Dirk SchÃ¼ler

List of Publications by Year
in descending order

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150	10,945	23544	33869
papers	citations	58 h-index	99 g-index

161	161	161	4953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In vivo Architecture of the Polar Organizing Protein Z (PopZ) Meshwork in the Alphaproteobacteria Magnetospirillum gryphiswaldense and Caulobacter crescentus. Journal of Molecular Biology, 2022, 434, 167423.	2.0	2
2	A Magnetosome-Based Platform for Flow Biocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 22138-22150.	4.0	8
3	Towards standardized purification of bacterial magnetic nanoparticles for future in vivo applications. Acta Biomaterialia, 2021, 120, 293-303.	4.1	36
4	Torsional Magnetic Angle for Magnetospirillum gryphiswaldense. Series in Bioengineering, 2021, , 47-59.	0.3	0
5	Identification and elimination of genomic regions irrelevant for magnetosome biosynthesis by large-scale deletion in Magnetospirillum gryphiswaldense. BMC Microbiology, 2021, 21, 65.	1.3	8
6	Towards a 'chassis' for bacterial magnetosome biosynthesis: genome streamlining of Magnetospirillum gryphiswaldense by multiple deletions. Microbial Cell Factories, 2021, 20, 35.	1.9	16
7	Induction of Axonal Outgrowth in Mouse Hippocampal Neurons via Bacterial Magnetosomes. International Journal of Molecular Sciences, 2021, 22, 4126.	1.8	6
8	Sesbanimide R, a Novel Cytotoxic Polyketide Produced by Magnetotactic Bacteria. MBio, 2021, 12, .	1.8	2
9	Bacteriophageâ€Templated Assembly of Magnetic Nanoparticles and Their Actuation Potential. ChemNanoMat, 2021, 7, 942-949.	1.5	3
10	Highâ€Yield Production, Characterization, and Functionalization of Recombinant Magnetosomes in the Synthetic Bacterium Rhodospirillum rubrum â€œmagneticumâ€. Advanced Biology, 2021, 5, e2101017.	1.4	12
11	The Complex Transcriptional Landscape of Magnetosome Gene Clusters in Magnetospirillum gryphiswaldense. MSystems, 2021, 6, e0089321.	1.7	9
12	Biocompatibility, uptake and subcellular localization of bacterial magnetosomes in mammalian cells. Nanoscale Advances, 2021, 3, 3799-3815.	2.2	10
13	Quantifying the Benefit of a Dedicated â€œMagnetoskeletonâ€•in Bacterial Magnetotaxis by Live-Cell Motility Tracking and Soft Agar Swimming Assay. Applied and Environmental Microbiology, 2020, 86, .	1.4	9
14	Spatiotemporal Organization of Chemotaxis Pathways in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2020, 87, .	1.4	1
15	Magnetospirillum gryphiswaldense. Trends in Microbiology, 2020, 28, 947-948.	3.5	9
16	Genome-Wide Identification of Essential and Auxiliary Gene Sets for Magnetosome Biosynthesis in Magnetospirillum gryphiswaldense. MSystems, 2020, 5, .	1.7	14
17	An automated oxystat fermentation regime for microoxic cultivation of Magnetospirillum gryphiswaldense. Microbial Cell Factories, 2020, 19, 206.	1.9	14
18	A Compass To Boost Navigation: Cell Biology of Bacterial Magnetotaxis. Journal of Bacteriology, 2020, 202, .	1.0	23

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19	A Versatile Toolkit for Controllable and Highly Selective Multifunctionalization of Bacterial Magnetic Nanoparticles. Small, 2020, 16, e1906922.	5.2	34
20	Bacterial Magnetosomes as Novel Platform for the Presentation of Immunostimulatory, Membraneâ€Bound Ligands in Cellular Biotechnology. Advanced Biology, 2020, 4, e1900231.	3.0	12
21	Singleâ€step transfer of biosynthetic operons endows a nonâ€magnetotactic Magnetospirillum strain from wetland with magnetosome biosynthesis. Environmental Microbiology, 2020, 22, 1603-1618.	1.8	17
