Kevin E Mueller

List of Publications by Year
in descending order

43 papers	4,676 citations	172457 29 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	6591 citing authors

#	Article	IF	Citations
1	Water availability dictates how plant traits predict demographic rates. Ecology, 2022, 103, .	3.2	5
2	Plant traits related to precipitation sensitivity of species and communities in semiarid shortgrass prairie. New Phytologist, 2021, 229, 2007-2019.	7.3	38
3	Plant- or microbial-derived? A review on the molecular composition of stabilized soil organic matter. Soil Biology and Biochemistry, 2021, 156, 108189.	8.8	363
4	On geologic timescales, plant carbon isotope fractionation responds to precipitation similarly to modern plants and has a small negative correlation with pCO2. Geochimica Et Cosmochimica Acta, 2020, 270, 264-281.	3.9	20
5	Traits link drought resistance with herbivore defence and plant economics in semiâ€arid grasslands: The central roles of phenology and leaf dry matter content. Journal of Ecology, 2020, 108, 2336-2351.	4.0	49
6	Shifts in plant functional composition following longâ€term drought in grasslands. Journal of Ecology, 2019, 107, 2133-2148.	4.0	85
7	Soil organic carbon stability in forests: Distinct effects of tree species identity and traits. Global Change Biology, 2019, 25, 1529-1546.	9.5	104
8	Extending the osmometer method for assessing drought tolerance in herbaceous species. Oecologia, 2019, 189, 353-363.	2.0	40
9	Warming and Elevated CO2 Interact to Alter Seasonality and Reduce Variability of Soil Water in a Semiarid Grassland. Ecosystems, 2018, 21, 1533-1544.	3.4	11
10	Elevated <scp>CO</scp>₂ and water addition enhance nitrogen turnover in grassland plants with implications for temporal stability. Ecology Letters, 2018, 21, 674-682.	6.4	20
11	Root responses to elevated <scp>CO</scp>₂, warming and irrigation in a semiâ€arid grassland: Integrating biomass, length and life span in a 5â€year field experiment. Journal of Ecology, 2018, 106, 2176-2189.	4.0	39
12	A tale of two studies: Detection and attribution of the impacts of invasive plants in observational surveys. Journal of Applied Ecology, 2018, 55, 1780-1789.	4.0	6
13	Plant litter quality affects the accumulation rate, composition, and stability of mineral-associated soil organic matter. Soil Biology and Biochemistry, 2018, 125, 115-124.	8.8	123
14	Aggregation controls the stability of lignin and lipids in clay-sized particulate and mineral associated organic matter. Biogeochemistry, 2017, 132, 307-324.	3.5	129
15	Performance of base hydrolysis methods in extracting bound lipids from plant material, soils, and sediments. Organic Geochemistry, 2017, 113, 97-104.	1.8	4
16	Soilâ€mediated effects of global change on plant communities depend on plant growth form. Ecosphere, 2017, 8, e01996.	2.2	5
17	Impacts of warming and elevated <scp>CO</scp>₂ on a semiâ€arid grassland are nonâ€additive, shift with precipitation, and reverse over time. Ecology Letters, 2016, 19, 956-966.	6.4	127
18	Thresholds and gradients in a semiâ€arid grassland: longâ€term grazing treatments induce slow, continuous and reversible vegetation change. Journal of Applied Ecology, 2016, 53, 1013-1022.	4.0	65

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19	Elevated CO2 and warming shift the functional composition of soil nematode communities in a semiarid grassland. Soil Biology and Biochemistry, 2016, 103, 46-51.	8.8	47
20	Grazing intensity differentially regulates ANPP response to precipitation in North American semiarid grasslands. Ecological Applications, 2016, 26, 1370-1380.	3.8	81
21	Light, earthworms, and soil resources as predictors of diversity of 10 soil invertebrate groups across monocultures of 14 tree species. Soil Biology and Biochemistry, 2016, 92, 184-198.	8.8	91
22	Integrating plant litter quality, soil organic matter stabilization, and the carbon saturation concept. Global Change Biology, 2015, 21, 3200-3209.	9.5	456
23	Effects of litter traits, soil biota, and soil chemistry on soil carbon stocks at a common garden with 14 tree species. Biogeochemistry, 2015, 123, 313-327.	3.5	77
24	Paleogene plants fractionated carbon isotopes similar to modern plants. Earth and Planetary Science Letters, 2015, 429, 33-44.	4.4	55
25	Root depth distribution and the diversityâ€“productivity relationship in a longâ€term grassland experiment. Ecology, 2013, 94, 787-793.	3.2	233
26	What controls the concentration of various aliphatic lipids in soil?. Soil Biology and Biochemistry, 2013, 63, 14-17.	8.8	22
27	Effects of plant diversity, <scp>N</scp> fertilization, and elevated carbon dioxide on grassland soil <scp>N</scp> cycling in a longâ€term experiment. Global Change Biology, 2013, 19, 1249-1261.	9.5	94
28	Do evergreen and deciduous trees have different effects on net N mineralization in soil?. Ecology, 2012, 93, 1463-1472.	3.2	45
29	Tree species effects on coupled cycles of carbon, nitrogen, and acidity in mineral soils at a common garden experiment. Biogeochemistry, 2012, 111, 601-614.	3.5	184
30	Impacts of Biodiversity Loss Escalate Through Time as Redundancy Fades. Science, 2012, 336, 589-592.	12.6	672
31	Differentiating temperate tree species and their organs using lipid biomarkers in leaves, roots and soil. Organic Geochemistry, 2012, 52, 130-141.	1.8	53
32	Evolutionary Patterns and Biogeochemical Significance of Angiosperm Root Traits. International Journal of Plant Sciences, 2012, 173, 584-595.	1.3	140
33	Clarifying the influence of water availability and plant types on carbon isotope discrimination by C3 plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E59-60; author reply E61.	7.1	17
34	Appraising the roles of nutrient availability, global change, and functional traits during the angiosperm rise to dominance. Ecology Letters, 2010, 13, E1-6.	6.4	23
35	Global patterns in leaf ¹³ C discrimination and implications for studies of past and future climate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5738-5743.	7.1	690
36	Increase Grants, Too. Science, 2009, 325, 1498-1498.	12.6	0

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37	Accessibility of polybrominated diphenyl ether congeners in aging soil. Journal of Environmental Monitoring, 2009, 11, 1658.	2.1	11
38	Polybrominated diphenyl ethers: Causes for concern and knowledge gaps regarding environmental distribution, fate and toxicity. Science of the Total Environment, 2008, 400, 425-436.	8.0	191
39	Effects of Tree Root-Derived Substrates and Inorganic Nutrients on Pyrene Mineralization in Rhizosphere and Bulk Soil. Journal of Environmental Quality, 2007, 36, 120-127.	2.0	19
40	Rapid breakdown of brominated flame retardants by soil microorganisms. Journal of Analytical Atomic Spectrometry, 2006, 21, 1232.	3.0	34
41	Fate of Pentabrominated Diphenyl Ethers in Soil:Â Abiotic Sorption, Plant Uptake, and the Impact of Interspecific Plant Interactions. Environmental Science & Technology, 2006, 40, 6662-6667.	10.0	128
42	PAH dissipation in spiked soil: Impacts of bioavailability, microbial activity, and trees. Chemosphere, 2006, 64, 1006-1014.	8.2	78
43	Trading water for carbon in the future: effects of elevated <scp> CO ₂ </scp> and warming on leaf hydraulic traits in a semiarid grassland. Global Change Biology, 0, , .	9.5	2