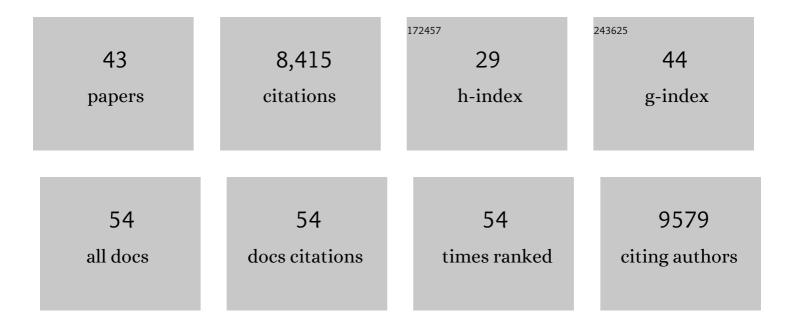
Marco Keiluweit

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5775335/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Dynamic Molecular Structure of Plant Biomass-Derived Black Carbon (Biochar). Environmental Science & Technology, 2010, 44, 1247-1253.	10.0	2,267
2	Mineral–Organic Associations: Formation, Properties, and Relevance in Soil Environments. Advances in Agronomy, 2015, 130, 1-140.	5.2	801
3	Redox Properties of Plant Biomass-Derived Black Carbon (Biochar). Environmental Science & Technology, 2014, 48, 5601-5611.	10.0	791
4	Mineral protection of soil carbon counteracted by root exudates. Nature Climate Change, 2015, 5, 588-595.	18.8	694
5	Molecular-Level Interactions in Soils and Sediments: The Role of Aromatic π-Systems. Environmental Science & Technology, 2009, 43, 3421-3429.	10.0	467
6	Beyond clay: towards an improved set of variables for predicting soil organic matter content. Biogeochemistry, 2018, 137, 297-306.	3.5	423
7	Anaerobic microsites have an unaccounted role in soil carbon stabilization. Nature Communications, 2017, 8, 1771.	12.8	276
8	Solvent-Extractable Polycyclic Aromatic Hydrocarbons in Biochar: Influence of Pyrolysis Temperature and Feedstock. Environmental Science & amp; Technology, 2012, 46, 9333-9341.	10.0	238
9	Are oxygen limitations under recognized regulators of organic carbon turnover in upland soils?. Biogeochemistry, 2016, 127, 157-171.	3.5	236
10	Aromaticity and degree of aromatic condensation of char. Organic Geochemistry, 2015, 78, 135-143.	1.8	207
11	Minerals in the rhizosphere: overlooked mediators of soil nitrogen availability to plants and microbes. Biogeochemistry, 2018, 139, 103-122.	3.5	203
12	Long-term litter decomposition controlled by manganese redox cycling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5253-60.	7.1	168
13	Polar and aliphatic domains regulate sorption of phthalic acid esters (PAEs) to biochars. Bioresource Technology, 2012, 118, 120-127.	9.6	163
14	Sorption of fluorinated herbicides to plant biomass-derived biochars as a function of molecular structure. Bioresource Technology, 2011, 102, 9897-9903.	9.6	148
15	Anoxic microsites in upland soils dominantly controlled by clay content. Soil Biology and Biochemistry, 2018, 118, 42-50.	8.8	109
16	Nano-scale investigation of the association of microbial nitrogen residues with iron (hydr)oxides in a forest soil O-horizon. Geochimica Et Cosmochimica Acta, 2012, 95, 213-226.	3.9	107
17	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. Global Change Biology, 2018, 24, e705-e718.	9.5	92
18	3D spectral imaging with synchrotron Fourier transform infrared spectro-microtomography. Nature Methods, 2013, 10, 861-864.	19.0	91

