Katrin Premke

List of Publications by Year in descending order

40 papers	1,835 citations	304602 22 h-index	276775 41 g-index
41 all docs	41 docs citations	41 times ranked	2944 citing authors

#	Article	IF	Citations
1	Temperature-controlled organic carbon mineralization in lake sediments. Nature, 2010, 466, 478-481.	13.7	460
2	Fungalâ€“bacterial dynamics and their contribution to terrigenous carbon turnover in relation to organic matter quality. ISME Journal, 2017, 11, 415-425.	4.4	118
3	Microbial diversity and community respiration in freshwater sediments influenced by artificial light at night. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140130.	1.8	107
4	Technical note: drifting versus anchored flux chambers for measuring greenhouse gas emissions from running waters. Biogeosciences, 2015, 12, 7013-7024.	1.3	97
5	Constrained microbial processing of allochthonous organic carbon in boreal lake sediments. Limnology and Oceanography, 2012, 57, 163-175.	1.6	94
6	Carbon dynamics and their link to dissolved organic matter quality across contrasting stream ecosystems. Science of the Total Environment, 2016, 553, 574-586.	3.9	75
7	Enhanced bacterial decomposition with increasing addition of autochthonous to allochthonous carbon without any effect on bacterial community composition. Biogeosciences, 2014, 11, 1479-1489.	1.3	61
8	Forest understory plant and soil microbial response to an experimentally induced drought and heatâ€pulse event: the importance of maintaining the continuum. Global Change Biology, 2016, 22, 2861-2874.	4.2	51
9	Carbon and nutrient cycling in kettle hole sediments depending on hydrological dynamics: a review. Hydrobiologia, 2016, 775, 1-20.	1.0	50
10	Ecosystemâ€level studies of terrestrial carbon reveal contrasting bacterial metabolism in different aquatic habitats. Ecology, 2013, 94, 2754-2766.	1.5	48
11	Microbial biomass and community composition in boreal lake sediments. Limnology and Oceanography, 2011, 56, 725-733.	1.6	44
12	Aggregations of Arctic deep-sea scavengers at large food falls: temporal distribution, consumption rates and population structure. Marine Ecology - Progress Series, 2006, 325, 121-135.	0.9	44
13	Terrestrial subsidies to lake food webs: an experimental approach. Oecologia, 2012, 168, 807-818.	0.9	42
14	Stable isotope analysis of benthic fauna and their food sources in boreal lakes. Journal of the North American Benthological Society, 2010, 29, 1339-1348.	3.0	41
15	Evidence for long-range chemoreceptive tracking of food odour in deep-sea scavengers by scanning sonar data. Journal of Experimental Marine Biology and Ecology, 2003, 285-286, 283-294.	0.7	40
16	Water level changes affect carbon turnover and microbial community composition in lake sediments. FEMS Microbiology Ecology, 2016, 92, fiw035.	1.3	39
17	Deconstructing Methane Emissions from a Small Northern European River: Hydrodynamics and Temperature as Key Drivers. Environmental Science & Technology, 2016, 50, 11680-11687.	4.6	37
18	What a lucky shot! Photographic evidence for a medium-sized natural food-fall at the deep seafloor. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2003, 26, 623-628.	0.7	32

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19	The importance of landscape diversity for carbon fluxes at the landscape level: smallâ€scale heterogeneity matters. Wiley Interdisciplinary Reviews: Water, 2016, 3, 601-617.	2.8	32
20	Effect of Sediment Gas Voids and Ebullition on Benthic Solute Exchange. Environmental Science & Technology, 2015, 49, 10413-10420.	4.6	31
21	Primary production in nutrient-rich kettle holes and consequences for nutrient and carbon cycling. Hydrobiologia, 2018, 806, 77-93.	1.0	30
22	Land-use and hydroperiod affect kettle hole sediment carbon and nitrogen biogeochemistry. Science of the Total Environment, 2017, 574, 46-56.	3.9	28
23	Organic matter distribution and retention along transects from hilltop to kettle hole within an agricultural landscape. Biogeochemistry, 2017, 136, 47-70.	1.7	24
24	Integrating Aquatic and Terrestrial Perspectives to Improve Insights Into Organic Matter Cycling at the Landscape Scale. Frontiers in Earth Science, 2019, 7, .	0.8	22
25	Dry-wet cycles of kettle hole sediments leave a microbial and biogeochemical legacy. Science of the Total Environment, 2018, 627, 985-996.	3.9	20
26	Organic matter quality structures benthic fatty acid patterns and the abundance of fungi and bacteria in temperate lakes. Science of the Total Environment, 2018, 610-611, 469-481.	3.9	20
27	Visualizing landâ€use and management complexity within biogeochemical cycles of an agricultural landscape. Ecosphere, 2016, 7, e01282.	1.0	17
28	Shading and sediment structure effects on stream metabolism resistance and resilience to infrequent droughts. Science of the Total Environment, 2018, 621, 1233-1242.	3.9	17
29	Ecological studies on the decomposition rate of fish carcasses by benthic organisms in the littoral zone of Lake Constance, Germany. Annales De Limnologie, 2010, 46, 157-168.	0.6	16
30	Periodic sediment shift in migrating ripples influences benthic microbial activity. Water Resources Research, 2017, 53, 4741-4755.	1.7	15
31	Biogeochemistry of natural ponds in agricultural landscape: Lessons learned from modeling a kettle hole in Northeast Germany. Science of the Total Environment, 2018, 634, 1615-1630.	3.9	15
32	Potentials and limitations of quantification of fungi in freshwater environments based on PLFA profiles. Fungal Ecology, 2019, 41, 256-268.	0.7	14
33	Bacterial processes and biogeochemical changes in the water body of kettle holes - mainly driven by autochthonous organic matter?. Aquatic Sciences, 2017, 79, 675-687.	0.6	11
34	Environmental Control on Microbial Turnover of Leaf Carbon in Streams â€“ Ecological Function of Phototrophic-Heterotrophic Interactions. Frontiers in Microbiology, 2018, 9, 1044.	1.5	9
35	Large-scale sampling of the freshwater microbiome suggests pollution-driven ecosystem changes. Environmental Pollution, 2022, 308, 119627.	3.7	7
36	Zooplankton carcasses stimulate microbial turnover of allochthonous particulate organic matter. ISME Journal, 2021, 15, 1735-1750.	4.4	6

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37	Divergent roles of iron and aluminum in sediment organic matter association at the terrestrialâ€“aquatic interface. Biogeochemistry, 2022, 157, 355-378.	1.7	6
38	Desiccation of sediments affects assimilate transport within aquatic plants and carbon transfer to microorganisms. Plant Biology, 2016, 18, 947-961.	1.8	2
39	Anthropogenic Impact on Tropical Perennial River in South India: Snapshot of Carbon Dynamics and Bacterial Community Composition. Water (Switzerland), 2020, 12, 1354.	1.2	1
40	Kettle holes reflect the biogeochemical characteristics of their catchment area and the intensity of the element-specific input. Journal of Soils and Sediments, 2022, 22, 994.	1.5	1