

Fay-Wei Li

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296
papers

9,854
citations

48
h-index

87
g-index

311
ext. papers

12,640
ext. citations

5.4
avg, IF

7.29
L-index

#	Paper	IF	Citations
296	A community-derived classification for extant lycophytes and ferns. <i>Journal of Systematics and Evolution</i> , 2016 , 54, 563-603	2.9	562
295	One thousand plant transcriptomes and the phylogenomics of green plants. <i>Nature</i> , 2019 , 574, 679-685	50.4	529
294	Invariant scaling relations across tree-dominated communities. <i>Nature</i> , 2001 , 410, 655-60	50.4	490
293	The evolution and functional significance of leaf shape in the angiosperms. <i>Functional Plant Biology</i> , 2011 , 38, 535-552	2.7	266
292	Plant allometry: is there a grand unifying theory?. <i>Biological Reviews</i> , 2004 , 79, 871-89	13.5	218
291	Patterns in vascular land plant diversification. <i>Nature</i> , 1983 , 303, 614-616	50.4	210
290	Thermodynamic and metabolic effects on the scaling of production and population energy use. <i>Ecology Letters</i> , 2003 , 6, 990-995	10	193
289	Nitrogen/phosphorus leaf stoichiometry and the scaling of plant growth. <i>Ecology Letters</i> , 2005 , 8, 636-642		179
288	The <i>Physcomitrella patens</i> chromosome-scale assembly reveals moss genome structure and evolution. <i>Plant Journal</i> , 2018 , 93, 515-533	6.9	176
287	Fern genomes elucidate land plant evolution and cyanobacterial symbioses. <i>Nature Plants</i> , 2018 , 4, 460-472	11.5	176
286	Growth and hydraulic (not mechanical) constraints govern the scaling of tree height and mass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 15661-3	11.5	173
285	On the vegetative biomass partitioning of seed plant leaves, stems, and roots. <i>American Naturalist</i> , 2002 , 159, 482-97	3.7	153
284	"Diminishing returns" in the scaling of functional leaf traits across and within species groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 8891-6	11.5	143
283	Super-resolution ribosome profiling reveals unannotated translation events in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7126-E7135	11.5	124
282	Plant allometry, leaf nitrogen and phosphorus stoichiometry, and interspecific trends in annual growth rates. <i>Annals of Botany</i> , 2006 , 97, 155-63	4.1	122
281	Horizontal transfer of an adaptive chimeric photoreceptor from bryophytes to ferns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6672-7	11.5	121
280	The evolution of the land plant life cycle. <i>New Phytologist</i> , 2010 , 185, 27-41	9.8	118

279	The evolutionary history of ferns inferred from 25 low-copy nuclear genes. <i>American Journal of Botany</i> , 2015 , 102, 1089-107	2.7	114
278	Canonical rules for plant organ biomass partitioning and annual allocation. <i>American Journal of Botany</i> , 2002 , 89, 812-9	2.7	110
277	10KP: A phylodiverse genome sequencing plan. <i>GigaScience</i> , 2018 , 7, 1-9	7.6	108
276	The origins of multicellular organisms. <i>Evolution & Development</i> , 2013 , 15, 41-52	2.6	101
275	Tree size frequency distributions, plant density, age and community disturbance. <i>Ecology Letters</i> , 2003 , 6, 405-411	10	101
274	Phytochrome diversity in green plants and the origin of canonical plant phytochromes. <i>Nature Communications</i> , 2015 , 6, 7852	17.4	100
273	First insights into fern matK phylogeny. <i>Molecular Phylogenetics and Evolution</i> , 2011 , 59, 556-66	4.1	100
272	Modelling below- and above-ground biomass for non-woody and woody plants. <i>Annals of Botany</i> , 2005 , 95, 315-21	4.1	97
271	Worldwide correlations of mechanical properties and green wood density. <i>American Journal of Botany</i> , 2010 , 97, 1587-94	2.7	95
270	The evolutionary-developmental origins of multicellularity. <i>American Journal of Botany</i> , 2014 , 101, 6-25	2.7	89
269	Mechanical and photosynthetic constraints on the evolution of plant shape. <i>Paleobiology</i> , 1984 , 10, 79-101	10.6	83
268	A phyletic perspective on the allometry of plant biomass-partitioning patterns and functionally equivalent organ-categories. <i>New Phytologist</i> , 2006 , 171, 27-40	9.8	82
267	Anthoceros genomes illuminate the origin of land plants and the unique biology of hornworts. <i>Nature Plants</i> , 2020 , 6, 259-272	11.5	77
266	Genetic Analysis of <i>Physcomitrella patens</i> Identifies ABSCISIC ACID NON-RESPONSIVE, a Regulator of ABA Responses Unique to Basal Land Plants and Required for Desiccation Tolerance. <i>Plant Cell</i> , 2016 , 28, 1310-27	11.6	73
265	Maximum plant height and the biophysical factors that limit it. <i>Tree Physiology</i> , 2007 , 27, 433-40	4.2	72
264	Rethinking gene regulatory networks in light of alternative splicing, intrinsically disordered protein domains, and post-translational modifications. <i>Frontiers in Cell and Developmental Biology</i> , 2015 , 3, 8	5.7	71
263	The mechanical role of bark. <i>American Journal of Botany</i> , 1999 , 86, 465-469	2.7	66
262	An Exploration into Fern Genome Space. <i>Genome Biology and Evolution</i> , 2015 , 7, 2533-44	3.9	63