Marco Keiluweit

#	Article	IF	CITATIONS
19	Improving understanding of soil organic matter dynamics by triangulating theories, measurements, and models. Biogeochemistry, 2018, 140, 1-13.	3.5	83
20	Airborne soil organic particles generated byÂprecipitation. Nature Geoscience, 2016, 9, 433-437.	12.9	71
21	Priming mechanisms providing plants and microbes access to mineral-associated organic matter. Soil Biology and Biochemistry, 2021, 158, 108265.	8.8	71
22	Beyond bulk: Density fractions explain heterogeneity in global soil carbon abundance and persistence. Global Change Biology, 2022, 28, 1178-1196.	9.5	67
23	Mobilization of ferrihydrite-associated organic carbon during Fe reduction: Adsorption versus coprecipitation. Chemical Geology, 2019, 503, 61-68.	3.3	66
24	Enzymes, Manganese, or Iron? Drivers of Oxidative Organic Matter Decomposition in Soils. Environmental Science & Technology, 2020, 54, 14114-14123.	10.0	63
25	Simple Plant and Microbial Exudates Destabilize Mineral-Associated Organic Matter via Multiple Pathways. Environmental Science & Technology, 2021, 55, 3389-3398.	10.0	63
26	A holistic framework integrating plant-microbe-mineral regulation of soil bioavailable nitrogen. Biogeochemistry, 2021, 154, 211-229.	3.5	63
27	Sorptive fractionation of organic matter and formation of organo-hydroxy-aluminum complexes during litter biodegradation in the presence of gibbsite. Geochimica Et Cosmochimica Acta, 2013, 121, 667-683.	3.9	54
28	Manganese-Driven Carbon Oxidation at Oxic–Anoxic Interfaces. Environmental Science & Technology, 2018, 52, 12349-12357.	10.0	54
29	An open-source database for the synthesis of soil radiocarbon data: International Soil Radiocarbon Database (ISRaD) version 1.0. Earth System Science Data, 2020, 12, 61-76.	9.9	48
30	Shifting mineral and redox controls on carbon cycling in seasonally flooded mineral soils. Biogeosciences, 2019, 16, 2573-2589.	3.3	30
31	Root-driven weathering impacts on mineral-organic associations in deep soils over pedogenic time scales. Geochimica Et Cosmochimica Acta, 2019, 263, 68-84.	3.9	29
32	Quantifying biogeochemical heterogeneity in soil systems. Geoderma, 2018, 324, 89-97.	5.1	23
33	Redox Properties of Pyrogenic Dissolved Organic Matter (pyDOM) from Biomass-Derived Chars. Environmental Science & Technology, 2021, 55, 11434-11444.	10.0	21
34	Soil exchange rates of COS and CO18O differ with the diversity of microbial communities and their carbonic anhydrase enzymes. ISME Journal, 2019, 13, 290-300.	9.8	20
35	Synchrotron-Based Mass Spectrometry to Investigate the Molecular Properties of Mineral–Organic Associations. Analytical Chemistry, 2013, 85, 6100-6106.	6.5	16
36	The Ability of Soil Pore Network Metrics to Predict Redox Dynamics is Scale Dependent. Soil Systems, 2018, 2, 66.	2.6	16

MARCO KEILUWEIT

#	Article	IF	CITATIONS
37	Long-Term Warming Decreases Redox Capacity of Soil Organic Matter. Environmental Science and Technology Letters, 2021, 8, 92-97.	8.7	15
38	Shale as a Source of Organic Carbon in Floodplain Sediments of a Mountainous Watershed. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005419.	3.0	14
39	Development of energetic and enzymatic limitations on microbial carbon cycling in soils. Biogeochemistry, 2021, 153, 191-213.	3.5	14
40	Effect of Cover Crop on Carbon Distribution in Size and Density Separated Soil Aggregates. Soil Systems, 2020, 4, 6.	2.6	8
41	Effect of simulated diagenesis on the compositions, chemical stability and sorption properties of natural and engineered organic matter with different mineral contents. Organic Geochemistry, 2018, 120, 1-11.	1.8	7
42	Sulfur Biogeochemical Cycling and Redox Dynamics in a Shaleâ€Đominated Mountainous Watershed. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	5
43	Proteins unbound – how ectomycorrhizal fungi can tap a vast reservoir of mineralâ€associated organic nitrogen. New Phytologist, 2020, 228, 406-408.	7.3	4