

Frederic Lens

List of Publications by Year in descending order

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77
papers

9,731
citations

147801

31
h-index

71685

76
g-index

79
all docs

79
docs citations

79
times ranked

13249
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY â€“ a global database of plant traits. <i>Global Change Biology</i> , 2011, 17, 2905-2935.	9.5	2,002
2	Global convergence in the vulnerability of forests to drought. <i>Nature</i> , 2012, 491, 752-755.	27.8	1,944
3	TRY plant trait database â€“ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
4	Weak tradeoff between xylem safety and xylemâ€™specific hydraulic efficiency across the world's woody plant species. <i>New Phytologist</i> , 2016, 209, 123-136.	7.3	466
5	Global traitâ€™environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	7.8	397
6	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
7	Testing hypotheses that link wood anatomy to cavitation resistance and hydraulic conductivity in the genus <i>Acer</i> . <i>New Phytologist</i> , 2011, 190, 709-723.	7.3	393
8	Flowering-time genes modulate meristem determinacy and growth form in <i>Arabidopsis thaliana</i> . <i>Nature Genetics</i> , 2008, 40, 1489-1492.	21.4	353
9	Evolution of endemism on a young tropical mountain. <i>Nature</i> , 2015, 524, 347-350.	27.8	234
10	Embolism resistance as a key mechanism to understand adaptive plant strategies. <i>Current Opinion in Plant Biology</i> , 2013, 16, 287-292.	7.1	181
11	INTERVESSEL PIT MEMBRANE THICKNESS AS A KEY DETERMINANT OF EMBOLISM RESISTANCE IN ANGIOSPERM XYLEM. <i>IAWA Journal</i> , 2016, 37, 152-171.	2.7	169
12	IAWA List of Microscopic Bark Features. <i>IAWA Journal</i> , 2016, 37, 517-615.	2.7	167
13	Insular Woodiness on the Canary Islands: A Remarkable Case of Convergent Evolution. <i>International Journal of Plant Sciences</i> , 2013, 174, 992-1013.	1.3	104
14	Variation in xylem structure from tropics to tundra: Evidence from vestured pits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8833-8837.	7.1	92
15	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. <i>Nature Ecology and Evolution</i> , 2022, 6, 36-50.	7.8	89
16	Do quantitative vessel and pit characters account for ionâ€™mediated changes in the hydraulic conductance of angiosperm xylem?. <i>New Phytologist</i> , 2011, 189, 218-228.	7.3	74
17	A network model links wood anatomy to xylem tissue hydraulic behaviour and vulnerability to cavitation. <i>Plant, Cell and Environment</i> , 2018, 41, 2718-2730.	5.7	71
18	Herbaceous angiosperms are not more vulnerable to drought-induced embolism than angiosperm trees. <i>Plant Physiology</i> , 2016, 172, pp.00829.2016.	4.8	70

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19	Vulnerability to xylem embolism as a major correlate of the environmental distribution of rain forest species on a tropical island. <i>Plant, Cell and Environment</i> , 2017, 40, 277-289.	5.7	67
20	Intervascular pit membranes with a torus in the wood of <i>Ulmus</i> (Ulmaceae) and related genera. <i>New Phytologist</i> , 2004, 163, 51-59.	7.3	61
21	Palynological Characters and Their Phylogenetic Signal in Rubiaceae. <i>Botanical Review, The</i> , 2005, 71, 354-414.	3.9	55
22	Ecological trends in the wood anatomy of Vaccinioideae (Ericaceae s.l.). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2004, 199, 309-319.	1.2	49
23	Large volume vessels are vulnerable to water-stress-induced embolism in stems of poplar. <i>IAWA Journal</i> , 2019, 40, 4-S4.	2.7	49
24	sPlotOpen – An environmentally balanced, open-access, global dataset of vegetation plots. <i>Global Ecology and Biogeography</i> , 2021, 30, 1740-1764.	5.8	49
25	Stem anatomy supports <i>Arabidopsis thaliana</i> as a model for insular woodiness. <i>New Phytologist</i> , 2012, 193, 12-17.	7.3	48
26	Insular woody daisies (<i>Argyranthemum</i> , Asteraceae) are more resistant to drought-induced hydraulic failure than their herbaceous relatives. <i>Functional Ecology</i> , 2018, 32, 1467-1478.	3.6	46
27	In-depth study of the microstructure of bamboo fibres and their relation to the mechanical properties. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 1099-1113.	3.1	45
28	The role of wood anatomy in phylogeny reconstruction of Ericales. <i>Cladistics</i> , 2007, 23, 229-294.	3.3	40
29	Traits and trade-offs in whole-tree hydraulic architecture along the vertical axis of <i>Eucalyptus grandis</i> . <i>Annals of Botany</i> , 2018, 121, 129-141.	2.9	40
30	Relationships within balsaminoid Ericales: a wood anatomical approach. <i>American Journal of Botany</i> , 2005, 92, 941-953.	1.7	34
31	The multiple fuzzy origins of woodiness within Balsaminaceae using an integrated approach. <i>Where do we draw the line?</i> . <i>Annals of Botany</i> , 2012, 109, 783-799.	2.9	34
32	Scalariform-to-simple transition in vessel perforation plates triggered by differences in climate during the evolution of Adoxaceae. <i>Annals of Botany</i> , 2016, 118, 1043-1056.	2.9	34
33	Exploring the Hydraulic Failure Hypothesis of Esca Leaf Symptom Formation. <i>Plant Physiology</i> , 2019, 181, 1163-1174.	4.8	32
34	Embolism resistance in stems of herbaceous Brassicaceae and Asteraceae is linked to differences in woodiness and precipitation. <i>Annals of Botany</i> , 2019, 124, 1-14.	2.9	32
35	A comparison of paraffin and resin-based techniques used in bark anatomy. <i>Taxon</i> , 2011, 60, 841-851.	0.7	31
36	First steps in studying the origins of secondary woodiness in <i>Begonia</i> (Begoniaceae): combining anatomy, phylogenetics, and stem transcriptomics. <i>Biological Journal of the Linnean Society</i> , 2016, 117, 121-138.	1.6	30