22	A bacterial cytolinker couples positioning of magnetic organelles to cell shape control. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32086-32097.	3.3	16
23	Biosynthesis and Intracellular Organization of Magnetosomes in Magnetotactic Bacteria. Microbiology Monographs, 2020, , 53-70.	0.3	4
24	Generation of nanomagnetic biocomposites by genetic engineering of bacterial magnetosomes. Bioinspired, Biomimetic and Nanobiomaterials, 2019, 8, 86-98.	0.7	17
25	A gradientâ€forming MipZ protein mediating the control of cell division in the magnetotactic bacterium MagnetospirillumÂgryphiswaldense. Molecular Microbiology, 2019, 112, 1423-1439.	1.2	12
26	MamY is a membrane-bound protein that aligns magnetosomes and the motility axis of helical magnetotactic bacteria. Nature Microbiology, 2019, 4, 1978-1989.	5.9	58
27	SEAP activity measurement in reporter cell-based assays using BCIP / NBT as substrate. Analytical Biochemistry, 2019, 585, 113402.	1.1	4
28	The Polar Organizing Protein PopZ Is Fundamental for Proper Cell Division and Segregation of Cellular Content in Magnetospirillum gryphiswaldense. MBio, 2019, 10, .	1.8	16
29	Numerical unmixing of weakly and strongly magnetic minerals: examples with synthetic mixtures of magnetite and hematite. Geophysical Journal International, 2019, 217, 280-287.	1.0	14
30	Probing the Nanostructure and Arrangement of Bacterial Magnetosomes by Small-Angle X-Ray Scattering. Applied and Environmental Microbiology, 2019, 85, .	1.4	10
31	Bacterioferritin of Magnetospirillum gryphiswaldense Is a Heterotetraeicosameric Complex Composed of Functionally Distinct Subunits but Is Not Involved in Magnetite Biomineralization. MBio, 2019, 10, .	1.8	17
32	The in vivo mechanics of the magnetotactic backbone as revealed by correlative FLIM-FRET and STED microscopy. Scientific Reports, 2019, 9, 19615.	1.6	7
33	In Vivo Coating of Bacterial Magnetic Nanoparticles by Magnetosome Expression of Spider Silk-Inspired Peptides. Biomacromolecules, 2018, 19, 962-972.	2.6	26
34	Reevaluation of the Complete Genome Sequence of Magnetospirillum gryphiswaldense MSR-1 with Single-Molecule Real-Time Sequencing Data. Genome Announcements, 2018, 6, .	0.8	15
35	A quantitative assessment of the membrane-integral sub-proteome of a bacterial magnetic organelle. Journal of Proteomics, 2018, 172, 89-99.	1.2	36
36	The dual role of MamB in magnetosome membrane assembly and magnetite biomineralization. Molecular Microbiology, 2018, 107, 542-557.	1.2	35

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37	Generation of Multifunctional Magnetic Nanoparticles with Amplified Catalytic Activities by Genetic Expression of Enzyme Arrays on Bacterial Magnetosomes. Advanced Biology, 2018, 2, 1700109.	3.0	24
38	Preparation of Bacterial Magnetosomes for Proteome Analysis. Methods in Molecular Biology, 2018, 1841, 45-57.	0.4	6
39	Precise Assembly of Genetically Functionalized Magnetosomes and Tobacco Mosaic Virus Particles Generates a Magnetic Biocomposite. ACS Applied Materials & Interfaces, 2018, 10, 37898-37910.	4.0	10
40	High-Throughput Microfluidic Sorting of Live Magnetotactic Bacteria. Applied and Environmental Microbiology, 2018, 84, .	1.4	12
41	Genetically Engineered Organization: Protein Template, Biological Recognition Sites, and Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1600285.	1.9	5
42	Genetic and Ultrastructural Analysis Reveals the Key Players and Initial Steps of Bacterial Magnetosome Membrane Biogenesis. PLoS Genetics, 2016, 12, e1006101.	1.5	51
43	Magnetosome biogenesis in magnetotactic bacteria. Nature Reviews Microbiology, 2016, 14, 621-637.	13.6	415
