

Lars WÃ¶rmer

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,182
citations

236925

25
h-index

233421

45
g-index

51
all docs

51
docs citations

51
times ranked

2758
citing authors

#	ARTICLE	IF	CITATIONS
1	Biotransformation of 3-Nitro-4-hydroxybenzene Arsonic Acid (Roxarsone) and Release of Inorganic Arsenic by Clostridium Species. <i>Environmental Science & Technology</i> , 2007, 41, 818-823.	10.0	223
2	Global diversity of microbial communities in marine sediment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27587-27597.	7.1	174
3	Transitory microbial habitat in the hyperarid Atacama Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2670-2675.	7.1	172
4	Natural Photodegradation of the Cyanobacterial Toxins Microcystin and Cylindrospermopsin. <i>Environmental Science & Technology</i> , 2010, 44, 3002-3007.	10.0	118
5	Application of two new LC-ESI-MS methods for improved detection of intact polar lipids (IPLs) in environmental samples. <i>Organic Geochemistry</i> , 2013, 59, 10-21.	1.8	106
6	Cylindrospermopsin is not degraded by co-occurring natural bacterial communities during a 40-day study. <i>Harmful Algae</i> , 2008, 7, 206-213.	4.8	101
7	Toxicity of <i>Aphanizomenon ovalisporum</i> (Cyanobacteria) in a Spanish water reservoir. <i>European Journal of Phycology</i> , 2006, 41, 39-45.	2.0	94
8	Comprehensive glycerol ether lipid fingerprints through a novel reversed phase liquid chromatography-mass spectrometry protocol. <i>Organic Geochemistry</i> , 2013, 65, 53-62.	1.8	83
9	Temperature limits to deep seafloor life in the Nankai Trough subduction zone. <i>Science</i> , 2020, 370, 1230-1234.	12.6	65
10	Microbial dormancy in the marine subsurface: Global endospore abundance and response to burial. <i>Science Advances</i> , 2019, 5, eaav1024.	10.3	64
11	Phylogeography of Cylindrospermopsin and Paralytic Shellfish Toxin-Producing Nostocales Cyanobacteria from Mediterranean Europe (Spain). <i>Applied and Environmental Microbiology</i> , 2014, 80, 1359-1370.	3.1	63
12	Molecular evidence for abiotic sulfurization of dissolved organic matter in marine shallow hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 35-52.	3.9	60
13	Overwintering populations of <i>Anabaena</i> , <i>Aphanizomenon</i> and <i>Microcystis</i> as potential inocula for summer blooms. <i>Journal of Plankton Research</i> , 2013, 35, 1254-1266.	1.8	53
14	Cylindrospermopsin production and release by the potentially invasive cyanobacterium <i>Aphanizomenon ovalisporum</i> under temperature and light gradients. <i>Harmful Algae</i> , 2011, 10, 668-675.	4.8	51
15	Multi-scale strategies for the monitoring of freshwater cyanobacteria: Reducing the sources of uncertainty. <i>Water Research</i> , 2012, 46, 3043-3053.	11.3	51
16	Important roles for membrane lipids in haloarchaeal bioenergetics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2940-2956.	2.6	49
17	Ultra-high-resolution paleoenvironmental records via direct laser-based analysis of lipid biomarkers in sediment core samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15669-15674.	7.1	45
18	Cyanobacterial heterocyst glycolipids in cultures and environmental samples: Diversity and biomarker potential. <i>Limnology and Oceanography</i> , 2012, 57, 1775-1788.	3.1	40

