

Rosalie K Chu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,498
citations

516710

16
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

2192
citing authors

#	ARTICLE	IF	CITATIONS
1	Groundwater-surface water mixing shifts ecological assembly processes and stimulates organic carbon turnover. <i>Nature Communications</i> , 2016, 7, 11237.	12.8	290
2	Advanced Solvent Based Methods for Molecular Characterization of Soil Organic Matter by High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 5206-5215.	6.5	167
3	MPLEX: a Robust and Universal Protocol for Single-Sample Integrative Proteomic, Metabolomic, and Lipidomic Analyses. <i>MSystems</i> , 2016, 1, .	3.8	166
4	Sequential extraction protocol for organic matter from soils and sediments using high resolution mass spectrometry. <i>Analytica Chimica Acta</i> , 2017, 972, 54-61.	5.4	110
5	Influences of organic carbon speciation on hyporheic corridor biogeochemistry and microbial ecology. <i>Nature Communications</i> , 2018, 9, 585.	12.8	110
6	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 235-258.	2.0	109
7	Intracellular pathways for lignin catabolism in white-rot fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	82
8	Potential utilization of terrestrially derived dissolved organic matter by aquatic microbial communities in saline lakes. <i>ISME Journal</i> , 2020, 14, 2313-2324.	9.8	64
9	Dispersal limitation and thermodynamic constraints govern spatial structure of permafrost microbial communities. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	62
10	Using metacommunity ecology to understand environmental metabolomes. <i>Nature Communications</i> , 2020, 11, 6369.	12.8	51
11	Carbon Limitation Leads to Thermodynamic Regulation of Aerobic Metabolism. <i>Environmental Science and Technology Letters</i> , 2020, 7, 517-524.	8.7	32
12	Multimodal MSI in Conjunction with Broad Coverage Spatially Resolved MS ² Increases Confidence in Both Molecular Identification and Localization. <i>Analytical Chemistry</i> , 2018, 90, 702-707.	6.5	30
13	Towards resolving the spatial metabolome with unambiguous molecular annotations in complex biological systems by coupling mass spectrometry imaging with structures for lossless ion manipulations. <i>Chemical Communications</i> , 2019, 55, 306-309.	4.1	27
14	Using Community Science to Reveal the Global Chemogeography of River Metabolomes. <i>Metabolites</i> , 2020, 10, 518.	2.9	27
15	Novel metabolic interactions and environmental conditions mediate the boreal peatmoss-cyanobacteria mutualism. <i>ISME Journal</i> , 2022, 16, 1074-1085.	9.8	25
16	Ecological theory applied to environmental metabolomes reveals compositional divergence despite conserved molecular properties. <i>Science of the Total Environment</i> , 2021, 788, 147409.	8.0	21
17	Spatial gradients in the characteristics of soil-carbon fractions are associated with abiotic features but not microbial communities. <i>Biogeosciences</i> , 2019, 16, 3911-3928.	3.3	19
18	Coupled Biotic-Abiotic Processes Control Biogeochemical Cycling of Dissolved Organic Matter in the Columbia River Hyporheic Zone. <i>Frontiers in Water</i> , 2021, 2, .	2.3	18

#	ARTICLE	IF	CITATIONS
19	Co-located contemporaneous mapping of morphological, hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA. <i>Earth System Science Data</i> , 2019, 11, 1567-1581.	9.9	14
20	A Customizable Flow Injection System for Automated, High Throughput, and Time Sensitive Ion Mobility Spectrometry and Mass Spectrometry Measurements. <i>Analytical Chemistry</i> , 2018, 90, 737-744.	6.5	11
21	Disturbance triggers non-linear microbe–environment feedbacks. <i>Biogeosciences</i> , 2021, 18, 4773-4789.	3.3	8
22	Implications of sample treatment on characterization of riverine dissolved organic matter. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 773-782.	3.5	6
23	MetFish: a Metabolomics Pipeline for Studying Microbial Communities in Chemically Extreme Environments. <i>MSystems</i> , 2021, 6, e0105820.	3.8	5
24	Inferring the Contribution of Microbial Taxa and Organic Matter Molecular Formulas to Ecological Assembly. <i>Frontiers in Microbiology</i> , 2022, 13, 803420.	3.5	5
25	Organic matter transformations are disconnected between surface water and the hyporheic zone. <i>Biogeosciences</i> , 2022, 19, 3099-3110.	3.3	4