Brian H Lower

List of Publications by Year
in descending order

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41 papers	1,657 citations	361045 20 h-index	377514 34 g-index
41 all docs	41 docs citations	41 times ranked	1853 citing authors

#	Article	IF	Citations
1	Isolation of a High-Affinity Functional Protein Complex between OmcA and MtrC: Two Outer Membrane Decaheme c -Type Cytochromes of Shewanella oneidensis MR-1. Journal of Bacteriology, 2006, 188, 4705-4714.	1.0	227
2	Bioreduction of hematite nanoparticles by the dissimilatory iron reducing bacterium Shewanella oneidensis MR-1. Geochimica Et Cosmochimica Acta, 2009, 73, 962-976.	1.6	216
3	High-Affinity Binding and Direct Electron Transfer to Solid Metals by theShewanella oneidensisMR-1 Outer Membranec-type Cytochrome OmcA. Journal of the American Chemical Society, 2006, 128, 13978-13979.	6.6	210
4	Specific Bonds between an Iron Oxide Surface and Outer Membrane Cytochromes MtrC and OmcA from Shewanella oneidensis MR-1. Journal of Bacteriology, 2007, 189, 4944-4952.	1.0	126
5	Antibody Recognition Force Microscopy Shows that Outer Membrane Cytochromes OmcA and MtrC Are Expressed on the Exterior Surface of Shewanella oneidensis MR-1. Applied and Environmental Microbiology, 2009, 75, 2931-2935.	1.4	100
6	In Vitro Evolution of a Peptide with a Hematite Binding Motif That May Constitute a Natural Metal-Oxide Binding Archetype. Environmental Science & Technology, 2008, 42, 3821-3827.	4.6	83
7	Simultaneous Force and Fluorescence Measurements of a Protein That Forms a Bond between a Living Bacterium and a Solid Surface. Journal of Bacteriology, 2005, 187, 2127-2137.	1.0	72
8	Binding and direct electrochemistry of OmcA, an outer-membrane cytochrome from an iron reducing bacterium, with oxide electrodes: A candidate biofuel cell system. Inorganica Chimica Acta, 2008, 361, 769-777.	1.2	69
9	Polymorphisms in fibronectin binding protein A of Staphylococcus aureus are associated with infection of cardiovascular devices. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18372-18377.	3.3	69
10	The Bacterial Magnetosome: A Unique Prokaryotic Organelle. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 63-80.	1.0	64
11	Electron tunneling properties of outer-membrane decaheme cytochromes from Shewanella oneidensis. Geochimica Et Cosmochimica Acta, 2007, 71, 543-555.	1.6	56
12	Correlation between Fundamental Binding Forces and Clinical Prognosis ofStaphylococcus aureusInfections of Medical Implants. Langmuir, 2007, 23, 2289-2292.	1.6	33
13	Dissociation Rate Constants of Human Fibronectin Binding to Fibronectin-binding Proteins on Living Staphylococcus aureus Isolated from Clinical Patients. Journal of Biological Chemistry, 2012, 287, 6693-6701.	1.6	28
14	Open Reading Frame sso2387 from the Archaeon Sulfolobus solfataricus Encodes a Polypeptide with Protein-Serine Kinase Activity. Journal of Bacteriology, 2003, 185, 3436-3445.	1.0	26
15	A Phosphoprotein from the Archaeon Sulfolobus solfataricus with Protein-Serine/Threonine Kinase Activity. Journal of Bacteriology, 2004, 186, 463-472.	1.0	25
16	Phosphoprotein with Phosphoglycerate Mutase Activity from the Archaeon Sulfolobus solfataricus. Journal of Bacteriology, 2003, 185, 2112-2121.	1.0	24
17	Putative mineral-specific proteins synthesized by a metal reducing bacterium. Numerische Mathematik, 2005, 305, 687-710.	0.7	23
18	The Archaeon Sulfolobus solfataricusContains a Membrane-Associated Protein Kinase Activity That Preferentially Phosphorylates Threonine Residues In Vitro. Journal of Bacteriology, 2000, 182, 3452-3459.	1.0	22