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19	Cyanobacterial abundance and microcystin occurrence in Mediterranean water reservoirs in Central Spain: microcystins in the Madrid area. <i>European Journal of Phycology</i> , 2006, 41, 281-291.	2.0	38
20	Importance of natural sedimentation in the fate of microcystins. <i>Chemosphere</i> , 2011, 82, 1141-1146.	8.2	37
21	Methanothermobacter thermautotrophicus modulates its membrane lipids in response to hydrogen and nutrient availability. <i>Frontiers in Microbiology</i> , 2015, 6, 5.	3.5	35
22	Rapid and simultaneous analysis of three molecular sea surface temperature proxies and application to sediments from the Sea of Marmara. <i>Organic Geochemistry</i> , 2015, 85, 42-53.	1.8	34
23	Anatoxin-a occurrence and potential cyanobacterial anatoxin-a producers in Spanish reservoirs. <i>Journal of Phycology</i> , 2007, 43, 1120-1125.	2.3	31
24	First detection of cyanobacterial PSP (paralytic shellfish poisoning) toxins in Spanish freshwaters. <i>Toxicon</i> , 2011, 57, 918-921.	1.6	31
25	Advances in solid phase extraction of the cyanobacterial toxin cylindrospermopsin. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 568-575.	2.0	27
26	Sedimentation Patterns of Toxin-Producing Microcystis Morphospecies in Freshwater Reservoirs. <i>Toxins</i> , 2013, 5, 939-957.	3.4	24
27	Bisnorgammacerane tracers predatory pressure and the persistent rise of algal ecosystems after Snowball Earth. <i>Nature Communications</i> , 2019, 10, 476.	12.8	24
28	A highly asynchronous developmental program triggered during germination of dormant akinetes of filamentous diazotrophic cyanobacteria. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	22
29	Novel Cardiolipins from Uncultured Methane-Metabolizing Archaea. <i>Archaea</i> , 2012, 2012, 1-9.	2.3	21
30	Functional structure of laminated microbial sediments from a supratidal sandy beach of the German Wadden Sea (St. Peter-Ording). <i>Journal of Sea Research</i> , 2014, 85, 463-473.	1.6	21
31	Temperature-Dependent Dispersal Strategies of Aphanizomenon ovalisporum (Nostocales). <i>Journal of Phycology</i> , 2017, 53, 107-117.	2.8	20
32	Comprehensive Analysis of Microbial Lipids in Environmental Samples Through HPLC-MS Protocols. <i>Springer Protocols</i> , 2015, , 289-317.	0.3	19
33	Size and composition of subseafloor microbial community in the Benguela upwelling area examined from intact membrane lipid and DNA analysis. <i>Organic Geochemistry</i> , 2017, 111, 86-100.	1.8	19
34	An annually resolved record of Western European vegetation response to Younger Dryas cooling. <i>Quaternary Science Reviews</i> , 2020, 231, 106198.	3.0	19
35	Micrometer scale imaging of sedimentary climate archives – Sample preparation for combined elemental and lipid biomarker analysis. <i>Organic Geochemistry</i> , 2019, 127, 81-91.	1.8	17
36	Towards multiproxy, ultra-high resolution molecular stratigraphy: Enabling laser-induced mass spectrometry imaging of diverse molecular biomarkers in sediments. <i>Organic Geochemistry</i> , 2019, 127, 136-145.	1.8	17

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37	Limited Stability of Microcystins in Oligopeptide Compositions of <i>Microcystis aeruginosa</i> (Cyanobacteria): Implications in the Definition of Chemotypes. <i>Toxins</i> , 2013, 5, 1089-1104.	3.4	16
38	A micrometer-scale snapshot on phototroph spatial distributions: mass spectrometry imaging of microbial mats in Octopus Spring, Yellowstone National Park. <i>Geobiology</i> , 2020, 18, 742-759.	2.4	16
39	Biochemical fingerprints of marine fungi: implications for trophic and biogeochemical studies. <i>Aquatic Microbial Ecology</i> , 2020, 84, 75-90.	1.8	14
40	The ABC Transporter Components HgdB and HgdC are Important for Glycolipid Layer Composition and Function of Heterocysts in <i>Anabaena</i> sp. PCC 7120. <i>Life</i> , 2018, 8, 26.	2.4	13
41	Mechanistic Insights Into Molecular Proxies Through Comparison of Subannually Resolved Sedimentary Records With Instrumental Water Column Data in the Santa Barbara Basin, Southern California. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA004076.	2.9	13
42	Improved sensitivity of sedimentary phospholipid analysis resulting from a novel extract cleanup strategy. <i>Organic Geochemistry</i> , 2013, 65, 46-52.	1.8	11
43	Phosphate-Arsenic Interactions in Halophilic Microorganisms of the Microbial Mat from Laguna Tebenquiche: from the Microenvironment to the Genomes. <i>Microbial Ecology</i> , 2021, 81, 941-953.	2.8	11
44	Ecotoxicity assessment of microcystins from freshwater samples using a bioluminescent cyanobacterial bioassay. <i>Chemosphere</i> , 2020, 240, 124966.	8.2	10
45	Correlative 3D anatomy and spatial chemistry in animal-microbe symbioses: developing sample preparation for phase-contrast synchrotron radiation based micro-computed tomography and mass spectrometry imaging. , 2019, , .		3
46	Sub-Annual to Interannual Arabian Sea Upwelling, Sea Surface Temperature, and Indian Monsoon Rainfall Reconstructed Using Congruent Micrometer-scale Climate Proxies. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	2.9	3
47	Disrupted Coherence Between Upwelling Strength and Redox Conditions Reflects Source Water Change in Santa Barbara Basin During the 20th Century. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, .	2.9	3
48	The Exploration of the <i>Thermococcus barophilus</i> Lipidome Reveals the Widest Variety of Phosphoglycolipids in Thermococcales. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	0