

Marco Keiluweit

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

8,415
citations

172457

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243625

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all docs

54
docs citations

54
times ranked

9579
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond bulk: Density fractions explain heterogeneity in global soil carbon abundance and persistence. <i>Global Change Biology</i> , 2022, 28, 1178-1196.	9.5	67
2	Sulfur Biogeochemical Cycling and Redox Dynamics in a Shale-Dominated Mountainous Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	5
3	Long-Term Warming Decreases Redox Capacity of Soil Organic Matter. <i>Environmental Science and Technology Letters</i> , 2021, 8, 92-97.	8.7	15
4	Simple Plant and Microbial Exudates Destabilize Mineral-Associated Organic Matter via Multiple Pathways. <i>Environmental Science & Technology</i> , 2021, 55, 3389-3398.	10.0	63
5	Development of energetic and enzymatic limitations on microbial carbon cycling in soils. <i>Biogeochemistry</i> , 2021, 153, 191-213.	3.5	14
6	A holistic framework integrating plant-microbe-mineral regulation of soil bioavailable nitrogen. <i>Biogeochemistry</i> , 2021, 154, 211-229.	3.5	63
7	Redox Properties of Pyrogenic Dissolved Organic Matter (pyDOM) from Biomass-Derived Chars. <i>Environmental Science & Technology</i> , 2021, 55, 11434-11444.	10.0	21
8	Priming mechanisms providing plants and microbes access to mineral-associated organic matter. <i>Soil Biology and Biochemistry</i> , 2021, 158, 108265.	8.8	71
9	Proteins unbound – how ectomycorrhizal fungi can tap a vast reservoir of mineral-associated organic nitrogen. <i>New Phytologist</i> , 2020, 228, 406-408.	7.3	4
10	Enzymes, Manganese, or Iron? Drivers of Oxidative Organic Matter Decomposition in Soils. <i>Environmental Science & Technology</i> , 2020, 54, 14114-14123.	10.0	63
11	Effect of Cover Crop on Carbon Distribution in Size and Density Separated Soil Aggregates. <i>Soil Systems</i> , 2020, 4, 6.	2.6	8
12	Shale as a Source of Organic Carbon in Floodplain Sediments of a Mountainous Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005419.	3.0	14
13	An open-source database for the synthesis of soil radiocarbon data: International Soil Radiocarbon Database (ISRaD) version 1.0. <i>Earth System Science Data</i> , 2020, 12, 61-76.	9.9	48
14	Shifting mineral and redox controls on carbon cycling in seasonally flooded mineral soils. <i>Biogeosciences</i> , 2019, 16, 2573-2589.	3.3	30
15	Root-driven weathering impacts on mineral-organic associations in deep soils over pedogenic time scales. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 263, 68-84.	3.9	29
16	Soil exchange rates of COS and CO ₁₈ O differ with the diversity of microbial communities and their carbonic anhydrase enzymes. <i>ISME Journal</i> , 2019, 13, 290-300.	9.8	20
17	Mobilization of ferrihydrite-associated organic carbon during Fe reduction: Adsorption versus coprecipitation. <i>Chemical Geology</i> , 2019, 503, 61-68.	3.3	66
18	Effect of simulated diagenesis on the compositions, chemical stability and sorption properties of natural and engineered organic matter with different mineral contents. <i>Organic Geochemistry</i> , 2018, 120, 1-11.	1.8	7

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19	Beyond clay: towards an improved set of variables for predicting soil organic matter content. <i>Biogeochemistry</i> , 2018, 137, 297-306.	3.5	423
20	Anoxic microsites in upland soils dominantly controlled by clay content. <i>Soil Biology and Biochemistry</i> , 2018, 118, 42-50.	8.8	109
21	Quantifying biogeochemical heterogeneity in soil systems. <i>Geoderma</i> , 2018, 324, 89-97.	5.1	23
22	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. <i>Global Change Biology</i> , 2018, 24, e705-e718.	9.5	92
23	Manganese-Driven Carbon Oxidation at Oxidic-Anoxic Interfaces. <i>Environmental Science & Technology</i> , 2018, 52, 12349-12357.	10.0	54
24	The Ability of Soil Pore Network Metrics to Predict Redox Dynamics is Scale Dependent. <i>Soil Systems</i> , 2018, 2, 66.	2.6	16
25	Improving understanding of soil organic matter dynamics by triangulating theories, measurements, and models. <i>Biogeochemistry</i> , 2018, 140, 1-13.	3.5	83
26	Minerals in the rhizosphere: overlooked mediators of soil nitrogen availability to plants and microbes. <i>Biogeochemistry</i> , 2018, 139, 103-122.	3.5	203
27	Anaerobic microsites have an unaccounted role in soil carbon stabilization. <i>Nature Communications</i> , 2017, 8, 1771.	12.8	276
28	Airborne soil organic particles generated by precipitation. <i>Nature Geoscience</i> , 2016, 9, 433-437.	12.9	71
29	Are oxygen limitations under recognized regulators of organic carbon turnover in upland soils?. <i>Biogeochemistry</i> , 2016, 127, 157-171.	3.5	236
30	Mineral-Organic Associations: Formation, Properties, and Relevance in Soil Environments. <i>Advances in Agronomy</i> , 2015, 130, 1-140.	5.2	801
31	Mineral protection of soil carbon counteracted by root exudates. <i>Nature Climate Change</i> , 2015, 5, 588-595.	18.8	694
32	Long-term litter decomposition controlled by manganese redox cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5253-60.	7.1	168
33	Aromaticity and degree of aromatic condensation of char. <i>Organic Geochemistry</i> , 2015, 78, 135-143.	1.8	207
34	Redox Properties of Plant Biomass-Derived Black Carbon (Biochar). <i>Environmental Science & Technology</i> , 2014, 48, 5601-5611.	10.0	791
35	3D spectral imaging with synchrotron Fourier transform infrared spectro-microtomography. <i>Nature Methods</i> , 2013, 10, 861-864.	19.0	91
36	Sorptive fractionation of organic matter and formation of organo-hydroxy-aluminum complexes during litter biodegradation in the presence of gibbsite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 667-683.	3.9	54

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37	Synchrotron-Based Mass Spectrometry to Investigate the Molecular Properties of Mineral-Organic Associations. <i>Analytical Chemistry</i> , 2013, 85, 6100-6106.	6.5	16
38	Polar and aliphatic domains regulate sorption of phthalic acid esters (PAEs) to biochars. <i>Bioresource Technology</i> , 2012, 118, 120-127.	9.6	163
39	Nano-scale investigation of the association of microbial nitrogen residues with iron (hydr)oxides in a forest soil O-horizon. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 95, 213-226.	3.9	107
40	Solvent-Extractable Polycyclic Aromatic Hydrocarbons in Biochar: Influence of Pyrolysis Temperature and Feedstock. <i>Environmental Science & Technology</i> , 2012, 46, 9333-9341.	10.0	238
41	Sorption of fluorinated herbicides to plant biomass-derived biochars as a function of molecular structure. <i>Bioresource Technology</i> , 2011, 102, 9897-9903.	9.6	148
42	Dynamic Molecular Structure of Plant Biomass-Derived Black Carbon (Biochar). <i>Environmental Science & Technology</i> , 2010, 44, 1247-1253.	10.0	2,267
43	Molecular-Level Interactions in Soils and Sediments: The Role of Aromatic π -Systems. <i>Environmental Science & Technology</i> , 2009, 43, 3421-3429.	10.0	467