

# Charles C Davis

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124  
papers

7,892  
citations

48  
h-index

87  
g-index

147  
ext. papers

9,685  
ext. citations

6.7  
avg, IF

6.17  
L-index

#	Paper	IF	Citations
124	Widespread homogenization of plant communities in the Anthropocene. <i>Nature Communications</i> , <b>2021</b> , 12, 6983	17.4	2
123	Phenological displacement is uncommon among sympatric angiosperms. <i>New Phytologist</i> , <b>2021</b> , 233, 1466	9.8	0
122	Back to the future: A refined single-user photostation for massively scaling herbarium digitization. <i>Taxon</i> , <b>2021</b> , 70, 635-643	0.8	1
121	Deeply Altered Genome Architecture in the Endoparasitic Flowering Plant <i>Sapria himalayana</i> Griff. (Rafflesiaceae). <i>Current Biology</i> , <b>2021</b> , 31, 1002-1011.e9	6.3	17
120	Phylogenetic Relationships of <i>Tovomita</i> (Clusiaceae): Carpel Number and Geographic Distribution Speak Louder than Venation Pattern. <i>Systematic Botany</i> , <b>2021</b> , 46, 102-108	0.7	1
119	Phenological sensitivity to temperature mediates herbivory. <i>Global Change Biology</i> , <b>2021</b> , 27, 2315-2327.11.4	11.4	8
118	Striking developmental convergence in angiosperm endoparasites. <i>American Journal of Botany</i> , <b>2021</b> , 108, 756-768	2.7	4
117	Life history, diversity, and distribution in parasitic flowering plants. <i>Plant Physiology</i> , <b>2021</b> , 187, 32-51	6.6	6
116	Phytogeographic History of the Tea Family Inferred Through High-Resolution Phylogeny and Fossils. <i>Systematic Biology</i> , <b>2021</b> , 70, 1256-1271	8.4	2
115	Ecophysiological differentiation between life stages in filmy ferns (Hymenophyllaceae). <i>Journal of Plant Research</i> , <b>2021</b> , 134, 971-988	2.6	4
114	Endoparasitic plants and fungi show evolutionary convergence across phylogenetic divisions. <i>New Phytologist</i> , <b>2021</b> , 232, 1159-1167	9.8	2
113	The Perfect Storm: Gene Tree Estimation Error, Incomplete Lineage Sorting, and Ancient Gene Flow Explain the Most Recalcitrant Ancient Angiosperm Clade, Malpighiales. <i>Systematic Biology</i> , <b>2021</b> , 70, 491-507	8.4	9
112	Phylogenomics, divergence time estimation and trait evolution provide a new look into the Gracilariales (Rhodophyta). <i>Molecular Phylogenetics and Evolution</i> , <b>2021</b> , 165, 107294	4.1	4
111	Freezing and water availability structure the evolutionary diversity of trees across the Americas. <i>Science Advances</i> , <b>2020</b> , 6, eaaz5373	14.3	24
110	An invasive species spread by threatened diurnal lemurs impacts rainforest structure in Madagascar. <i>Biological Invasions</i> , <b>2020</b> , 22, 2845-2858	2.7	6
109	Water lily () genome reveals variable genomic signatures of ancient vascular cambium losses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8649-8656	11.5	15
108	Plastome phylogenomics, systematics, and divergence time estimation of the <i>Beilschmiedia</i> group (Lauraceae). <i>Molecular Phylogenetics and Evolution</i> , <b>2020</b> , 151, 106901	4.1	5

