

Christopher T Lefevre

List of Publications by Year in descending order

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66
papers

3,499
citations

117571

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72
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72
docs citations

72
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecology, Diversity, and Evolution of Magnetotactic Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2013, 77, 497-526.	2.9	338
2	A Cultured Greigite-Producing Magnetotactic Bacterium in a Novel Group of Sulfate-Reducing Bacteria. <i>Science</i> , 2011, 334, 1720-1723.	6.0	184
3	<i>Magnetococcus marinus</i> gen. nov., sp. nov., a marine, magnetotactic bacterium that represents a novel lineage (Magnetococcaceae fam. nov., Magnetococcales ord. nov.) at the base of the Alphaproteobacteria. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 801-808.	0.8	134
4	Novel magnetite-producing magnetotactic bacteria belonging to the <i>Gammaproteobacteria</i> . <i>ISME Journal</i> , 2012, 6, 440-450.	4.4	130
5	Isolation and characterization of a magnetotactic bacterial culture from the Mediterranean Sea. <i>Environmental Microbiology</i> , 2009, 11, 1646-1657.	1.8	127
6	Moderately Thermophilic Magnetotactic Bacteria from Hot Springs in Nevada. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3740-3743.	1.4	127
7	Diversity of Magneto-Aerotactic Behaviors and Oxygen Sensing Mechanisms in Cultured Magnetotactic Bacteria. <i>Biophysical Journal</i> , 2014, 107, 527-538.	0.2	122
8	Targeted thermal therapy with genetically engineered magnetite magnetosomes@RGD: Photothermia is far more efficient than magnetic hyperthermia. <i>Journal of Controlled Release</i> , 2018, 279, 271-281.	4.8	110
9	Phylogenetic significance of composition and crystal morphology of magnetosome minerals. <i>Frontiers in Microbiology</i> , 2013, 4, 344.	1.5	105
10	Monophyletic origin of magnetotaxis and the first magnetosomes. <i>Environmental Microbiology</i> , 2013, 15, 2267-2274.	1.8	102
11	<i>Magnetovibrio blakemorei</i> gen. nov., sp. nov., a magnetotactic bacterium (Alphaproteobacteria: Tj ETQq1 1 0.784314 rgBT /Overlook). <i>Microbiology</i> , 2013, 63, 1824-1833.	0.8	102
12	Comparative genomic analysis of magnetotactic bacteria from the <i>Deltaproteobacteria</i> provides new insights into magnetite and greigite magnetosome genes required for magnetotaxis. <i>Environmental Microbiology</i> , 2013, 15, 2712-2735.	1.8	99
13	Genetically tailored magnetosomes used as MRI probe for molecular imaging of brain tumor. <i>Biomaterials</i> , 2017, 121, 167-178.	5.7	95
14	Culture-independent characterization of a novel, uncultivated magnetotactic member of the <i>Nitrospirae</i> phylum. <i>Environmental Microbiology</i> , 2011, 13, 538-549.	1.8	93
15	Common ancestry of iron oxide- and iron-sulfide-based biomineralization in magnetotactic bacteria. <i>ISME Journal</i> , 2011, 5, 1634-1640.	4.4	89
16	Isolation of obligately alkaliphilic magnetotactic bacteria from extremely alkaline environments. <i>Environmental Microbiology</i> , 2011, 13, 2342-2350.	1.8	72
17	<i>Magnetospira thiophila</i> gen. nov., sp. nov., a marine magnetotactic bacterium that represents a novel lineage within the Rhodospirillaceae (Alphaproteobacteria). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 2443-2450.	0.8	70
18	Morphological features of elongated-anisotropic magnetosome crystals in magnetotactic bacteria of the <i>Nitrospirae</i> phylum and the <i>Deltaproteobacteria</i> class. <i>Earth and Planetary Science Letters</i> , 2011, 312, 194-200.	1.8	65