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37	Vessel grouping patterns in subfamilies Apocynoideae and Periplocoideae confirm phylogenetic value of wood structure within Apocynaceae. <i>American Journal of Botany</i> , 2009, 96, 2168-2183.	1.7	29
38	Similar hydraulic efficiency and safety across vesselless angiosperms and vessel-bearing species with scalariform perforation plates. <i>Journal of Experimental Botany</i> , 2019, 70, 3227-3240.	4.8	29
39	Comparative Wood Anatomy of Epacrids (Styphelioideae, Ericaceae s.l.). <i>Annals of Botany</i> , 2003, 91, 835-856.	2.9	28
40	Embolism and mechanical resistances play a key role in dehydration tolerance of a perennial grass <i>Dactylis glomerata</i> L.. <i>Annals of Botany</i> , 2018, 122, 325-336.	2.9	28
41	Pit membranes in tracheary elements of Rosaceae and related families: new records of tori and pseudotori. <i>American Journal of Botany</i> , 2007, 94, 503-514.	1.7	27
42	Wood anatomy of Rauvolfioideae (Apocynaceae): a search for meaningful non-DNA characters at the tribal level. <i>American Journal of Botany</i> , 2008, 95, 1199-1215.	1.7	27
43	Woodiness within the Spermacoceae-Knoxieae alliance (Rubiaceae): retention of the basal woody condition in Rubiaceae or recent innovation?. <i>Annals of Botany</i> , 2009, 103, 1049-1064.	2.9	27
44	Functional network analysis of genes differentially expressed during xylogenesis in woody <i>Arabidopsis</i> plants. <i>Plant Journal</i> , 2016, 86, 376-390.	5.7	27
45	Palynological Variation in Balsaminoid Ericales. II. Balsaminaceae, Tetrameristaceae, Pellicieraceae and General Conclusions. <i>Annals of Botany</i> , 2005, 96, 1061-1073.	2.9	26
46	Palynological Variation in Balsaminoid Ericales. I. Marcgraviaceae. <i>Annals of Botany</i> , 2005, 96, 1047-1060.	2.9	26
47	Evolution of fruit and seed characters in the Diervilla and Lonicera clades (Caprifoliaceae). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i>	2.9	25
48	Forensic Identification of Indian Snakeroot (<i>Rauvolfia serpentina</i> Benth. ex Kurz) Using DNA Barcoding. <i>Journal of Forensic Sciences</i> , 2013, 58, 822-830.	1.6	24
49	Morphology, Carbohydrate Composition and Vernalization Response in a Genetically Diverse Collection of Asian and European Turnips (<i>Brassica rapa</i> subsp. <i>rapa</i>). <i>PLoS ONE</i> , 2014, 9, e114241.	2.5	23
50	Intervessel pit membrane thickness best explains variation in embolism resistance amongst stems of <i>Arabidopsis thaliana</i> accessions. <i>Annals of Botany</i> , 2021, 128, 171-182.	2.9	23
51	The Micromorphology of Pit Membranes in Tracheary Elements of Ericales: New Records of Tori or Pseudo-tori?. <i>Annals of Botany</i> , 2006, 98, 943-951.	2.9	22
52	A search for phylogenetically informative wood characters within Lecythidaceae s.l.. <i>American Journal of Botany</i> , 2007, 94, 483-502.	1.7	22
53	Evolution of woody life form on tropical mountains in the tribe Spermacoceae (Rubiaceae). <i>American Journal of Botany</i> , 2017, 104, 419-438.	1.7	22
54	Computer-assisted timber identification based on features extracted from microscopic wood sections. <i>IAWA Journal</i> , 2020, 41, 660-680.	2.7	22