44	Segregation of prokaryotic magnetosomes organelles is driven by treadmilling of a dynamic actin-like MamK filament. BMC Biology, 2016, 14, 88.	1.7	48
45	Disease-Homologous Mutation in the Cation Diffusion Facilitator Protein MamM Causes Single-Domain Structural Loss and Signifies Its Importance. Scientific Reports, 2016, 6, 31933.	1.6	17
46	Overproduction of Magnetosomes by Genomic Amplification of Biosynthesis-Related Gene Clusters in a Magnetotactic Bacterium. Applied and Environmental Microbiology, 2016, 82, 3032-3041.	1.4	53
47	Magnetic guidance of the magnetotactic bacterium Magnetospirillum gryphiswaldense. Soft Matter, 2016, 12, 3631-3635.	1.2	9
48	Singleâ€cell genomics of uncultivated deepâ€branching magnetotactic bacteria reveals a conserved set of magnetosome genes. Environmental Microbiology, 2016, 18, 21-37.	1.8	115
49	Experimental mixtures of superparamagnetic and singleâ€domain magnetite with respect to Dayâ€Dunlop plots. Geochemistry, Geophysics, Geosystems, 2015, 16, 1739-1752.	1.0	20
50	Generation of Multishell Magnetic Hybrid Nanoparticles by Encapsulation of Genetically Engineered and Fluorescent Bacterial Magnetosomes with ZnO and SiO₂. Small, 2015, 11, 4209-4217.	5.2	24
51	Crystal structure of the magnetobacterial protein MtxA C-terminal domain reveals a new sequence-structure relationship. Frontiers in Molecular Biosciences, 2015, 2, 25.	1.6	2
52	An Intracellular Nanotrap Redirects Proteins and Organelles in Live Bacteria. MBio, 2015, 6, .	1.8	24
53	Biologically controlled synthesis and assembly of magnetite nanoparticles. Faraday Discussions, 2015, 181, 71-83.	1.6	34
54	Bacterial Magnetosome Biomineralization - A Novel Platform to Study Molecular Mechanisms of Human CDF-Related Type-II Diabetes. PLoS ONE, 2014, 9, e97154.	1.1	22

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55	Complete Genome Sequence of Magnetospirillum gryphiswaldense MSR-1. Genome Announcements, 2014, 2, .	0.8	27
56	Biosynthesis of magnetic nanostructures in a foreign organism by transfer of bacterial magnetosome gene clusters. Nature Nanotechnology, 2014, 9, 193-197.	15.6	198
57	The Terminal Oxidase cbb ₃ Functions in Redox Control of Magnetite Biomineralization in Magnetospirillum gryphiswaldense. Journal of Bacteriology, 2014, 196, 2552-2562.	1.0	35
58	The FtsZ-Like Protein FtsZm of Magnetospirillum gryphiswaldense Likely Interacts with Its Generic Homolog and Is Required for Biomineralization under Nitrate Deprivation. Journal of Bacteriology, 2014, 196, 650-659.	1.0	32
59	Polarity of bacterial magnetotaxis is controlled by aerotaxis through a common sensory pathway. Nature Communications, 2014, 5, 5398.	5.8	72
60	Distinguishing magnetic particle size of iron oxide nanoparticles with first-order reversal curves. Journal of Applied Physics, 2014, 116, .	1.1	47
61	Magnetic anisotropy of non-interacting collinear nanocrystal-chains. Applied Physics Letters, 2014, 104, .	1.5	22
62	A Tailored galK Counterselection System for Efficient Markerless Gene Deletion and Chromosomal Tagging in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2014, 80, 4323-4330.	1.4	38
63	The oxygen sensor MgFnr controls magnetite biomineralization by regulation of denitrification in Magnetospirillum gryphiswaldense. BMC Microbiology, 2014, 14, 153.	1.3	29
64	Singleâ€cell genomics reveals potential for magnetite and greigite biomineralization in an uncultivated multicellular magnetotactic prokaryote. Environmental Microbiology Reports, 2014, 6, 524-531.	1.0	38