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19	Evolution of the bacterial organelle responsible for magnetotaxis. Trends in Microbiology, 2013, 21, 534-543.	3.5	62
20	Characterization of a homogeneous taxonomic group of marine magnetotactic cocci within a low tide zone in the China Sea. Environmental Microbiology, 2008, 10, 1158-1164.	1.8	58
21	Ectosymbiotic bacteria at the origin of magnetoreception in a marine protist. Nature Microbiology, 2019, 4, 1088-1095.	5.9	57
22	Swimming with magnets: From biological organisms to synthetic devices. Physics Reports, 2019, 789, 1-54.	10.3	57
23	Magnetosomes, Biogenic Magnetic Nanomaterials for Brain Molecular Imaging with 17.2 T MRI Scanner. Advanced Healthcare Materials, 2015, 4, 1076-1083.	3.9	55
24	Iron-biomineralizing organelle in magnetotactic bacteria: function, synthesis and preservation in ancient rock samples. Environmental Microbiology, 2020, 22, 3611-3632.	1.8	54
25	Magnetotactic bacteria as a new model for P sequestration in the ferruginous Lake Pavin. Geochemical Perspectives Letters, 0, , 35-41.	1.0	54
26	Insight into the Evolution of Magnetotaxis in Magnetospirillum spp., Based on <i>mam</i> Gene Phylogeny. Applied and Environmental Microbiology, 2012, 78, 7238-7248.	1.4	52
27	Intracellular amorphous Ca-carbonate and magnetite biomineralization by a magnetotactic bacterium affiliated to the Alphaproteobacteria. ISME Journal, 2021, 15, 1-18.	4.4	52
28	Magnetotactic Bacteria. , 2013, , 453-494.		51
29	Nonmagnetotactic Multicellular Prokaryotes from Low-Saline, Nonmarine Aquatic Environments and Their Unusual Negative Phototactic Behavior. Applied and Environmental Microbiology, 2010, 76, 3220-3227.	1.4	50
30	Genomic study of a novel magnetotactic <i>Alphaproteobacteria</i> uncovers the multiple ancestry of magnetotaxis. Environmental Microbiology, 2018, 20, 4415-4430.	1.8	48
31	Difference between the Magnetic Properties of the Magnetotactic Bacteria and Those of the Extracted Magnetosomes: Influence of the Distance between the Chains of Magnetosomes. Journal of Physical Chemistry C, 2008, 112, 12304-12309.	1.5	47
32	Characterization of Bacterial Magnetotactic Behaviors by Using a Magnetospectrophotometry Assay. Applied and Environmental Microbiology, 2009, 75, 3835-3841.	1.4	45
33	Destabilization of a flow focused suspension of magnetotactic bacteria. Physical Review Fluids, 2016, 1, .	1.0	45
34	Deciphering unusual uncultured magnetotactic multicellular prokaryotes through genomics. ISME Journal, 2014, 8, 1055-1068.	4.4	42
35	Magnetotactic Bacteria from Extreme Environments. Life, 2013, 3, 295-307.	1.1	40
36	Desulfamplus magnetovallimortis gen. nov., sp. nov., a magnetotactic bacterium from a brackish desert spring able to biomineralize greigite and magnetite, that represents a novel lineage in the Desulfobacteraceae. Systematic and Applied Microbiology, 2017, 40, 280-289.	1.2	39