261	N, P, and C stoichiometry of <i>Eranthis hyemalis</i> (Ranunculaceae) and the allometry of plant growth. <i>American Journal of Botany</i> , 2005 , 92, 1256-63	2.7	61
260	The origin and evolution of phototropins. <i>Frontiers in Plant Science</i> , 2015 , 6, 637	6.2	56
259	Between two fern genomes. <i>GigaScience</i> , 2014 , 3, 15	7.6	56
258	rbcl and matK earn two thumbs up as the core DNA barcode for ferns. <i>PLoS ONE</i> , 2011 , 6, e26597	3.7	56
257	The evolutionary development of plant body plans. <i>Functional Plant Biology</i> , 2009 , 36, 682-695	2.7	55
256	Global warming reduces plant reproductive output for temperate multi-inflorescence species on the Tibetan plateau. <i>New Phytologist</i> , 2012 , 195, 427-436	9.8	54
255	Global leaf nitrogen and phosphorus stoichiometry and their scaling exponent. <i>National Science Review</i> , 2018 , 5, 728-739	10.8	52
254	Gaga, a New Fern Genus Segregated from Cheilanthes (Pteridaceae). <i>Systematic Botany</i> , 2012 , 37, 845-860		52
253	THE ROLE OF PHYLLOTACTIC PATTERN AS A "DEVELOPMENTAL CONSTRAINT" ON THE INTERCEPTION OF LIGHT BY LEAF SURFACES. <i>Evolution; International Journal of Organic Evolution</i> , 1988 , 42, 1-16	3.8	52
252	Predicting the height of fossil plant remains: an allometric approach to an old problem 1994 , 81, 1235		51
251	An ancestral signalling pathway is conserved in intracellular symbioses-forming plant lineages. <i>Nature Plants</i> , 2020 , 6, 280-289	11.5	50
250	Next-generation polyploid phylogenetics: rapid resolution of hybrid polyploid complexes using PacBio single-molecule sequencing. <i>New Phytologist</i> , 2017 , 213, 413-429	9.8	50
249	THE MOTION OF WINDBORNE POLLEN GRAINS AROUND CONIFER OVULATE CONES: IMPLICATIONS ON WIND POLLINATION. <i>American Journal of Botany</i> , 1984 , 71, 356-374	2.7	49
248	COMPUTER MODELS OF EARLY LAND PLANT EVOLUTION. <i>Annual Review of Earth and Planetary Sciences</i> , 2004 , 32, 47-66	15.3	48
247	Microbial-type terpene synthase genes occur widely in nonseed land plants, but not in seed plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12328-12333	11.5	48
246	Biomass partitioning and leaf N,P - stoichiometry: comparisons between tree and herbaceous current-year shoots. <i>Plant, Cell and Environment</i> , 2006 , 29, 2030-42	8.4	47
245	THE ELASTIC MODULI AND MECHANICS OF POPULUS TREMULOIDES (SALICACEAE) PETIOLES IN BENDING AND TORSION. <i>American Journal of Botany</i> , 1991 , 78, 989-996	2.7	46
244	Transcriptome-mining for single-copy nuclear markers in ferns. <i>PLoS ONE</i> , 2013 , 8, e76957	3.7	44