65	Probing the Mechanical Properties of Magnetosome Chains in Living Magnetotactic Bacteria. Nano Letters, 2014, 14, 4653-4659.	4.5	34
66	New Vectors for Chromosomal Integration Enable High-Level Constitutive or Inducible Magnetosome Expression of Fusion Proteins in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2014, 80, 2609-2616.	1.4	46
67	Genetic Dissection of the mamAB and mms6 Operons Reveals a Gene Set Essential for Magnetosome Biogenesis in Magnetospirillum gryphiswaldense. Journal of Bacteriology, 2014, 196, 2658-2669.	1.0	110
68	Cation Diffusion Facilitators Transport Initiation and Regulation Is Mediated by Cation Induced Conformational Changes of the Cytoplasmic Domain. PLoS ONE, 2014, 9, e92141.	1.1	41
69	The magnetosome proteins <scp>MamX</scp>, <scp>MamZ</scp> and <scp>MamH</scp> are involved in redox control of magnetite biomineralization in <scp>M</scp>agnetospirillum gryphiswaldense. Molecular Microbiology, 2013, 89, 872-886.	1.2	79
70	Analysis of Magnetosome Chains in Magnetotactic Bacteria by Magnetic Measurements and Automated Image Analysis of Electron Micrographs. Applied and Environmental Microbiology, 2013, 79, 7755-7762.	1.4	34
71	Bioengineered bioluminescent magnetotactic bacteria as a powerful tool for chip-based whole-cell biosensors. Lab on A Chip, 2013, 13, 4881.	3.1	62
72	Monophyletic origin of magnetotaxis and the first magnetosomes. Environmental Microbiology, 2013, 15, 2267-2274.	1.8	102

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73	Comparative genomic analysis of magnetotactic bacteria from the <scp>D</scp>eltaproteobacteria provides new insights into magnetite and greigite magnetosome genes required for magnetotaxis. Environmental Microbiology, 2013, 15, 2712-2735.	1.8	99
74	Clone libraries and single cell genome amplification reveal extended diversity of uncultivated magnetotactic bacteria from marine and freshwater environments. Environmental Microbiology, 2013, 15, 1290-1301.	1.8	31
75	Magnetotactic Bacteria. , 2013, , 453-494.		51
76	Cytochrome cd1 Nitrite Reductase NirS Is Involved in Anaerobic Magnetite Biomineralization in Magnetospirillum gryphiswaldense and Requires NirN for Proper d1 Heme Assembly. Journal of Bacteriology, 2013, 195, 4297-4309.	1.0	48
77	The MagA Protein of Magnetospirilla Is Not Involved in Bacterial Magnetite Biomineralization. Journal of Bacteriology, 2012, 194, 1018-1023.	1.0	30
78	Insight into the Evolution of Magnetotaxis in Magnetospirillum spp., Based on mam Gene Phylogeny. Applied and Environmental Microbiology, 2012, 78, 7238-7248.	1.4	52
79	The Periplasmic Nitrate Reductase Nap Is Required for Anaerobic Growth and Involved in Redox Control of Magnetite Biomineralization in Magnetospirillum gryphiswaldense. Journal of Bacteriology, 2012, 194, 4847-4856.	1.0	95
80	Singleâ€cell analysis reveals a novel uncultivated magnetotactic bacterium within the candidate division OP3. Environmental Microbiology, 2012, 14, 1709-1721.	1.8	121
81	Conservation of proteobacterial magnetosome genes and structures in an uncultivated member of the deep-branchingNitrospiraphylum. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1134-1139.	3.3	115
82	Frequent Mutations within the Genomic Magnetosome Island of Magnetospirillum gryphiswaldense Are Mediated by RecA. Journal of Bacteriology, 2011, 193, 5328-5334.	1.0	31
83	Metagenomic Analysis Reveals Unexpected Subgenomic Diversity of Magnetotactic Bacteria within the Phylum Nitrospirae. Applied and Environmental Microbiology, 2011, 77, 323-326.	1.4	42
