

# Anne-Kristin Kaster

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

3,957  
citations

331670

21  
h-index

395702

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

4847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methanogenic archaea: ecologically relevant differences in energy conservation. <i>Nature Reviews Microbiology</i> , 2008, 6, 579-591.	28.6	1,674
2	Hydrogenases from Methanogenic Archaea, Nickel, a Novel Cofactor, and H <sub>2</sub> Storage. <i>Annual Review of Biochemistry</i> , 2010, 79, 507-536.	11.1	374
3	Coupling of ferredoxin and heterodisulfide reduction via electron bifurcation in hydrogenotrophic methanogenic archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2981-2986.	7.1	356
4	An Ancient Pathway Combining Carbon Dioxide Fixation with the Generation and Utilization of a Sodium Ion Gradient for ATP Synthesis. <i>PLoS ONE</i> , 2012, 7, e33439.	2.5	246
5	Comparing and Evaluating Metagenome Assembly Tools from a Microbiologist's Perspective - Not Only Size Matters!. <i>PLoS ONE</i> , 2017, 12, e0169662.	2.5	186
6	Cultivation and functional characterization of 79 planctomycetes uncovers their unique biology. <i>Nature Microbiology</i> , 2020, 5, 126-140.	13.3	164
7	Single cell genomic study of <i>Dehalococcoidetes</i> species from deep-sea sediments of the Peruvian Margin. <i>ISME Journal</i> , 2014, 8, 1831-1842.	9.8	117
8	Unravelling the Identity, Metabolic Potential and Global Biogeography of the Atmospheric Methane-Oxidizing Upland Soil Cluster $\epsilon$ . <i>Environmental Microbiology</i> , 2018, 20, 1016-1029.	3.8	103
9	Single-cell genomics based on Raman sorting reveals novel carotenoid-containing bacteria in the Red Sea. <i>Microbial Biotechnology</i> , 2017, 10, 125-137.	4.2	72
10	Untangling Genomes of Novel Planctomycetal and Verrucomicrobial Species from Monterey Bay Kelp Forest Metagenomes by Refined Binning. <i>Frontiers in Microbiology</i> , 2017, 8, 472.	3.5	70
11	<i>Fuerstia marisgermanicae</i> gen. nov., sp. nov., an Unusual Member of the Phylum Planctomycetes from the German Wadden Sea. <i>Frontiers in Microbiology</i> , 2016, 7, 2079.	3.5	49
12	Updates to the recently introduced family Lacipirellulaceae in the phylum Planctomycetes: isolation of strains belonging to the novel genera <i>Aeoliella</i> , <i>Botrimarina</i> , <i>Pirellulimonas</i> and <i>Pseudobythopirellula</i> and the novel species <i>Bythopirellula polymerisocia</i> and <i>Posidoniimonas corsicana</i> . <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1979-1997.	1.7	47
13	Additions to the genus <i>Gimesia</i> : description of <i>Gimesia alba</i> sp. nov., <i>Gimesia algae</i> sp. nov., <i>Gimesia aquarii</i> sp. nov., <i>Gimesia aquatilis</i> sp. nov., <i>Gimesia fumaroli</i> sp. nov. and <i>Gimesia panarensis</i> sp. nov., isolated from aquatic habitats of the Northern Hemisphere. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1999-2018.	1.7	41
14	Isolation, Biosynthesis and Chemical Modifications of Rubterolones A-F: Rare Tropolone Alkaloids from <i>Actinomadura</i> sp. 5. <i>Chemistry - A European Journal</i> , 2017, 23, 9338-9345.	3.3	39
15	Microbial single-cell omics: the crux of the matter. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8209-8220.	3.6	38
16	Single-Cell (Meta-)Genomics of a Dimorphic <i>Candidatus Thiomargarita nelsonii</i> Reveals Genomic Plasticity. <i>Frontiers in Microbiology</i> , 2016, 7, 603.	3.5	36
17	Complete Genome Sequence of <i>Methanothermobacter marburgensis</i> , a Methanoarchaeon Model Organism. <i>Journal of Bacteriology</i> , 2010, 192, 5850-5851.	2.2	32
18	Homoacetogenesis in Deep-Sea <i>Chloroflexi</i> , as Inferred by Single-Cell Genomics, Provides a Link to Reductive Dehalogenation in Terrestrial <i>Dehalococcoidetes</i> . <i>MBio</i> , 2017, 8, .	4.1	31

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19	Genomeâ€inferred spatioâ€temporal resolution of an uncultivated Roizmanbacterium reveals its ecological preferences in groundwater. <i>Environmental Microbiology</i> , 2020, 22, 726-737.	3.8	31
20	Communal metabolism by <i>Methylococcaceae</i> and <i>Methylophilaceae</i> is driving rapid aerobic methane oxidation in sediments of a shallow seep near Elba, Italy. <i>Environmental Microbiology</i> , 2019, 21, 3780-3795.	3.8	28
21	<i>Deltaproteobacteria</i> ( <i>Pelobacter</i> ) and <i>Methanococoides</i> are responsible for choline-dependent methanogenesis in a coastal saltmarsh sediment. <i>ISME Journal</i> , 2019, 13, 277-289.	9.8	27
22	Targeted Cell Sorting Combined With Single Cell Genomics Captures Low Abundant Microbial Dark Matter With Higher Sensitivity Than Metagenomics. <i>Frontiers in Microbiology</i> , 2020, 11, 1377.	3.5	25
23	<i>Actinomadura rubteroloni</i> sp. nov. and <i>Actinomadura macrotermis</i> sp. nov., isolated from the gut of the fungus growing-termite <i>Macrotermes natalensis</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5255-5262.	1.7	20
24	How clear is our current view on microbial dark matter? (Re-)assessing public MAG & SAG datasets with MDMcleaner. <i>Nucleic Acids Research</i> , 2022, 50, e76-e76.	14.5	19
25	Comparative Genomics Reveals Prophylactic and Catabolic Capabilities of <i>Actinobacteria</i> within the Fungus-Farming Termite Symbiosis. <i>MSphere</i> , 2021, 6, .	2.9	17
26	A marine plasmid hitchhiking vast phylogenetic and geographic distances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20568-20573.	7.1	16
27	<i>Nocardia macrotermis</i> sp. nov. and <i>Nocardia aurantia</i> sp. nov., isolated from the gut of the fungus-growing termite <i>Macrotermes natalensis</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5226-5234.	1.7	16
28	Spirocyclic cladosporicin A and cladosporiumins I and J from a <i>Hydractinia</i> -associated <i>Cladosporium sphaerospermum</i> SW67. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1084-1093.	4.5	15
29	<i>Streptomyces smaragdinus</i> sp. nov., isolated from the gut of the fungus growing-termite <i>Macrotermes natalensis</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5806-5811.	1.7	15
30	Printing Microbial Dark Matter: Using Single Cell Dispensing and Genomics to Investigate the Patescibacteria/Candidate Phyla Radiation. <i>Frontiers in Microbiology</i> , 2021, 12, 635506.	3.5	14
31	Comparative Genomics and Mutational Analysis Reveals a Novel XoxF-Utilizing Methylotroph in the <i>Roseobacter</i> Group Isolated From the Marine Environment. <i>Frontiers in Microbiology</i> , 2018, 9, 766.	3.5	13
32	Polyhalogenation of Isoflavonoids by the Termite-Associated <i>Actinomadura</i> sp. RB99. <i>Journal of Natural Products</i> , 2020, 83, 3102-3110.	3.0	10