

Katherine B Louie

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,526
citations

430874

18
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

4185
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic root exudate chemistry and microbial substrate preferences drive patterns in rhizosphere microbial community assembly. <i>Nature Microbiology</i> , 2018, 3, 470-480.	13.3	1,268
2	Widespread adenine N6-methylation of active genes in fungi. <i>Nature Genetics</i> , 2017, 49, 964-968.	21.4	292
3	Cooking shapes the structure and function of the gut microbiome. <i>Nature Microbiology</i> , 2019, 4, 2052-2063.	13.3	112
4	Lineage-specific chromatin signatures reveal a regulator of lipid metabolism in microalgae. <i>Nature Plants</i> , 2015, 1, 15107.	9.3	89
5	CRAGE enables rapid activation of biosynthetic gene clusters in undomesticated bacteria. <i>Nature Microbiology</i> , 2019, 4, 2498-2510.	13.3	85
6	OpenMSI: A High-Performance Web-Based Platform for Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2013, 85, 10354-10361.	6.5	79
7	Regulation of Oxygenic Photosynthesis during Trophic Transitions in the Green Alga <i>Chromochloris zofingiensis</i> . <i>Plant Cell</i> , 2019, 31, 579-601.	6.6	61
8	A robust gene-stacking method utilizing yeast assembly for plant synthetic biology. <i>Nature Communications</i> , 2016, 7, 13215.	12.8	59
9	Mass spectrometry imaging for in situ kinetic histochemistry. <i>Scientific Reports</i> , 2013, 3, 1656.	3.3	57
10	â€œReplica-Extraction-Transferâ€•Nanostructure-Initiator Mass Spectrometry Imaging of Acoustically Printed Bacteria. <i>Analytical Chemistry</i> , 2013, 85, 10856-10862.	6.5	43
11	Taxonomic and Metabolic Incongruence in the Ancient Genus <i>Streptomyces</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2170.	3.5	40
12	Anaerobic gut fungi are an untapped reservoir of natural products. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	35
13	Resolving brain regions using nanostructure initiator mass spectrometry imaging of phospholipids. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 693.	1.3	34
14	Acoustic deposition with NIMS as a high-throughput enzyme activity assay. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 707-711.	3.7	33
15	MAGI: A Method for Metabolite Annotation and Gene Integration. <i>ACS Chemical Biology</i> , 2019, 14, 704-714.	3.4	28
16	Novel metabolic interactions and environmental conditions mediate the boreal peatmoss-cyanobacteria mutualism. <i>ISME Journal</i> , 2022, 16, 1074-1085.	9.8	25
17	Microbial Ecology on Solar Panels in Berkeley, CA, United States. <i>Frontiers in Microbiology</i> , 2018, 9, 3043.	3.5	23
18	Ecological generalism drives hyperdiversity of secondary metabolite gene clusters in xylarialean endophytes. <i>New Phytologist</i> , 2022, 233, 1317-1330.	7.3	23

#	ARTICLE	IF	CITATIONS
19	A multi-omic characterization of temperature stress in a halotolerant <i>Scenedesmus</i> strain for algal biotechnology. <i>Communications Biology</i> , 2021, 4, 333.	4.4	22
20	New insight into the role of MMP14 in metabolic balance. <i>PeerJ</i> , 2016, 4, e2142.	2.0	21
21	Self-degrading, MRI-detectable hydrogel sensors with picomolar target sensitivity. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1792-1799.	3.0	18
22	Morphology-Driven Control of Metabolite Selectivity Using Nanostructure-Initiator Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 6521-6526.	6.5	18
23	CRAGE-CRISPR facilitates rapid activation of secondary metabolite biosynthetic gene clusters in bacteria. <i>Cell Chemical Biology</i> , 2022, 29, 696-710.e4.	5.2	15
24	Mass Spectrometry for Natural Product Discovery. , 2020, , 263-306.		13
25	Genomics, Exometabolomics, and Metabolic Probing Reveal Conserved Proteolytic Metabolism of <i>Thermoflexus hugenholtzii</i> and Three Candidate Species From China and Japan. <i>Frontiers in Microbiology</i> , 2021, 12, 632731.	3.5	8
26	Metabolic Imaging Using Nanostructure-Initiator Mass Spectrometry (NIMS). <i>Methods in Molecular Biology</i> , 2014, 1198, 313-329.	0.9	7
27	An integrated workflow for phenazine-modifying enzyme characterization. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 567-577.	3.0	6
28	Development of platforms for functional characterization and production of phenazines using a multi-chassis approach via CRAGE. <i>Metabolic Engineering</i> , 2022, 69, 188-197.	7.0	4