

Katey Walter Anthony

List of Publications by Year in descending order

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43
papers

3,936
citations

172207

29
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253896

43
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44
docs citations

44
times ranked

4147
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon release through abrupt permafrost thaw. <i>Nature Geoscience</i> , 2020, 13, 138-143.	5.4	434
2	Climate-sensitive northern lakes and ponds are critical components of methane release. <i>Nature Geoscience</i> , 2016, 9, 99-105.	5.4	357
3	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , 2015, 12, 7129-7167.	1.3	354
4	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013, 119, 359-374.	1.7	257
5	Modern thermokarst lake dynamics in the continuous permafrost zone, northern Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	250
6	A shift of thermokarst lakes from carbon sources to sinks during the Holocene epoch. <i>Nature</i> , 2014, 511, 452-456.	13.7	246
7	Permafrost collapse is accelerating carbon release. <i>Nature</i> , 2019, 569, 32-34.	13.7	237
8	21st-century modeled permafrost carbon emissions accelerated by abrupt thaw beneath lakes. <i>Nature Communications</i> , 2018, 9, 3262.	5.8	187
9	Methane emissions proportional to permafrost carbon thawed in Arctic lakes since the 1950s. <i>Nature Geoscience</i> , 2016, 9, 679-682.	5.4	150
10	Methane and carbon dioxide emissions from 40 lakes along a north-south latitudinal transect in Alaska. <i>Biogeosciences</i> , 2015, 12, 3197-3223.	1.3	142
11	Vulnerability and Feedbacks of Permafrost to Climate Change. <i>Eos</i> , 2011, 92, 73-74.	0.1	121
12	Anaerobic oxidation of methane by aerobic methanotrophs in sub-Arctic lake sediments. <i>Science of the Total Environment</i> , 2017, 607-608, 23-31.	3.9	113
13	Peat accumulation in drained thermokarst lake basins in continuous, ice-rich permafrost, northern Seward Peninsula, Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	84
14	Ubiquitous and significant anaerobic oxidation of methane in freshwater lake sediments. <i>Water Research</i> , 2018, 144, 332-340.	5.3	84
15	Simulating the decadal-to millennial-scale dynamics of morphology and sequestered carbon mobilization of two thermokarst lakes in NW Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	82
16	Modeling methane emissions from arctic lakes: Model development and site-level study. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 459-483.	1.3	71
17	Using the deuterium isotope composition of permafrost meltwater to constrain thermokarst lake contributions to atmospheric CH ₄ during the last deglaciation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	64
18	Modeling the impediment of methane ebullition bubbles by seasonal lake ice. <i>Biogeosciences</i> , 2014, 11, 6791-6811.	1.3	63

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19	In Situ Measurement of Dissolved Methane and Carbon Dioxide in Freshwater Ecosystems by Off-Axis Integrated Cavity Output Spectroscopy. <i>Environmental Science & Technology</i> , 2014, 48, 11421-11428.	4.6	62
20	Circum-Arctic Map of the Yedoma Permafrost Domain. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	49
21	Remote sensing northern lake methane ebullition. <i>Nature Climate Change</i> , 2020, 10, 511-517.	8.1	45
22	BAWLD-CH ₄ : a comprehensive dataset of methane fluxes from boreal and arctic ecosystems. <i>Earth System Science Data</i> , 2021, 13, 5151-5189.	3.7	44
23	Thermokarst lake methanogenesis along a complete talik profile. <i>Biogeosciences</i> , 2015, 12, 4317-4331.	1.3	43
24	Facies analysis of yedoma thermokarst lakes on the northern Seward Peninsula, Alaska. <i>Sedimentary Geology</i> , 2016, 340, 25-37.	1.0	38
25	Modeling CO ₂ emissions from Arctic lakes: Model development and site-level study. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2190-2213.	1.3	38
26	Assessing the Potential for Mobilization of Old Soil Carbon After Permafrost Thaw: A Synthesis of ¹⁴ C Measurements From the Northern Permafrost Region. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006672.	1.9	36
27	Characterizing Post-Drainage Succession in Thermokarst Lake Basins on the Seward Peninsula, Alaska with TerraSAR-X Backscatter and Landsat-based NDVI Data. <i>Remote Sensing</i> , 2012, 4, 3741-3765.	1.8	33
28	First evidence for cold-adapted anaerobic oxidation of methane in deep sediments of thermokarst lakes. <i>Environmental Research Communications</i> , 2019, 1, 021002.	0.9	33
29	Synthetic aperture radar (SAR) backscatter response from methane ebullition bubbles trapped by thermokarst lake ice. <i>Canadian Journal of Remote Sensing</i> , 2013, 38, 667-682.	1.1	31
30	Seasonal Sources of Whole-Lake CH ₄ and CO ₂ Emissions From Interior Alaskan Thermokarst Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1209-1229.	1.3	23
31	Methane: A Menace Surfaces. <i>Scientific American</i> , 2009, 301, 68-75.	1.0	22
32	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. <i>Environmental Research Letters</i> , 2021, 16, 035010.	2.2	21
33	Characterizing Methane Emission Hotspots From Thawing Permafrost. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006922.	1.9	19
34	Century-scale time since permafrost thaw affects temperature sensitivity of net methane production in thermokarst-lake and talik sediments. <i>Science of the Total Environment</i> , 2019, 691, 124-134.	3.9	18
35	Nocturnal escape route for marsh gas. <i>Nature</i> , 2016, 535, 363-365.	13.7	16
36	The role of wetland expansion and successional processes in methane emissions from northern wetlands during the Holocene. <i>Quaternary Science Reviews</i> , 2021, 257, 106864.	1.4	15

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37	First pan-Arctic assessment of dissolved organic carbon in lakes of the permafrost region. <i>Biogeosciences</i> , 2021, 18, 3917-3936.	1.3	12
38	Composition and photo-reactivity of organic matter from permafrost soils and surface waters in interior Alaska. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1525-1539.	1.7	9
39	Utilizing pyrolysis GC-MS to characterize organic matter quality in relation to methane production in a thermokarst lake sediment core. <i>Organic Geochemistry</i> , 2017, 103, 43-50.	0.9	8
40	An Object-Based Classification Method to Detect Methane Ebullition Bubbles in Early Winter Lake Ice. <i>Remote Sensing</i> , 2019, 11, 822.	1.8	8
41	Influence of permafrost thaw on an extreme geologic methane seep. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 484-502.	1.5	8
42	Methane production controls in a young thermokarst lake formed by abrupt permafrost thaw. <i>Global Change Biology</i> , 2022, 28, 3206-3221.	4.2	7
43	Technical note: Mobile open dynamic chamber measurement of methane macroseeps in lakes. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 6047-6058.	1.9	2