Frederic Lens

List of Publications by Year
in descending order

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	Inflorescence lignification of natural species and horticultural hybrids of Phalaenopsis orchids. Scientia Horticulturae, 2022, 295, 110845.	3.6	7
2	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. Nature Ecology and Evolution, 2022, 6, 36-50.	7.8	89
3	sPlotOpen â€“ An environmentally balanced, openâ€access, global dataset of vegetation plots. Global Ecology and Biogeography, 2021, 30, 1740-1764.	5.8	49
4	Temporal and palaeoclimatic context of the evolution of insular woodiness in the Canary Islands. Ecology and Evolution, 2021, 11, 12220-12231.	1.9	18
5	Q-NET â€“ a new scholarly network on quantitative wood anatomy. Dendrochronologia, 2021, 70, 125890.	2.2	6
6	Intervessel pit membrane thickness best explains variation in embolism resistance amongst stems of <i>Arabidopsis thaliana</i> accessions. Annals of Botany, 2021, 128, 171-182.	2.9	23
7	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
8	Computer-assisted timber identification based on features extracted from microscopic wood sections. IAWA Journal, 2020, 41, 660-680.	2.7	22
9	Description and evolution of wood anatomical characters in the ebony wood genus Diospyros and its close relatives (Ebenaceae): a first step towards combatting illegal logging. IAWA Journal, 2020, 41, 577-619.	2.7	4
10	Exploring the Hydraulic Failure Hypothesis of Esca Leaf Symptom Formation. Plant Physiology, 2019, 181, 1163-1174.	4.8	32
11	Embolism resistance in stems of herbaceous Brassicaceae and Asteraceae is linked to differences in woodiness and precipitation. Annals of Botany, 2019, 124, 1-14.	2.9	32
12	Similar hydraulic efficiency and safety across vesselless angiosperms and vessel-bearing species with scalariform perforation plates. Journal of Experimental Botany, 2019, 70, 3227-3240.	4.8	29
13	Large volume vessels are vulnerable to water-stress-induced embolism in stems of poplar. IAWA Journal, 2019, 40, 4-S4.	2.7	49
14	Axial sampling height outperforms site as predictor of wood trait variation. IAWA Journal, 2019, 40, 191-S3.	2.7	16
15	The effects of intervessel pit characteristics on xylem hydraulic efficiency and photosynthesis in hemiepiphytic and nonâ€hemiepiphytic Ficus species. Physiologia Plantarum, 2019, 167, 661-675.	5.2	8
16	Vestured pits and scalariform perforation plate morphology modify the relationships between angiosperm vessel diameter, climate and maximum plant height. New Phytologist, 2019, 221, 1802-1813.	7.3	19
17	Traits and trade-offs in whole-tree hydraulic architecture along the vertical axis of Eucalyptus grandis. Annals of Botany, 2018, 121, 129-141.	2.9	40
18	Insular woody daisies (<i>Argyranthemum,</i> Asteraceae) are more resistant to droughtâ€induced hydraulic failure than their herbaceous relatives. Functional Ecology, 2018, 32, 1467-1478.	3.6	46