107	Prickly waterlily and rigid hornwort genomes shed light on early angiosperm evolution. <i>Nature Plants</i> , <b>2020</b> , 6, 215-222	11.5	40
106	Digitization and the Future of Natural History Collections. <i>BioScience</i> , <b>2020</b> , 70, 243-251	5.7	68
105	Machine learning predicts large scale declines in native plant phylogenetic diversity. <i>New Phytologist</i> , <b>2020</b> , 227, 1544-1556	9.8	9
104	Andersoniodoxa, a replacement name for Andersoniella (Malpighiaceae). <i>Phytotaxa</i> , <b>2020</b> , 470, 121-122	0.7	2
103	Andersoniella: A New Genus of Neotropical Malpighiaceae. <i>Harvard Papers in Botany</i> , <b>2020</b> , 25, 51	0.3	1
102	A New Method for Counting Reproductive Structures in Digitized Herbarium Specimens Using Mask R-CNN. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 1129	6.2	11
101	Machine Learning Using Digitized Herbarium Specimens to Advance Phenological Research. <i>BioScience</i> , <b>2020</b> , 70, 610-620	5.7	28
100	Diverse trajectories of plastome degradation in holoparasitic Cistanche and genomic location of the lost plastid genes. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 877-892	7	6
99	Life in the canopy: community trait assessments reveal substantial functional diversity among fern epiphytes. <i>New Phytologist</i> , <b>2020</b> , 227, 1885-1899	9.8	7
98	Plastomes resolve generic limits within tribe Clusiaceae (Clusiaceae) and reveal the new genus Arawakia. <i>Molecular Phylogenetics and Evolution</i> , <b>2019</b> , 134, 142-151	4.1	8
97	Widespread ancient whole-genome duplications in Malpighiales coincide with Eocene global climatic upheaval. <i>New Phytologist</i> , <b>2019</b> , 221, 565-576	9.8	43
96	Digitization protocol for scoring reproductive phenology from herbarium specimens of seed plants. <i>Applications in Plant Sciences</i> , <b>2018</b> , 6, e1022	2.3	33
95	Reconstructing deep-time palaeoclimate legacies in the clusioid Malpighiales unveils their role in the evolution and extinction of the boreotropical flora. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 616-628	6.1	17
94	The unrealized potential of herbaria for global change biology. <i>Ecological Monographs</i> , <b>2018</b> , 88, 505-525	5	73
93	Mating system does not predict niche breath. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 804-813	6.1	9
92	Widespread sampling biases in herbaria revealed from large-scale digitization. <i>New Phytologist</i> , <b>2018</b> , 217, 939-955	9.8	155
91	Microsorium Tohineaense (Polypodiaceae), a New Hybrid Fern from French Polynesia, with Implications for the Taxonomy of Microsorium. <i>Systematic Botany</i> , <b>2018</b> , 43, 397-413	0.7	4
90	Phylogeny of the Inula group (Asteraceae: Inuleae): Evidence from nuclear and plastid genomes and a recircumscription of Pentanema. <i>Taxon</i> , <b>2018</b> , 67, 165-178	0.8	15

89	Organellar genomics: a useful tool to study evolutionary relationships and molecular evolution in Gracilariaceae (Rhodophyta). <i>Journal of Phycology</i> , <b>2018</b> , 54, 775-787	3	13
88	Biological collections for understanding biodiversity in the Anthropocene. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 374,	5.8	87
87	Herbarium specimens reveal substantial and unexpected variation in phenological sensitivity across the eastern United States. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 374,	5.8	42
86	Large-scale digitization of herbarium specimens: Development and usage of an automated, high-throughput conveyor system. <i>Taxon</i> , <b>2018</b> , 67, 149-164	0.8	23
85	CrowdCurio: an online crowdsourcing platform to facilitate climate change studies using herbarium specimens. <i>New Phytologist</i> , <b>2017</b> , 215, 479-488	9.8	45
84	Old Plants, New Tricks: Phenological Research Using Herbarium Specimens. <i>Trends in Ecology and Evolution</i> , <b>2017</b> , 32, 531-546	10.9	151
83	Implications and alternatives of assigning climate data to geographical centroids. <i>Journal of Biogeography</i> , <b>2017</b> , 44, 2188-2198	4.1	26
82	Life cycle matters: DNA barcoding reveals contrasting community structure between fern sporophytes and gametophytes. <i>Ecological Monographs</i> , <b>2017</b> , 87, 278-296	9	28
81	Reading between the vines: Hosts as islands for extreme holoparasitic plants. <i>American Journal of Botany</i> , <b>2017</b> , 104, 1382-1389	2.7	16
80	The big, the bad, and the beautiful: Biology of the world's largest flowers. <i>Journal of Systematics and Evolution</i> , <b>2017</b> , 55, 516-524	2.9	13
79	A statistical estimator for determining the limits of contemporary and historic phenology. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 1876-1882	12.3	55
78	Repeated evolution of vertebrate pollination syndromes in a recently diverged Andean plant clade. <i>Evolution; International Journal of Organic Evolution</i> , <b>2017</b> , 71, 1970-1985	3.8	36
77	Differential Expression of CYC2 Genes and the Elaboration of Floral Morphologies in <i>Hiptage</i> , an Old World Genus of Malpighiaceae. <i>International Journal of Plant Sciences</i> , <b>2016</b> , 177, 551-558	2.6	16
76	Unraveling the biogeographical history of Chrysobalanaceae from plastid genomes. <i>American Journal of Botany</i> , <b>2016</b> , 103, 1089-102	2.7	16
75	Dispersal largely explains the Gondwanan distribution of the ancient tropical clusioid plant clade. <i>American Journal of Botany</i> , <b>2016</b> , 103, 1117-28	2.7	36
74	The Impact of Missing Data on Species Tree Estimation. <i>Molecular Biology and Evolution</i> , <b>2016</b> , 33, 838-60.3	6.3	82
73	Implementing and testing the multispecies coalescent model: A valuable paradigm for phylogenomics. <i>Molecular Phylogenetics and Evolution</i> , <b>2016</b> , 94, 447-62	4.1	230
72	Phylogeny of Elatinaceae and the Tropical Gondwanan Origin of the Centroplacaceae (Malpighiaceae, Elatinaceae) Clade. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161881	3.7	11