243	A comparison between the record height-to-stem diameter allometries of <i>Pachycaulis</i> and <i>Leptocaulis</i> species. <i>Annals of Botany</i> , 2006 , 97, 79-83	4.1	42
242	Genes Translocated into the Plastid Inverted Repeat Show Decelerated Substitution Rates and Elevated GC Content. <i>Genome Biology and Evolution</i> , 2016 , 8, 2452-8	3.9	41
241	The evolution of hydrophobic cell wall biopolymers: from algae to angiosperms. <i>Journal of Experimental Botany</i> , 2017 , 68, 5261-5269	7	41
240	The role of the epidermis as a stiffening agent in <i>Tulipa</i> (Liliaceae) stems. <i>American Journal of Botany</i> , 1997 , 84, 735-744	2.7	41
239	DEPENDENCY OF THE TENSILE MODULUS ON TRANSVERSE DIMENSIONS, WATER POTENTIAL, AND CELL NUMBER OF PITH PARENCHYMA. <i>American Journal of Botany</i> , 1988 , 75, 1286-1292	2.7	41
238	Predicting the height of fossil plant remains: an allometric approach to an old problem. <i>American Journal of Botany</i> , 1994 , 81, 1235-1242	2.7	40
237	FLEXURAL STIFFNESS AND MODULUS OF ELASTICITY OF FLOWER STALKS FROM <i>ALLIUM SATIVUM</i> AS MEASURED BY MULTIPLE RESONANCE FREQUENCY SPECTRA. <i>American Journal of Botany</i> , 1988 , 75, 1517-1525	2.7	39
236	Artificial asymmetric warming reduces nectar yield in a Tibetan alpine species of Asteraceae. <i>Annals of Botany</i> , 2015 , 116, 899-906	4.1	38
235	Identifying a mysterious aquatic fern gametophyte. <i>Plant Systematics and Evolution</i> , 2009 , 281, 77-86	1.3	38
234	Petiole mechanics, light interception by Lamina, and "Economy in Design". <i>Oecologia</i> , 1992 , 90, 518-526	2.9	38
233	A guide to sequence your favorite plant genomes. <i>Applications in Plant Sciences</i> , 2018 , 6, e1030	2.3	37
232	Adaptive walks through fitness landscapes for early vascular land plants. <i>American Journal of Botany</i> , 1997 , 84, 16-25	2.7	36
231	Plant biomechanics: an overview and prospectus. <i>American Journal of Botany</i> , 2006 , 93, 1369-78	2.7	36
230	Computing factors of safety against wind-induced tree stem damage. <i>Journal of Experimental Botany</i> , 2000 , 51, 797-806	7	36
229	Predicting the allometry of leaf surface area and dry mass. <i>American Journal of Botany</i> , 2009 , 96, 531-6	2.7	33
228	Evidence for "diminishing returns" from the scaling of stem diameter and specific leaf area. <i>American Journal of Botany</i> , 2008 , 95, 549-57	2.7	33
227	Evolutionary trends in safety factors against wind-induced stem failure. <i>American Journal of Botany</i> , 2001 , 88, 1266-1278	2.7	33
226	MECHANICAL BEHAVIOR OF PLANT TISSUES AS INFERRED FROM THE THEORY OF PRESSURIZED CELLULAR SOLIDS 1989 , 76, 929		33