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37	Transformation Cycle of Magnetosomes in Human Stem Cells: From Degradation to Biosynthesis of Magnetic Nanoparticles Anew. <i>ACS Nano</i> , 2020, 14, 1406-1417.	7.3	36
38	Magnetoreception in Microorganisms. <i>Trends in Microbiology</i> , 2020, 28, 266-275.	3.5	35
39	Characterization of Mediterranean magnetotactic bacteria. <i>Journal of Ocean University of China</i> , 2007, 6, 355-359.	0.6	29
40	High-speed motility originates from cooperatively pushing and pulling flagella bundles in bilophotrichous bacteria. <i>ELife</i> , 2020, 9, .	2.8	27
41	Repeated horizontal gene transfers triggered parallel evolution of magnetotaxis in two evolutionary divergent lineages of magnetotactic bacteria. <i>ISME Journal</i> , 2020, 14, 1783-1794.	4.4	25
42	Growth of magnetotactic sulfate-reducing bacteria in oxygen concentration gradient medium. <i>Environmental Microbiology Reports</i> , 2016, 8, 1003-1015.	1.0	24
43	The gammaproteobacterium <i>Achromatium</i> forms intracellular amorphous calcium carbonate and not (crystalline) calcite. <i>Geobiology</i> , 2021, 19, 199-213.	1.1	20
44	Calcium ion-mediated assembly and function of glycosylated flagellar sheath of marine magnetotactic bacterium. <i>Molecular Microbiology</i> , 2010, 78, 1304-1312.	1.2	19
45	Accumulation and Dissolution of Magnetite Crystals in a Magnetically Responsive Ciliate. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	17
46	MamA as a Model Protein for Structure-Based Insight into the Evolutionary Origins of Magnetotactic Bacteria. <i>PLoS ONE</i> , 2015, 10, e0130394.	1.1	17
47	A Bacterial Backbone: Magnetosomes in Magnetotactic Bacteria. , 2011, , 75-102.		16
48	RGD-functionalized magnetosomes are efficient tumor radioenhancers for X-rays and protons. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 23, 102084.	1.7	15
49	Magnetotactic bacteria used to generate electricity based on Faraday's law of electromagnetic induction. <i>Letters in Applied Microbiology</i> , 2018, 66, 362-367.	1.0	14
50	Magnetotactic Bacteria, Magnetosomes, and Nanotechnology. , 2014, , 39-74.		14
51	Positioning the Flagellum at the Center of a Dividing Cell To Combine Bacterial Division with Magnetic Polarity. <i>MBio</i> , 2015, 6, e02286.	1.8	13
52	Localized iron accumulation precedes nucleation and growth of magnetite crystals in magnetotactic bacteria. <i>Scientific Reports</i> , 2017, 7, 8291.	1.6	12
53	Genomic insights into the early-diverging magnetotactic bacteria. <i>Environmental Microbiology</i> , 2016, 18, 1-3.	1.8	11
54	<i>Endothiovibrio diazotrophicus</i> gen. nov., sp. nov., a novel nitrogen-fixing, sulfur-oxidizing gammaproteobacterium isolated from a salt marsh. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1491-1498.	0.8	10

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55	Structure and evolution of the magnetochrome domains: no longer alone. <i>Frontiers in Microbiology</i> , 2014, 5, 117.	1.5	9
56	Decoding Biomineralization: Interaction of a Mad10-Derived Peptide with Magnetite Thin Films. <i>Nano Letters</i> , 2019, 19, 8207-8215.	4.5	9
57	<i>Magnetospirillum gryphiswaldense</i> . <i>Trends in Microbiology</i> , 2020, 28, 947-948.	3.5	9
58	Mass collection of magnetotactic bacteria from the permanently stratified ferruginous Lake Pavin, France. <i>Environmental Microbiology</i> , 2022, 24, 721-736.	1.8	7
59	Magnetotactic Protists at the Oxic-Anoxic Transition Zones of Coastal Aquatic Environments. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 131-143.	0.3	6
60	Complete Genome Sequence of Strain BW-2, a Magnetotactic Gammaproteobacterium in the Family Ectothiorhodospiraceae, Isolated from a Brackish Spring in Death Valley, California. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	4
61	Complete Genome Sequence of Strain SS-5, a Magnetotactic Gammaproteobacterium Isolated from the Salton Sea, a Shallow, Saline, Endorheic Rift Lake Located on the San Andreas Fault in California. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	4
62	Ice nucleation in a Gram-positive bacterium isolated from precipitation depends on a polyketide synthase and non-ribosomal peptide synthetase. <i>ISME Journal</i> , 2022, 16, 890-897.	4.4	4
63	Draft Genome Sequence of the Obligately Alkaliphilic Sulfate-Reducing Bacterium <i>Desulfonatronum thiodismutans</i> Strain MLF1. <i>Genome Announcements</i> , 2014, 2, .	0.8	3
64	Biogeochemical Niche of Magnetotactic Cocci Capable of Sequestering Large Polyphosphate Inclusions in the Anoxic Layer of the Lake Pavin Water Column. <i>Frontiers in Microbiology</i> , 2021, 12, 789134.	1.5	3
65	Magneto-Aerotaxis: Bacterial Motility in Magnetic Fields. <i>Biophysical Journal</i> , 2017, 112, 567a.	0.2	1
66	Extremophilic Magnetotactic Bacteria. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 581-595.	0.3	0