71	The abiotic and biotic drivers of rapid diversification in Andean bellflowers (Campanulaceae). <i>New Phytologist</i> , <b>2016</b> , 210, 1430-42	9.8	194
70	The New England Vascular Plants Project: 295,000 specimens and counting. <i>Rhodora</i> , <b>2016</b> , 118, 324-325.	0.3	6
69	Delimitating cryptic species in the <i>Gracilaria domingensis</i> complex (Gracilariaceae, Rhodophyta) using molecular and morphological data. <i>Journal of Phycology</i> , <b>2016</b> , 52, 997-1017	3	15
68	Genes with minimal phylogenetic information are problematic for coalescent analyses when gene tree estimation is biased. <i>Molecular Phylogenetics and Evolution</i> , <b>2015</b> , 92, 63-71	4.1	69
67	Rethinking migration. <i>Science</i> , <b>2015</b> , 348, 766	33.3	7
66	Herbarium records are reliable sources of phenological change driven by climate and provide novel insights into species' phenological cueing mechanisms. <i>American Journal of Botany</i> , <b>2015</b> , 102, 1599-609	2.7	131
65	Coalescent methods are robust to the simultaneous effects of long branches and incomplete lineage sorting. <i>Molecular Biology and Evolution</i> , <b>2015</b> , 32, 791-805	8.3	57
64	Extended flowering intervals of bamboos evolved by discrete multiplication. <i>Ecology Letters</i> , <b>2015</b> , 18, 653-9	10	27
63	Estimating phylogenetic trees from genome-scale data. <i>Annals of the New York Academy of Sciences</i> , <b>2015</b> , 1360, 36-53	6.5	122
62	Horizontal gene transfer in parasitic plants. <i>Current Opinion in Plant Biology</i> , <b>2015</b> , 26, 14-9	9.9	52
61	Phylogeny of Gracilariaceae (Rhodophyta): evidence from plastid and mitochondrial nucleotide sequences. <i>Journal of Phycology</i> , <b>2015</b> , 51, 356-66	3	34
60	Floral structure and development in Rafflesiaceae with emphasis on their exceptional gynoecea. <i>American Journal of Botany</i> , <b>2014</b> , 101, 225-43	2.7	19
59	Long-term morphological stasis maintained by a plant-pollinator mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 5914-9	11.5	58
58	Streptophyte algae and the origin of land plants revisited using heterogeneous models with three new algal chloroplast genomes. <i>Molecular Biology and Evolution</i> , <b>2014</b> , 31, 177-83	8.3	63
57	Coalescent versus concatenation methods and the placement of Amborella as sister to water lilies. <i>Systematic Biology</i> , <b>2014</b> , 63, 919-32	8.4	132
56	Leaf out times of temperate woody plants are related to phylogeny, deciduousness, growth habit and wood anatomy. <i>New Phytologist</i> , <b>2014</b> , 203, 1208-1219	9.8	84
55	Holoparasitic Rafflesiaceae possess the most reduced endophytes and yet give rise to the world's largest flowers. <i>Annals of Botany</i> , <b>2014</b> , 114, 233-42	4.1	30
54	Evolutionary bursts in Euphorbia (Euphorbiaceae) are linked with photosynthetic pathway. <i>Evolution; International Journal of Organic Evolution</i> , <b>2014</b> , 68, 3485-504	3.8	84