225	The allometry of safety-factors for plant height 1994 , 81, 345		33
224	Ontogenetic shift in the scaling of dark respiration with whole-plant mass in seven shrub species. <i>Functional Ecology</i> , 2010 , 24, 502-512	5.6	32
223	Size-dependent species richness: trends within plant communities and across latitude. <i>Ecology Letters</i> , 2003 , 6, 631-636	10	32
222	Evidence for a conducting strand in early Silurian (Llandoveryan) plants: implications for the evolution of the land plants. <i>Paleobiology</i> , 1983 , 9, 126-137	2.6	32
221	FLEXURAL RIGIDITY OF CHIVE AND ITS RESPONSE TO WATER POTENTIAL. <i>American Journal of Botany</i> , 1987 , 74, 1033-1044	2.7	31
220	A general review of the biomechanics of root anchorage. <i>Journal of Experimental Botany</i> , 2019 , 70, 3439-3451	3.451	30
219	Size-related changes in the primary xylem anatomy of some early tracheophytes. <i>Paleobiology</i> , 1984 , 10, 487-506	2.6	30
218	The evolutionary origins of cell type diversification and the role of intrinsically disordered proteins. <i>Journal of Experimental Botany</i> , 2018 , 69, 1437-1446	7	29
217	Reconstructing trait evolution in plant evo-devo studies. <i>Current Biology</i> , 2019 , 29, R1110-R1118	6.3	29
216	Allometric theory and the mechanical stability of large trees: proof and conjecture. <i>American Journal of Botany</i> , 2006 , 93, 824-8	2.7	29
215	On the evolutionary significance of horizontal gene transfers in plants. <i>New Phytologist</i> , 2020 , 225, 113-118	118	29
214	Aerodynamics and pollen ultrastructure in Ephedra. <i>American Journal of Botany</i> , 2015 , 102, 457-70	2.7	28
213	Evolutionary aspects of plant photoreceptors. <i>Journal of Plant Research</i> , 2016 , 129, 115-22	2.6	28
212	The biomechanics of Pachycereus pringlei root systems. <i>American Journal of Botany</i> , 2002 , 89, 12-21	2.7	28
211	A REEVALUATION OF THE ZOSTEROPHYLLOPHYTINA WITH COMMENTS ON THE ORIGIN OF LYCOPODS. <i>American Journal of Botany</i> , 1990 , 77, 274-283	2.7	28
210	Computer simulations of early land plant branching morphologies: canalization of patterns during evolution?. <i>Paleobiology</i> , 1982 , 8, 196-210	2.6	28
209	Large-scale phylogenomic analysis suggests three ancient superclades of the WUSCHEL-RELATED HOMEODOMAIN transcription factor family in plants. <i>PLoS ONE</i> , 2019 , 14, e0223521	3.7	27
208	GROWTH PATTERNS OF PLANTS THAT MAXIMIZE VERTICAL GROWTH AND MINIMIZE INTERNAL STRESSES. <i>American Journal of Botany</i> , 1982 , 69, 1367-1374	2.7	27