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19	Intraspecific variation in embolism resistance and stem anatomy across four sunflower (<scp><i>Helianthus annuus</i></scp> L.) accessions. Physiologia Plantarum, 2018, 163, 59-72.	5.2	16
20	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	7.8	397
21	Embolism and mechanical resistances play a key role in dehydration tolerance of a perennial grass Dactylis glomerata L.. Annals of Botany, 2018, 122, 325-336.	2.9	28
22	In-depth study of the microstructure of bamboo fibres and their relation to the mechanical properties. Journal of Reinforced Plastics and Composites, 2018, 37, 1099-1113.	3.1	45
23	A network model links wood anatomy to xylem tissue hydraulic behaviour and vulnerability to cavitation. Plant, Cell and Environment, 2018, 41, 2718-2730.	5.7	71
24	Evolution of wood anatomical characters in Nepenthes and close relatives of Caryophyllales. Annals of Botany, 2017, 119, 1179-1193.	2.9	7
25	wood anatomy news: Message from the outgoing Executive Secretary. IAWA Journal, 2017, 38, 137-140.	2.7	0
26	Evolution of woody life form on tropical mountains in the tribe Spermacoceae (Rubiaceae). American Journal of Botany, 2017, 104, 419-438.	1.7	22
27	Vulnerability to xylem embolism as a major correlate of the environmental distribution of rain forest species on a tropical island. Plant, Cell and Environment, 2017, 40, 277-289.	5.7	67
28	A synthesis of radial growth patterns preceding tree mortality. Global Change Biology, 2017, 23, 1675-1690.	9.5	394
29	Functional network analysis of genes differentially expressed during xylogenesis in <i>soc1ful</i> woody Arabidopsis plants. Plant Journal, 2016, 86, 376-390.	5.7	27
30	IAWA List of Microscopic Bark Features. IAWA Journal, 2016, 37, 517-615.	2.7	167
31	Weak tradeoff between xylem safety and xylemâ€specific hydraulic efficiency across the world's woody plant species. New Phytologist, 2016, 209, 123-136.	7.3	466
32	First steps in studying the origins of secondary woodiness in<i>Begonia</i>(Begoniaceae): combining anatomy, phylogenetics, and stem transcriptomics. Biological Journal of the Linnean Society, 2016, 117, 121-138.	1.6	30
33	On research priorities to advance understanding of the safetyâ€“efficiency tradeoff in xylem. New Phytologist, 2016, 211, 1156-1158.	7.3	21
34	Scalariform-to-simple transition in vessel perforation plates triggered by differences in climate during the evolution of Adoxaceae. Annals of Botany, 2016, 118, 1043-1056.	2.9	34
35	INTERVESSEL PIT MEMBRANE THICKNESS AS A KEY DETERMINANT OF EMBOLISM RESISTANCE IN ANGIOSPERM XYLEM. IAWA Journal, 2016, 37, 152-171.	2.7	169
36	Herbaceous angiosperms are not more vulnerable to drought-induced embolism than angiosperm trees. Plant Physiology, 2016, 172, pp.00829.2016.	4.8	70

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37	Evolution of endemism on a young tropical mountain. Nature, 2015, 524, 347-350.	27.8	234
38	Morphology, Carbohydrate Composition and Vernalization Response in a Genetically Diverse Collection of Asian and European Turnips (Brassica rapa subsp. rapa). PLoS ONE, 2014, 9, e114241.	2.5	23
39	Embolism resistance as a key mechanism to understand adaptive plant strategies. Current Opinion in Plant Biology, 2013, 16, 287-292.	7.1	181
40	Insular Woodiness on the Canary Islands: A Remarkable Case of Convergent Evolution. International Journal of Plant Sciences, 2013, 174, 992-1013.	1.3	104
41	Forensic Identification of Indian Snakeroot (<i>Rauvolfia serpentina</i> Benth. ex Kurz) Using <scp>DNA</scp> Barcoding. Journal of Forensic Sciences, 2013, 58, 822-830.	1.6	24
42	The multiple fuzzy origins of woodiness within Balsaminaceae using an integrated approach. Where do we draw the line?. Annals of Botany, 2012, 109, 783-799.	2.9	34
43	An extension of the Plant Ontology project supporting wood anatomy and development research. IAWA Journal, 2012, 33, 113-117.	2.7	8
44	Phylogenetic and Ecological Signals in the Wood of Spathelioideae (Rutaceae). IAWA Journal, 2012, 33, 337-353.	2.7	8
45	Global convergence in the vulnerability of forests to drought. Nature, 2012, 491, 752-755.	27.8	1,944
46	Stem anatomy supports <i>Arabidopsis thaliana</i> as a model for insular woodiness. New Phytologist, 2012, 193, 12-17.	7.3	48
47	A comparison of paraffin and resinâ€based techniques used in bark anatomy. Taxon, 2011, 60, 841-851.	0.7	31
48	TRY â€“ a global database of plant traits. Global Change Biology, 2011, 17, 2905-2935.	9.5	2,002
49	Do quantitative vessel and pit characters account for ionâ€mediated changes in the hydraulic conductance of angiosperm xylem?. New Phytologist, 2011, 189, 218-228.	7.3	74
50	Testing hypotheses that link wood anatomy to cavitation resistance and hydraulic conductivity in the genus <i>Acer</i>. New Phytologist, 2011, 190, 709-723.	7.3	393
51	Pollination and protection against herbivory of Nepalese Coelogyninae (Orchidaceae). American Journal of Botany, 2011, 98, 1095-1103.	1.7	12
52	The phylogenetic significance of vestured pits in Boraginaceae. Taxon, 2010, 59, 510-516.	0.7	8
53	Vessel grouping patterns in subfamilies Apocynoideae and Periplocoideae confirm phylogenetic value of wood structure within Apocynaceae. American Journal of Botany, 2009, 96, 2168-2183.	1.7	29
54	Evolution of fruit and seed characters in the Diervilla and Lonicera clades (Caprifoliaceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (D	2.9	25