84	The cation diffusion facilitator proteins MamB and MamM of Magnetospirillum gryphiswaldense have distinct and complex functions, and are involved in magnetite biomineralization and magnetosome membrane assembly. Molecular Microbiology, 2011, 82, 818-835.	1.2	125
85	Magnetosome chains are recruited to cellular division sites and split by asymmetric septation. Molecular Microbiology, 2011, 82, 1316-1329.	1.2	80
86	Magnetic properties of single biogenic magnetite nanoparticles. Journal of Nanoparticle Research, 2011, 13, 3345-3352.	0.8	16
87	Examination of magnetite nanoparticles utilising the temperature dependent magnetorelaxometry. Journal of Magnetism and Magnetic Materials, 2011, 323, 1179-1184.	1.0	8
88	Magnetosome Expression of Functional Camelid Antibody Fragments (Nanobodies) in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2011, 77, 6165-6171.	1.4	63
89	Functional Analysis of the Magnetosome Island in Magnetospirillum gryphiswaldense: The mamAB Operon Is Sufficient for Magnetite Biomineralization. PLoS ONE, 2011, 6, e25561.	1.1	155
90	Loss of the actinâ€like protein MamK has pleiotropic effects on magnetosome formation and chain assembly in Magnetospirillum gryphiswaldense. Molecular Microbiology, 2010, 77, 208-224.	1.2	143

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91	Cultivationâ€independent characterization of â€˜Candidatus Magnetobacterium bavaricumâ€™ via ultrastructural, geochemical, ecological and metagenomic methods. Environmental Microbiology, 2010, 12, 2466-2478.	1.8	69
92	Cre- lox -Based Method for Generation of Large Deletions within the Genomic Magnetosome Island of Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2010, 76, 2439-2444.	1.4	43
93	Deletion of a fur -Like Gene Affects Iron Homeostasis and Magnetosome Formation in Magnetospirillum gryphiswaldense. Journal of Bacteriology, 2010, 192, 4192-4204.	1.0	64
94	In Vivo Display of a Multisubunit Enzyme Complex on Biogenic Magnetic Nanoparticles. Applied and Environmental Microbiology, 2009, 75, 7734-7738.	1.4	31
95	Diversity analysis of magnetotactic bacteria in Lake Miyun, northern China, by restriction fragment length polymorphism. Systematic and Applied Microbiology, 2009, 32, 342-350.	1.2	58
96	Comparative analysis of magnetosome gene clusters in magnetotactic bacteria provides further evidence for horizontal gene transfer. Environmental Microbiology, 2009, 11, 1267-1277.	1.8	96
97	Ultrastructure, tactic behaviour and potential for sulfate reduction of a novel multicellular magnetotactic prokaryote from North Sea sediments. Environmental Microbiology, 2009, 11, 1493-1505.	1.8	91
98	Genomics, Genetics, and Cell Biology of Magnetosome Formation. Annual Review of Microbiology, 2009, 63, 501-521.	2.9	185
99	Identification of Promoters for Efficient Gene Expression inMagnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2009, 75, 4206-4210.	1.4	16
100	Complete Genome Sequence of the Chemolithoautotrophic Marine Magnetotactic Coccus Strain MC-1. Applied and Environmental Microbiology, 2009, 75, 4835-4852.	1.4	114
101	Toward Cloning of the Magnetotactic Metagenome: Identification of Magnetosome Island Gene Clusters in Uncultivated Magnetotactic Bacteria from Different Aquatic Sediments. Applied and Environmental Microbiology, 2009, 75, 3972-3979.	1.4	96
102	Genetics and cell biology of magnetosome formation in magnetotactic bacteria. FEMS Microbiology Reviews, 2008, 32, 654-672.	3.9	196
103	Magnetotactic Bacteria and Magnetosomes. Chemical Reviews, 2008, 108, 4875-4898.	23.0	734
104	The Major Magnetosome Proteins MamGFDC Are Not Essential for Magnetite Biomineralization inMagnetospirillum gryphiswaldensebut Regulate the Size of Magnetosome Crystals. Journal of Bacteriology, 2008, 190, 377-386.	1.0	182