207	THE ALLOMETRY OF PLANT REPRODUCTIVE BIOMASS AND STEM DIAMETER 1993 , 80, 461		27
206	Tissue-direct PCR, a rapid and extraction-free method for barcoding of ferns. <i>Molecular Ecology Resources</i> , 2010 , 10, 92-5	8.4	26
205	A REEVALUATION OF THE ZOSTEROPHYLLOPHYTINA WITH COMMENTS ON THE ORIGIN OF LYCOPODS 1990 , 77, 274		26
204	The evo-devo of multinucleate cells, tissues, and organisms, and an alternative route to multicellularity. <i>Evolution & Development</i> , 2013 , 15, 466-74	2.6	25
203	MECHANICAL BEHAVIOR OF PLANT TISSUES AS INFERRED FROM THE THEORY OF PRESSURIZED CELLULAR SOLIDS. <i>American Journal of Botany</i> , 1989 , 76, 929-937	2.7	25
202	BIOMECHANICS OF PSILOTUM NUDUM AND SOME EARLY PALEOZOIC VASCULAR SPOROPHYTES. <i>American Journal of Botany</i> , 1990 , 77, 590-606	2.7	25
201	Size-dependent variations in plant growth rates and the 3/4-power rule 1994 , 81, 134		25
200	Functional adaptation and phenotypic plasticity at the cellular and whole plant level. <i>Journal of Biosciences</i> , 2009 , 34, 613-20	2.3	24
199	The allometry of safety-factors for plant height. <i>American Journal of Botany</i> , 1994 , 81, 345-351	2.7	24
198	The scaling of the hydraulic architecture in poplar leaves. <i>New Phytologist</i> , 2017 , 214, 145-157	9.8	23
197	Wood biomechanics and anatomy of PACHYCEREUS PRINGLEI. <i>American Journal of Botany</i> , 2000 , 87, 469-481	2.7	23
196	The allometry of saguaro height 1994 , 81, 1161		23
195	Effects of hypothetical developmental barriers and abrupt environmental changes on adaptive walks in a computer-generated domain for early vascular land plants. <i>Paleobiology</i> , 1997 , 23, 63-76	2.6	22
194	THE ALLOMETRY OF PLANT REPRODUCTIVE BIOMASS AND STEM DIAMETER. <i>American Journal of Botany</i> , 1993 , 80, 461-467	2.7	22
193	THE MOTION OF WINDBORNE POLLEN GRAINS AROUND CONIFER OVULATE CONES: IMPLICATIONS ON WIND POLLINATION 1984 , 71, 356		22
192	Lamina shape does not correlate with lamina surface area: An analysis based on the simplified Gielis equation. <i>Global Ecology and Conservation</i> , 2019 , 19, e00666	2.8	21
191	Leaf shape influences the scaling of leaf dry mass vs. area: a test case using bamboos. <i>Annals of Forest Science</i> , 2020 , 77, 1	3.1	21
190	"Diminishing returns" in the scaling of leaf area vs. dry mass in Wuyi Mountain bamboos, Southeast China. <i>American Journal of Botany</i> , 2017 , 104, 993-998	2.7	21

189	Domesticated honey bees evolutionarily reduce flower nectar volume in a Tibetan lotus. <i>Ecology</i> , 2014 , 95, 3161-3172	4.6	21
188	FLEXURAL STIFFNESS ALLOMETRIES OF ANGIOSPERM AND FERN PETIOLES AND RACHISES: EVIDENCE FOR BIOMECHANICAL CONVERGENCE. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 734-750	3.8	21
187	BRANCHING PATTERNS OF SALICORNIA EUROPAEA (CHENOPODIACEAE) AT DIFFERENT SUCCESSIONAL STAGES: A COMPARISON OF THEORETICAL AND REAL PLANTS. <i>American Journal of Botany</i> , 1988 , 75, 501-512	2.7	21
186	Identifying Morphological and Mechanical Traits Associated with Stem Lodging in Bioenergy Sorghum (<i>Sorghum bicolor</i>). <i>Bioenergy Research</i> , 2017 , 10, 635-647	3.1	20
185	NCP activates chloroplast transcription by controlling phytochrome-dependent dual nuclear and plastidial switches. <i>Nature Communications</i> , 2019 , 10, 2630	17.4	20
184	Phloem networks in leaves. <i>Current Opinion in Plant Biology</i> , 2018 , 43, 29-35	9.9	20
183	The Bio-Logic and machinery of plant morphogenesis. <i>American Journal of Botany</i> , 2003 , 90, 515-25	2.7	20
182	CONIFER OVULATE CONE MORPHOLOGY: IMPLICATIONS ON POLLEN IMPACTION PATTERNS. <i>American Journal of Botany</i> , 1983 , 70, 568-577	2.7	20
181	AERODYNAMICS OF EPHEDRA TRIFURCA: I. POLLEN GRAIN VELOCITY FIELDS AROUND STEMS BEARING OVULES. <i>American Journal of Botany</i> , 1986 , 73, 966-979	2.7	20
180	Biophysical effects on plant competition and coexistence. <i>Functional Ecology</i> , 2013 , 27, 854-864	5.6	19
179	Crowdfunding the Azolla fern genome project: a grassroots approach. <i>GigaScience</i> , 2014 , 3, 16	7.6	19
178	The effect of twig architecture and seed number on seed size variation in subtropical woody species. <i>New Phytologist</i> , 2009 , 183, 1212-1221	9.8	19
177	Preferential states of longitudinal tension in the outer tissues of <i>Taraxacum Officinale</i> (Asteraceae) peduncles. <i>American Journal of Botany</i> , 1998 , 85, 1068-1081	2.7	19
176	THE INFLUENCE OF PALEOZOIC OVULE AND CUPULE MORPHOLOGIES ON WIND POLLINATION. <i>Evolution; International Journal of Organic Evolution</i> , 1983 , 37, 968-986	3.8	19
175	DEPENDENCY OF THE TENSILE MODULUS ON TRANSVERSE DIMENSIONS, WATER POTENTIAL, AND CELL NUMBER OF PITH PARENCHYMA 1988 , 75, 1286		19
174	Charting the genomic landscape of seed-free plants. <i>Nature Plants</i> , 2021 , 7, 554-565	11.5	19
173	Dynamical Patterning Modules, Biogenic Materials, and the Evolution of Multicellular Plants. <i>Frontiers in Plant Science</i> , 2018 , 9, 871	6.2	19
172	Order-level fern plastome phylogenomics: new insights from Hymenophyllales. <i>American Journal of Botany</i> , 2018 , 105, 1545-1555	2.7	19