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19	The Membrane-Associated Protein-Serine/Threonine Kinase from Sulfolobus solfataricus Is a Glycoprotein. Journal of Bacteriology, 2002, 184, 2614-2619.	1.0	21
20	Magnetosomes and magnetite crystals produced by magnetotactic bacteria as resolved by atomic force microscopy and transmission electron microscopy. Micron, 2012, 43, 1331-1335.	1.1	20
21	Tuning bacterial hydrodynamics with magnetic fields. Physical Review E, 2017, 95, 062612.	0.8	20
22	A Tactile Response in Staphylococcus aureus. Biophysical Journal, 2010, 99, 2803-2811.	0.2	19
23	Hydrodynamic Interactions, Hidden Order, and Emergent Collective Behavior in an Active Bacterial Suspension. Physical Review Letters, 2018, 121, 188001.	2.9	18
24	Subcellular localization of the magnetosome protein MamC in the marine magnetotactic bacterium Magnetococcus marinus strain MC-1 using immunoelectron microscopy. Archives of Microbiology, 2014, 196, 481-488.	1.0	15
25	Magnetotactic Bacteria, Magnetosomes, and Nanotechnology. , 2014, , 39-74.		14
26	Fibrinogen binding is affected by amino acid substitutions in C-terminal repeat region of fibronectin binding protein A. Scientific Reports, 2019, 9, 11619.	1.6	10
27	Collection, Isolation and Enrichment of Naturally Occurring Magnetotactic Bacteria from the Environment. Journal of Visualized Experiments, 2012, , e50123.	0.2	7
28	Thermophilic Magnetotactic Bacteria from Mickey Hot Springs, an Arsenic-Rich Hydrothermal System in Oregon. ACS Earth and Space Chemistry, 2022, 6, 530-540.	1.2	7
29	Magnetotactic bacteria from Pavilion Lake, British Columbia. Frontiers in Microbiology, 2013, 4, 406.	1.5	6
30	Thrust and Power Output of the Bacterial Flagellar Motor: A Micromagnetic Tweezers Approach. Biophysical Journal, 2019, 117, 1250-1257.	0.2	6
31	Corn and hardwood biochars affected soil microbial community and enzymeÂactivities. , 2020, 3, e20082.		6
32	Spatial localization of Mms6 during biomineralization of Fe₃O₄nanocrystals inMagnetospirillum magneticumAMB-1. Journal of Materials Research, 2016, 31, 527-535.	1.2	4
33	Tunable self-assembly of magnetotactic bacteria: Role of hydrodynamics and magnetism. AIP Advances, 2020, 10, 015335.	0.6	4
34	Magnetotactic Bacteria Containing Phosphorus-Rich Inclusion Bodies. Microscopy and Microanalysis, 2011, 17, 140-141.	0.2	2
35	Localization of Native Mms13 to the Magnetosome Chain of Magnetospirillum magneticum AMB-1 Using Immunogold Electron Microscopy, Immunofluorescence Microscopy and Biochemical Analysis. Crystals, 2021, 11, 874.	1.0	2
36	Host blood proteins as bridging ligand in bacterial aggregation as well as anchor point for adhesion in the molecular pathogenesis of Staphylococcus aureus infections. Micron, 2021, 150, 103137.	1.1	2

#	Article	IF	Citations
37	Collection and Enrichment of Magnetotactic Bacteria from the Environment. , 2015, , 41-55.		1
38	A Bacterium's Sense of â€œTouchâ€• Materials Research Society Symposia Proceedings, 2007, 1063, 1.	0.1	0
39	Nanoscale Forces at the Heart of Staphylococcus Infections. Materials Research Society Symposia Proceedings, 2007, 1025, 1.	0.1	0
40	Force Spectroscopy of Mineral-Microbe Bonds. , 2011, , 301-315.		0
41	Force Spectroscopy of Mineral- Microbe Bonds. , 2019, , 301-316.		0