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55	Woodiness within the Spermacoceaeâ€"Knoxieae alliance (Rubiaceae): retention of the basal woody condition in Rubiaceae or recent innovation?. Annals of Botany, 2009, 103, 1049-1064.	2.9	27
56	A comparative ultrastructural study of pit membranes with plasmodesmata associated thickenings in four angiosperm species. Protoplasma, 2008, 233, 255-262.	2.1	5
57	Flowering-time genes modulate meristem determinacy and growth form in Arabidopsis thaliana. Nature Genetics, 2008, 40, 1489-1492.	21.4	353
58	Micromorphology and Systematic Distribution of Pit Membrane Thickenings in Oleaceae: Tori and Pseudo-Tori. IAWA Journal, 2008, 29, 409-424.	2.7	9
59	Wood anatomy of Rauvolfioideae (Apocynaceae): a search for meaningful nonâ€ĐNA characters at the tribal level. American Journal of Botany, 2008, 95, 1199-1215.	1.7	27
60	Pit membranes in tracheary elements of Rosaceae and related families: new records of tori and pseudotori. American Journal of Botany, 2007, 94, 503-514.	1.7	27
61	A search for phylogenetically informative wood characters within Lecythidaceae s.l.. American Journal of Botany, 2007, 94, 483-502.	1.7	22
62	The role of wood anatomy in phylogeny reconstruction of Ericales. Cladistics, 2007, 23, 229-294.	3.3	40
63	The Micromorphology of Pit Membranes in Tracheary Elements of Ericales: New Records of Tori or Pseudo-tori?. Annals of Botany, 2006, 98, 943-951.	2.9	22
64	Palynological Characters and Their Phylogenetic Signal in Rubiaceae. Botanical Review, The, 2005, 71, 354-414.	3.9	55
65	Palynological Variation in Balsaminoid Ericales. II. Balsaminaceae, Tetrameristaceae, Pellicieraceae and General Conclusions. Annals of Botany, 2005, 96, 1061-1073.	2.9	26
66	Relationships within balsaminoid Ericales: a wood anatomical approach. American Journal of Botany, 2005, 92, 941-953.	1.7	34
67	Palynological Variation in Balsaminoid Ericales. I. Marcgraviaceae. Annals of Botany, 2005, 96, 1047-1060.	2.9	26
68	Comparative Wood Anatomy of the Primuloid Clade (Ericales s.l.). Systematic Botany, 2005, 30, 163-183.	0.5	20
69	Variation in xylem structure from tropics to tundra: Evidence from vestured pits. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8833-8837.	7.1	92
70	Intervascular pit membranes with a torus in the wood of Ulmus (Ulmaceae) and related genera. New Phytologist, 2004, 163, 51-59.	7.3	61
71	Comparative wood anatomy of Andromedeae s.s., Gaultherieae, Lyonieae and Oxydendreae (Vaccinioideae, Ericaceae s.l.). Botanical Journal of the Linnean Society, 2004, 144, 161-179.	1.6	10
72	The Distribution and Phylogeny of Aluminium Accumulating Plants in the Ericales. Plant Biology, 2004, 6, 498-505.	3.8	20

#	ARTICLE	IF	CITATIONS
73	Ecological trends in the wood anatomy of Vaccinioideae (Ericaceae s.l.). Flora: Morphology, Distribution, Functional Ecology of Plants, 2004, 199, 309-319.	1.2	49
74	Comparative Wood Anatomy of Epacrids (Styphelioideae, Ericaceae s.l.). Annals of Botany, 2003, 91, 835-856.	2.9	28
75	Contributions to the Wood Anatomy of the Rubioideae (Rubiaceae). Journal of Plant Research, 2001, 114, 269-289.	2.4	15
76	WOOD ANATOMY OF THE VANGUERIEAE (IXOROIDEAERUBIACEAE), WITH SPECIAL EMPHASIS ON SOME GEOFRUTICES. IAWA Journal, 2000, 21, 443-455.	2.7	9
77	Pollen morphological variation in Vanguerieae (Ixoroideae Rubiaceae). Grana, 2000, 39, 90-102.	0.8	10