171	Carica papaya (Caricaceae): a case study into the effects of domestication on plant vegetative growth and reproduction. <i>American Journal of Botany</i> , 2007 , 94, 999-1002	2.7	18
170	The allometry of saguaro height. <i>American Journal of Botany</i> , 1994 , 81, 1161-1168	2.7	18
169	GROWTH PATTERNS OF PLANTS THAT MAXIMIZE VERTICAL GROWTH AND MINIMIZE INTERNAL STRESSES 1982 , 69, 1367		18
168	Organellomic data sets confirm a cryptic consensus on (unrooted) land-plant relationships and provide new insights into bryophyte molecular evolution. <i>American Journal of Botany</i> , 2020 , 107, 91-115	2.7	18
167	Is there foul play in the leaf pocket? The metagenome of floating fern Azolla reveals endophytes that do not fix N but may denitrify. <i>New Phytologist</i> , 2018 , 217, 453-466	9.8	17
166	Maidenhair Ferns, Adiantum, are Indeed Monophyletic and Sister to Shoestring Ferns, Vittarioids (Pteridaceae). <i>Systematic Botany</i> , 2016 , 41, 17-23	0.7	17
165	The scaling of fine root nitrogen versus phosphorus in terrestrial plants: A global synthesis. <i>Functional Ecology</i> , 2019 , 33, 2081-2094	5.6	17
164	Complete Genomes of Symbiotic Cyanobacteria Clarify the Evolution of Vanadium-Nitrogenase. <i>Genome Biology and Evolution</i> , 2019 , 11, 1959-1964	3.9	17
163	Did meiosis evolve before sex and the evolution of eukaryotic life cycles?. <i>BioEssays</i> , 2014 , 36, 1091-101	4.1	17
162	Biophysical and size-dependent perspectives on plant evolution. <i>Journal of Experimental Botany</i> , 2013 , 64, 4817-27	7	17
161	Differences in the scaling of area and mass of Ginkgo biloba (Ginkgoaceae) leaves and their relevance to the study of specific leaf area. <i>American Journal of Botany</i> , 2011 , 98, 1381-6	2.7	17
160	Biomechanics of the columnar cactus Pachycereus pringlei. <i>American Journal of Botany</i> , 1999 , 86, 767-775	7	17
159	AERODYNAMICS OF WIND POLLINATION IN SIMMONDSIA CHINENSIS (LINK) SCHNEIDER. <i>American Journal of Botany</i> , 1985 , 72, 530-539	2.7	17
158	The hornworts: morphology, evolution and development. <i>New Phytologist</i> , 2021 , 229, 735-754	9.8	17
157	Genome-wide organellar analyses from the hornwort Leiosporoceros dussii show low frequency of RNA editing. <i>PLoS ONE</i> , 2018 , 13, e0200491	3.7	16
156	Plant development, auxin, and the subsystem incompleteness theorem. <i>Frontiers in Plant Science</i> , 2012 , 3, 37	6.2	16
155	Interspecific allometries of critical buckling height and actual plant height. <i>American Journal of Botany</i> , 1994 , 81, 1275-1279	2.7	16
154	Size-dependent variations in plant growth rates and the $\frac{3}{4}$ -power rule. <i>American Journal of Botany</i> , 1994 , 81, 134-144	2.7	16

