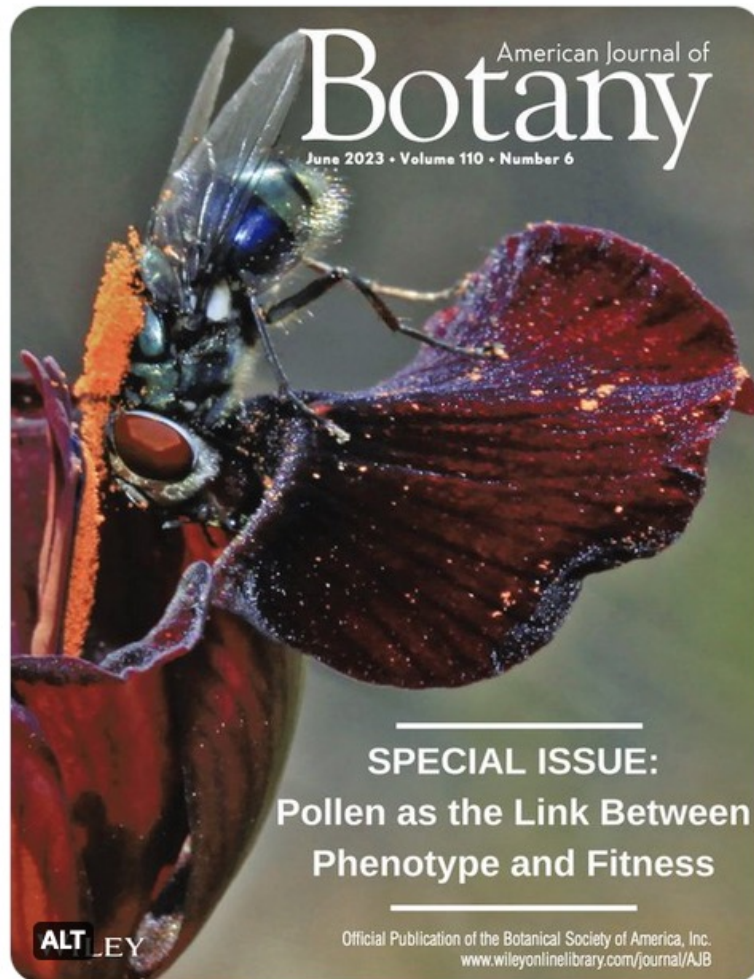


Check out the new #AJB Special Issue!

#Pollen as the Link Between Phenotype & Fitness
bsapubs.onlinelibrary.wiley.com/doi/10.1002/ajb...

We thank the issue editors for their hard work! @oysteinopedal,
@RorroDew, Vinicus Brito, @Muchhala_Lab, @Miq_Capo & @the_kunsze

#botany @wileyplantsci @WileyEcolEvol



↻ 15

♥ 44

📄 3,264



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Keep up the great work!!!

Year	No. of MSS. Submitted.	Avg. time to 1st dec.
2017	520	34.8
2018	478	35.2
2019	451	34.6
2020	491	44.4
2021	407	47.4
2022	451	46.5
2023		34.9

Please be mindful of diversity and inclusion when selecting reviewers (links in AE report)

Diversify EEB <https://diversifyeeb.com/>

Diversify Plant Science <https://docs.google.com/spreadsheets/d/1ygduel8h-BSq1irE-guLD-CbFrSHdykHHXFGt5PiW9Y/edit#gid=1813523959>

Black Botanists <https://blackbotanistsweek.weebly.com/>

Google Scholar links

A Web of Science search in Editorial Manager

Search Type

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Personal Classifications

Suggest Reviewers

Web of Science
Reviewer Locator

Search From

Entire Database ▾

Other ideas????

English Editing

<https://www.writefull.com/>

<https://www.grammarly.com/>

The free version appears to work very well!

Botany360

Botany360 is a series of programming that connects our botanical community during the 360 days outside of Botany Conferences. The Botany360 event calendar is a tool to highlight those events. The goal of this program is to connect the plant science community throughout the year with professional development, discussion sessions, and networking and social opportunities.



The BSA would like to hold a **Botany 360** workshop focused on training reviewers

Workshops are online and last 1-1.5 hours

Volunteers????

Contact Amy McPherson

amcpherson@botany.org

AJB@botany.org