53	The establishment of Central American migratory corridors and the biogeographic origins of seasonally dry tropical forests in Mexico. <i>Frontiers in Genetics</i> , <b>2014</b> , 5, 433	4.5	24
52	Pitcher Plants (Sarracenia) Provide a 21st-Century Perspective on Intraspecific Ranks and Interspecific Hybrids: A Modest Proposal* for Appropriate Recognition and Usage. <i>Systematic Botany</i> , <b>2014</b> , 39, 939-949	0.7	14
51	Phylogeny, classification, and fruit evolution of the species-rich Neotropical bellflowers (Campanulaceae: Lobelioideae). <i>American Journal of Botany</i> , <b>2014</b> , 101, 2097-112	2.7	23
50	Plastid phylogenomics and green plant phylogeny: almost full circle but not quite there. <i>BMC Biology</i> , <b>2014</b> , 12, 11	7.3	38
49	Developmental origins of the world's largest flowers, Rafflesiaceae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18578-83	11.5	23
48	Temperature-dependent shifts in phenology contribute to the success of exotic species with climate change. <i>American Journal of Botany</i> , <b>2013</b> , 100, 1407-21	2.7	104
47	Advances in the floral structural characterization of the major subclades of Malpighiales, one of the largest orders of flowering plants. <i>Annals of Botany</i> , <b>2013</b> , 111, 969-85	4.1	28
46	Evolution: pollen or pollinators— which came first?. <i>Current Biology</i> , <b>2013</b> , 23, R316-8	6.3	7
45	Combined Morphological and Molecular Phylogeny of the Clusioid Clade (Malpighiales) and the Placement of the Ancient Rosid Macrofossil Paleoclusia. <i>International Journal of Plant Sciences</i> , <b>2013</b> , 174, 910-936	2.6	29
44	Divergent genetic mechanisms underlie reversals to radial floral symmetry from diverse zygomorphic flowered ancestors. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 302	6.2	31
43	Massive mitochondrial gene transfer in a parasitic flowering plant clade. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003265	6.5	86
42	Record-breaking early flowering in the eastern United States. <i>PLoS ONE</i> , <b>2013</b> , 8, e53788	3.7	102
41	Deep genetic divergence between disjunct Refugia in the Arctic-Alpine King's Crown, <i>Rhodiola integrifolia</i> (Crassulaceae). <i>PLoS ONE</i> , <b>2013</b> , 8, e79451	3.7	10
40	Phylogenomics and coalescent analyses resolve extant seed plant relationships. <i>PLoS ONE</i> , <b>2013</b> , 8, e80879	3.7	58
39	Horizontal transfer of expressed genes in a parasitic flowering plant. <i>BMC Genomics</i> , <b>2012</b> , 13, 227	4.5	73
38	Phylogenomics and a posteriori data partitioning resolve the Cretaceous angiosperm radiation Malpighiales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 17519-24	11.5	238
37	Phylogeny and biogeography of the carnivorous plant family Sarraceniaceae. <i>PLoS ONE</i> , <b>2012</b> , 7, e39291	3.7	33
36	(2091) Proposal to conserve the name <i>Mascagnia</i> against <i>Triopterys</i> (Malpighiaceae). <i>Taxon</i> , <b>2012</b> , 61, 1124-1125	0.8	1