153	ORGANELLE PRESERVATION AND PROTOPLAST PARTITIONING IN FOSSIL ANGIOSPERM LEAF TISSUES. <i>American Journal of Botany</i> , 1983 , 70, 543-548	2.7	16
152	Interspecific allometries of critical buckling height and actual plant height 1994 , 81, 1275		16
151	The phycocyanobilin chromophore of streptophyte algal phytochromes is synthesized by HY2. <i>New Phytologist</i> , 2017 , 214, 1145-1157	9.8	15
150	The hydraulic architecture of Ginkgo leaves. <i>American Journal of Botany</i> , 2017 , 104, 1285-1298	2.7	15
149	On the mechanical properties of the rare endemic cactus <i>Stenocereus eruca</i> and the related species <i>S. gummosus</i> . <i>American Journal of Botany</i> , 2003 , 90, 663-74	2.7	15
148	Stem biomechanics of three columnar cacti from the Sonoran Desert. <i>American Journal of Botany</i> , 1998 , 85, 1082-1090	2.7	15
147	COMPUTER PROGRAM FOR THREE-DIMENSIONAL RECONSTRUCTIONS AND NUMERICAL ANALYSES OF PLANT ORGANS FROM SERIAL SECTIONS. <i>American Journal of Botany</i> , 1987 , 74, 1595-1599	3.7	15
146	FLEXURAL RIGIDITY OF CHIVE AND ITS RESPONSE TO WATER POTENTIAL 1987 , 74, 1033		15
145	Comparisons among biomass allocation and spatial distribution patterns of some vine, pteridophyte, and gymnosperm shoots 1994 , 81, 1416		15
144	Hornworts: An Overlooked Window into Carbon-Concentrating Mechanisms. <i>Trends in Plant Science</i> , 2017 , 22, 275-277	13.1	14
143	Isometric scaling of above- and below-ground biomass at the individual and community levels in the understorey of a sub-tropical forest. <i>Annals of Botany</i> , 2015 , 115, 303-13	4.1	14
142	The Hybrid Origin of <i>Adiantum meishanianum</i> (Pteridaceae): A Rare and Endemic Species in Taiwan. <i>Systematic Botany</i> , 2014 , 39, 1034-1041	0.7	14
141	Boechera microsatellite website: an online portal for species identification and determination of hybrid parentage. <i>Database: the Journal of Biological Databases and Curation</i> , 2017 , 2017,	5	14
140	Flexural Stiffness and Modulus of Elasticity of Flower Stalks from <i>Allium sativum</i> as Measured by Multiple Resonance Frequency Spectra. <i>American Journal of Botany</i> , 1988 , 75, 1517	2.7	14
139	THE ELASTIC MODULI AND MECHANICS OF <i>POPULUS TREMULOIDES</i> (SALICACEAE) PETIOLES IN BENDING AND TORSION 1991 , 78, 989		14
138	Comparison of the Scaling Relationships of Leaf Biomass versus Surface Area between Spring and Summer for Two Deciduous Tree Species. <i>Forests</i> , 2020 , 11, 1010	2.8	14
137	Plant science decadal vision 2020-2030: Reimagining the potential of plants for a healthy and sustainable future. <i>Plant Direct</i> , 2020 , 4, e00252	3.3	14
136	Leaf Bilateral Symmetry and the Scaling of the Perimeter vs. the Surface Area in 15 Vine Species. <i>Forests</i> , 2020 , 11, 246	2.8	13

135	Ontogenetic changes in the numbers of short- vs. long-shoots account for decreasing specific leaf area in <i>Acer rubrum</i> (Aceraceae) as trees increase in size. <i>American Journal of Botany</i> , 2010 , 97, 27-37	2.7	13
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