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55	On research priorities to advance understanding of the safety-efficiency tradeoff in xylem. <i>New Phytologist</i> , 2016, 211, 1156-1158.	7.3	21
56	The Distribution and Phylogeny of Aluminium Accumulating Plants in the Ericales. <i>Plant Biology</i> , 2004, 6, 498-505.	3.8	20
57	Comparative Wood Anatomy of the Primuloid Clade (Ericales s.l.). <i>Systematic Botany</i> , 2005, 30, 163-183.	0.5	20
58	Vestured pits and scalariform perforation plate morphology modify the relationships between angiosperm vessel diameter, climate and maximum plant height. <i>New Phytologist</i> , 2019, 221, 1802-1813.	7.3	19
59	Temporal and palaeoclimatic context of the evolution of insular woodiness in the Canary Islands. <i>Ecology and Evolution</i> , 2021, 11, 12220-12231.	1.9	18
60	Intraspecific variation in embolism resistance and stem anatomy across four sunflower (<i>Helianthus annuus</i> L.) accessions. <i>Physiologia Plantarum</i> , 2018, 163, 59-72.	5.2	16
61	Axial sampling height outperforms site as predictor of wood trait variation. <i>IAWA Journal</i> , 2019, 40, 191-53.	2.7	16
62	Contributions to the Wood Anatomy of the Rubioideae (Rubiaceae). <i>Journal of Plant Research</i> , 2001, 114, 269-289.	2.4	15
63	Pollination and protection against herbivory of Nepalese Coelogyninae (Orchidaceae). <i>American Journal of Botany</i> , 2011, 98, 1095-1103.	1.7	12
64	Pollen morphological variation in Vanguerieae (Ixoroideae Rubiaceae). <i>Grana</i> , 2000, 39, 90-102.	0.8	10
65	Comparative wood anatomy of Andromedeae s.s., Gaultherieae, Lyonieae and Oxydendreae (Vaccinioideae, Ericaceae s.l.). <i>Botanical Journal of the Linnean Society</i> , 2004, 144, 161-179.	1.6	10
66	WOOD ANATOMY OF THE VANGUERIEAE (IXOROIDEAERUBIACEAE), WITH SPECIAL EMPHASIS ON SOME GEOFRUITICES. <i>IAWA Journal</i> , 2000, 21, 443-455.	2.7	9
67	Micromorphology and Systematic Distribution of Pit Membrane Thickenings in Oleaceae: Tori and Pseudo-Tori. <i>IAWA Journal</i> , 2008, 29, 409-424.	2.7	9
68	The phylogenetic significance of vestured pits in Boraginaceae. <i>Taxon</i> , 2010, 59, 510-516.	0.7	8
69	An extension of the Plant Ontology project supporting wood anatomy and development research. <i>IAWA Journal</i> , 2012, 33, 113-117.	2.7	8
70	Phylogenetic and Ecological Signals in the Wood of Spathelioideae (Rutaceae). <i>IAWA Journal</i> , 2012, 33, 337-353.	2.7	8
71	The effects of intervessel pit characteristics on xylem hydraulic efficiency and photosynthesis in hemiepiphytic and non-chemiepiphytic <i>Ficus</i> species. <i>Physiologia Plantarum</i> , 2019, 167, 661-675.	5.2	8
72	Evolution of wood anatomical characters in <i>Nepenthes</i> and close relatives of Caryophyllales. <i>Annals of Botany</i> , 2017, 119, 1179-1193.	2.9	7

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73	Inflorescence lignification of natural species and horticultural hybrids of Phalaenopsis orchids. <i>Scientia Horticulturae</i> , 2022, 295, 110845.	3.6	7
74	Q-NET “ a new scholarly network on quantitative wood anatomy. <i>Dendrochronologia</i> , 2021, 70, 125890.	2.2	6
75	A comparative ultrastructural study of pit membranes with plasmodesmata associated thickenings in four angiosperm species. <i>Protoplasma</i> , 2008, 233, 255-262.	2.1	5
76	Description and evolution of wood anatomical characters in the ebony wood genus <i>Diospyros</i> and its close relatives (Ebenaceae): a first step towards combatting illegal logging. <i>IAWA Journal</i> , 2020, 41, 577-619.	2.7	4
77	wood anatomy news: Message from the outgoing Executive Secretary. <i>IAWA Journal</i> , 2017, 38, 137-140.	2.7	0