35	Similar genetic mechanisms underlie the parallel evolution of floral phenotypes. <i>PLoS ONE</i> , <b>2012</b> , 7, e36033	2.7	93
34	Phylogeny of the clusioid clade (Malpighiales): evidence from the plastid and mitochondrial genomes. <i>American Journal of Botany</i> , <b>2011</b> , 98, 306-25	2.7	88
33	Angiosperm phylogeny: 17 genes, 640 taxa. <i>American Journal of Botany</i> , <b>2011</b> , 98, 704-30	2.7	493
32	Plant evolution: pulses of extinction and speciation in gymnosperm diversity. <i>Current Biology</i> , <b>2011</b> , 21, R995-8	6.3	13
31	Phylogenetic Analysis of the Plastid Inverted Repeat for 244 Species: Insights into Deeper-Level Angiosperm Relationships from a Long, Slowly Evolving Sequence Region. <i>International Journal of Plant Sciences</i> , <b>2011</b> , 172, 541-558	2.6	74
30	The importance of phylogeny to the study of phenological response to global climate change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2010</b> , 365, 3201-13	5.8	117
29	Favorable climate change response explains non-native species success in Thoreau's woods. <i>PLoS ONE</i> , <b>2010</b> , 5, e8878	3.7	172
28	Floral symmetry genes and the origin and maintenance of zygomorphy in a plant-pollinator mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6388-93	11.5	91
27	A complete generic phylogeny of Malpighiaceae inferred from nucleotide sequence data and morphology. <i>American Journal of Botany</i> , <b>2010</b> , 97, 2031-48	2.7	111
26	Rosid radiation and the rapid rise of angiosperm-dominated forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3853-8	11.5	347
25	Malpighiales phylogenetics: Gaining ground on one of the most recalcitrant clades in the angiosperm tree of life. <i>American Journal of Botany</i> , <b>2009</b> , 96, 1551-70	2.7	222
24	Floral evolution: dramatic size change was recent and rapid in the world's largest flowers. <i>Current Biology</i> , <b>2008</b> , 18, R1102-4	6.3	9
23	The evolution of floral gigantism. <i>Current Opinion in Plant Biology</i> , <b>2008</b> , 11, 49-57	9.9	52
22	Phylogenetic patterns of species loss in Thoreau's woods are driven by climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 17029-33	11.5	424
21	Phylogenetic Placement of Rheopteris and the Polyphyly of Monogramma (Pteridaceae s.l.): Evidence from rbcL Sequence Data. <i>Systematic Botany</i> , <b>2008</b> , 33, 37-43	0.7	11
20	Floral gigantism in Rafflesiaceae. <i>Science</i> , <b>2007</b> , 315, 1812	33.3	97
19	The deepest divergences in land plants inferred from phylogenomic evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 15511-6	11.5	500
18	EXPANSION OF DIPLOPTERYYS AT THE EXPENSE OF BANISTERIOPSIS (MALPIGHIAEAE). <i>Harvard Papers in Botany</i> , <b>2006</b> , 11, 1-16	0.3	14

17	Explosive radiation of Malpighiales supports a mid-cretaceous origin of modern tropical rain forests. <i>American Naturalist</i> , <b>2005</b> , 165, E36-65	3.7	251
16	Gene transfer from a parasitic flowering plant to a fern. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 272, 2237-42	4.4	75
15	Molecular phylogenetics of Phyllanthaceae: evidence from plastid MATK and nuclear PHYC sequences. <i>American Journal of Botany</i> , <b>2005</b> , 92, 132-41	2.7	75
14	Phylogenetic Analyses of Basal Angiosperms Based on Nine Plastid, Mitochondrial, and Nuclear Genes. <i>International Journal of Plant Sciences</i> , <b>2005</b> , 166, 815-842	2.6	150
13	High-Latitude Tertiary Migrations of an Exclusively Tropical Clade: Evidence from Malpighiaceae. <i>International Journal of Plant Sciences</i> , <b>2004</b> , 165, S107-S121	2.6	58
12	Elatinaceae are sister to Malpighiaceae; Peridiscaceae belong to Saxifragales. <i>American Journal of Botany</i> , <b>2004</b> , 91, 262-73	2.7	78
11	Host-to-parasite gene transfer in flowering plants: phylogenetic evidence from Malpighiales. <i>Science</i> , <b>2004</b> , 305, 676-8	33.3	199
10	Phylogeny of Acridocarpus-Brachylophon (Malpighiaceae): implications for tertiary tropical floras and Afroasian biogeography. <i>Evolution; International Journal of Organic Evolution</i> , <b>2002</b> , 56, 2395-405	3.8	92
9	PHYLOGENY OF ACRIDOCARPUS-BRACHYLOPHON (MALPIGHIACEAE): IMPLICATIONS FOR TERTIARY TROPICAL FLORAS AND AFROASIAN BIOGEOGRAPHY. <i>Evolution; International Journal of Organic Evolution</i> , <b>2002</b> , 56, 2395	3.8	4
8	Laurasian migration explains Gondwanan disjunctions: evidence from Malpighiaceae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 6833-7	11.5	256
7	Madagasikaria (Malpighiaceae): a new genus from Madagascar with implications for floral evolution in Malpighiaceae. <i>American Journal of Botany</i> , <b>2002</b> , 89, 699-706	2.7	20
6	Phylogeny of Malpighiaceae: evidence from chloroplast ndhF and trnL-F nucleotide sequences. <i>American Journal of Botany</i> , <b>2001</b> , 88, 1830-1846	2.7	95
5	Widespread sampling biases in herbaria revealed from large-scale digitization		1
4	Response to Kozlov et al.: Inaccurate estimation of biases in herbarium specimen data		1
3	Back to the future: a refined single user photostation for massively scaling herbarium digitization		1
2	Selfing species exhibit diminished niche breadth over time		2
1	Parasitic flowering plant collections embody the extended specimen. <i>Methods in Ecology and Evolution</i> ,	7.7	0