

Peter J Franks

List of Publications by Year in descending order

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37
papers

5,654
citations

201575

27
h-index

330025

37
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all docs

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docs citations

37
times ranked

5736
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative critique of leaf-based paleo-CO ₂ proxies: Consequences for their reliability and applicability. <i>Geological Journal</i> , 2021, 56, 886-902.	0.6	11
2	Evolution of rapid blue-light response linked to explosive diversification of ferns in angiosperm forests. <i>New Phytologist</i> , 2021, 230, 1201-1213.	3.5	33
3	Sensitivity of a leaf gas-exchange model for estimating paleoatmospheric CO ₂ concentration. <i>Climate of the Past</i> , 2019, 15, 795-809.	1.3	16
4	No Evidence for a Large Atmospheric CO ₂ Spike Across the Cretaceous-Paleogene Boundary. <i>Geophysical Research Letters</i> , 2019, 46, 3462-3472.	1.5	21
5	Evolution of chloroplast retrograde signaling facilitates green plant adaptation to land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5015-5020.	3.3	138
6	Seasonal patterns in rainforest litterfall: Detecting endogenous and environmental influences from long-term sampling. <i>Austral Ecology</i> , 2018, 43, 225-235.	0.7	7
7	Multiple Proxy Estimates of Atmospheric CO ₂ From an Early Paleocene Rainforest. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 1427-1438.	1.3	20
8	Comparing optimal and empirical stomatal conductance models for application in Earth system models. <i>Global Change Biology</i> , 2018, 24, 5708-5723.	4.2	75
9	Comment on "Was atmospheric CO ₂ capped at 1000 ppm over the past 300 million years?" by McElwain J. C. et al. [<i>Palaeogeogr. Palaeoclimatol. Palaeoecol.</i> 441 (2016) 653-658]. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 472, 256-259.	1.0	9
10	Evolutionary Conservation of ABA Signaling for Stomatal Closure. <i>Plant Physiology</i> , 2017, 174, 732-747.	2.3	158
11	Stomatal Function across Temporal and Spatial Scales: Deep-Time Trends, Land-Atmosphere Coupling and Global Models. <i>Plant Physiology</i> , 2017, 174, 583-602.	2.3	119
12	Molecular Evolution of Grass Stomata. <i>Trends in Plant Science</i> , 2017, 22, 124-139.	4.3	202
13	No evidence of general CO ₂ insensitivity in ferns: one stomatal control mechanism for all land plants?. <i>New Phytologist</i> , 2016, 211, 819-827.	3.5	49
14	Optimal allocation of leaf epidermal area for gas exchange. <i>New Phytologist</i> , 2016, 210, 1219-1228.	3.5	139
15	Increasing leaf hydraulic conductance with transpiration rate minimizes the water potential drawdown from stem to leaf. <i>Journal of Experimental Botany</i> , 2015, 66, 1303-1315.	2.4	58
16	Increasing water-use efficiency directly through genetic manipulation of stomatal density. <i>New Phytologist</i> , 2015, 207, 188-195.	3.5	270
17	New constraints on atmospheric CO ₂ concentration for the Phanerozoic. <i>Geophysical Research Letters</i> , 2014, 41, 4685-4694.	1.5	189
18	Connecting stomatal development and physiology. <i>New Phytologist</i> , 2014, 201, 1079-1082.	3.5	17

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19	Passive and active stomatal control: either or both?. <i>New Phytologist</i> , 2013, 198, 325-327.	3.5	48
20	Smaller, faster stomata: scaling of stomatal size, rate of response, and stomatal conductance. <i>Journal of Experimental Botany</i> , 2013, 64, 495-505.	2.4	459
21	Sensitivity of plants to changing atmospheric CO_2 concentration: from the geological past to the next century. <i>New Phytologist</i> , 2013, 197, 1077-1094.	3.5	336
22	Genetic manipulation of stomatal density influences stomatal size, plant growth and tolerance to restricted water supply across a growth carbon dioxide gradient. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 547-555.	1.8	263
23	Megacycles of atmospheric carbon dioxide concentration correlate with fossil plant genome size. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 556-564.	1.8	39
24	Physiological framework for adaptation of stomata to CO_2 from glacial to future concentrations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 537-546.	1.8	108
25	Size is not everything for desiccation-sensitive seeds. <i>Journal of Ecology</i> , 2012, 100, 1131-1140.	1.9	27
26	Land Plants Acquired Active Stomatal Control Early in Their Evolutionary History. <i>Current Biology</i> , 2011, 21, 1030-1035.	1.8	162
27	Stomata: key players in the earth system, past and present. <i>Current Opinion in Plant Biology</i> , 2010, 13, 232-239.	3.5	265
28	Plasticity in maximum stomatal conductance constrained by negative correlation between stomatal size and density: an analysis using <i>Eucalyptus globulus</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 1737-1748.	2.8	283
29	Maximum leaf conductance driven by CO_2 effects on stomatal size and density over geologic time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10343-10347.	3.3	750
30	Plasticity in maximum stomatal conductance constrained by negative correlation between stomatal size and density: An analysis using <i>Eucalyptus globulus</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 1737-1748.	2.8	84
31	The Mechanical Diversity of Stomata and Its Significance in Gas-Exchange Control. <i>Plant Physiology</i> , 2007, 143, 78-87.	2.3	508
32	The global trend in plant twining direction. <i>Global Ecology and Biogeography</i> , 2007, 16, 795-800.	2.7	34
33	Anisohydric but isohydrodynamic: seasonally constant plant water potential gradient explained by a stomatal control mechanism incorporating variable plant hydraulic conductance. <i>Plant, Cell and Environment</i> , 2007, 30, 19-30.	2.8	266
34	Higher rates of leaf gas exchange are associated with higher leaf hydrodynamic pressure gradients. <i>Plant, Cell and Environment</i> , 2006, 29, 584-592.	2.8	93
35	Stomatal control and hydraulic conductance, with special reference to tall trees. <i>Tree Physiology</i> , 2004, 24, 865-878.	1.4	94
36	Use of the pressure probe in studies of stomatal function. <i>Journal of Experimental Botany</i> , 2003, 54, 1495-1504.	2.4	27

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37	The Effect of Exogenous Abscisic Acid on Stomatal Development, Stomatal Mechanics, and Leaf Gas Exchange in <i>Tradescantia virginiana</i> . <i>Plant Physiology</i> , 2001, 125, 935-942.	2.3	277