Caroline A E StrÃ¶mberg

List of Publications by Year
in descending order

27 papers	3,368 citations	430874 18 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	4325 citing authors

#	Article	IF	Citations
1	The Origins of C ₄ Grasslands: Integrating Evolutionary and Ecosystem Science. Science, 2010, 328, 587-591.	12.6	899
2	Dinosaur Coprolites and the Early Evolution of Grasses and Grazers. Science, 2005, 310, 1177-1180.	12.6	394
3	International Code for Phytolith Nomenclature (ICPN) 2.0. Annals of Botany, 2019, 124, 189-199.	2.9	320
4	Decoupled taxonomic radiation and ecological expansion of open-habitat grasses in the Cenozoic of North America. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11980-11984.	7.1	285
5	Biodiversity and Topographic Complexity: Modern and Geohistorical Perspectives. Trends in Ecology and Evolution, 2017, 32, 211-226.	8.7	175
6	Decoupling the spread of grasslands from the evolution of grazer-type herbivores in South America. Nature Communications, 2013, 4, 1478.	12.8	165
7	Linked canopy, climate, and faunal change in the Cenozoic of Patagonia. Science, 2015, 347, 258-261.	12.6	158
8	Molecular Dating, Evolutionary Rates, and the Age of the Grasses. Systematic Biology, 2014, 63, 153-165.	5.6	155
9	Evolution of hypsodonty in equids: testing a hypothesis of adaptation. Paleobiology, 2006, 32, 236-258.	2.0	146
10	The Neogene transition from C₃to C₄grasslands in North America: assemblage analysis of fossil phytoliths. Paleobiology, 2011, 37, 50-71.	2.0	110
11	Functions of phytoliths in vascular plants: an evolutionary perspective. Functional Ecology, 2016, 30, 1286-1297.	3.6	102
12	The Neogene transition from C₃to C₄grasslands in North America: stable carbon isotope ratios of fossil phytoliths. Paleobiology, 2011, 37, 23-49.	2.0	70
13	Phytolith carbon sequestration in global terrestrial biomes. Science of the Total Environment, 2017, 603-604, 502-509.	8.0	57
14	Comment on â€œThe extent of forest in dryland biomesâ€• Science, 2017, 358, .	12.6	57
15	Phytoliths in Paleoecology: Analytical Considerations, Current Use, and Future Directions. Vertebrate Paleobiology and Paleoanthropology, 2018, , 235-287.	0.5	42
16	Biogeographically distinct controls on <scp>C</scp>₃ and <scp>C</scp>₄ grass distributions: merging community and physiological ecology. Global Ecology and Biogeography, 2015, 24, 304-313.	5.8	33
17	Floral and environmental gradients on a Late Cretaceous landscape. Ecological Monographs, 2012, 82, 23-47.	5.4	32
18	On the Young Savannas in the Land of Ancient Forests. Fascinating Life Sciences, 2020, , 271-298.	0.9	32

#	Article	IF	Citations
19	Contribution of forests to the carbon sink via biologically-mediated silicate weathering: A case study of China. Science of the Total Environment, 2018, 615, 1-8.	8.0	31
20	Lineageâ€based functional types: characterising functional diversity to enhance the representation of ecological behaviour in Land Surface Models. New Phytologist, 2020, 228, 15-23.	7.3	20
21	3D shape analysis of grass silica short cell phytoliths: a new method for fossil classification and analysis of shape evolution. New Phytologist, 2020, 228, 376-392.	7.3	18
22	Climatic Controls on C4 Grassland Distributions During the Neogene: A Model-Data Comparison. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	15
23	High silicon concentrations in grasses are linked to environmental conditions and not associated with C₄ photosynthesis. Global Change Biology, 2020, 26, 7128-7143.	9.5	15
24	Patagonian Aridification at the Onset of the Midâ€Miocene Climatic Optimum. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003956.	2.9	14
25	Evolution of phytolith deposition in modern bryophytes, and implications for the fossil record and influence on silica cycle in early land plant evolution. New Phytologist, 2019, 221, 2273-2285.	7.3	13
26	Light Environment and Epidermal Cell Morphology in Grasses. International Journal of Plant Sciences, 2015, 176, 832-847.	1.3	10
27	Whipping phytoliths into shape (and size). A Commentary on: â€˜Inter- and intraspecific variation in grass phytolith shape and size: a geometric morphometrics perspectiveâ€™. Annals of Botany, 2021, 127, iii-iv.	2.9	0