105	Expression of Green Fluorescent Protein Fused to Magnetosome Proteins in Microaerophilic Magnetotactic Bacteria. Applied and Environmental Microbiology, 2008, 74, 4944-4953.	1.4	91
106	Environmental parameters affect the physical properties of fast-growing magnetosomes. American Mineralogist, 2008, 93, 463-469.	0.9	90
107	Cation site occupancy of biogenic magnetite compared to polygenic ferrite spinels determined by X-ray magnetic circular dichroism. European Journal of Mineralogy, 2007, 19, 707-716.	0.4	51
108	The Acidic Repetitive Domain of the Magnetospirillum gryphiswaldense MamJ Protein Displays Hypervariability but Is Not Required for Magnetosome Chain Assembly. Journal of Bacteriology, 2007, 189, 6437-6446.	1.0	92

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109	Fluorescent Bacterial Magnetic Nanoparticles as Bimodal Contrast Agents. Investigative Radiology, 2007, 42, 235-241.	3.5	67
110	Comparative Genome Analysis of Four Magnetotactic Bacteria Reveals a Complex Set of Group-Specific Genes Implicated in Magnetosome Biomineralization and Function. Journal of Bacteriology, 2007, 189, 4899-4910.	1.0	159
111	Intracellular Magnetite Biomineralization in Bacteria Proceeds by a Distinct Pathway Involving Membraneâ€Bound Ferritin and an Iron(II) Species. Angewandte Chemie - International Edition, 2007, 46, 8495-8499.	7.2	126
112	Synthesis of Magnetite Nanoparticles for Bio- and Nanotechnology: Genetic Engineering and Biomimetics of Bacterial Magnetosomes. Macromolecular Bioscience, 2007, 7, 144-151.	2.1	168
113	Labeling of macrophages using bacterial magnetosomes and their characterization by magnetic resonance imaging. Journal of Magnetism and Magnetic Materials, 2007, 311, 454-459.	1.0	23
114	Transcriptional Organization and Regulation of Magnetosome Operons in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2006, 72, 5757-5765.	1.4	71
115	Biogenic nanoparticles: production, characterization, and application of bacterial magnetosomes. Journal of Physics Condensed Matter, 2006, 18, S2815-S2828.	0.7	92
116	Properties of intracellular magnetite crystals produced by Desulfovibrio magneticus strain RS-1. Earth and Planetary Science Letters, 2006, 249, 444-455.	1.8	92
117	Semisynthetic Biogenic Magnetosome Nanoparticles for the Detection of Proteins and Nucleic Acids. Small, 2006, 2, 1251-1255.	5.2	54
118	An acidic protein aligns magnetosomes along a filamentous structure in magnetotactic bacteria. Nature, 2006, 440, 110-114.	13.7	486
119	Evaluation of gene expression analysis using RNA-targeted partial genome arrays. Systematic and Applied Microbiology, 2006, 29, 349-357.	1.2	10
120	Magnetosomes in Magnetotactic Bacteria. Microbiology Monographs, 2006, , 167-191.	0.3	6
121	Genetic Analysis of Magnetosome Biomineralization. , 2006, , 133-161.		22
122	Diversity and Taxonomy of Magnetotactic Bacteria. , 2006, , 25-36.		44
123	Blocking of magnetic moments of magnetosomes measured by magnetorelaxometry and direct observation by magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 2005, 289, 70-73.	1.0	19
124	Diversity and vertical distribution of magnetotactic bacteria along chemical gradients in freshwater microcosms. FEMS Microbiology Ecology, 2005, 52, 185-195.	1.3	127
125	Magnetic properties of bacterial magnetosomes as potential diagnostic and therapeutic tools. Journal of Magnetism and Magnetic Materials, 2005, 293, 80-86.	1.0	293
126	The Presumptive Magnetosome Protein Mms16 Is a Poly(3-Hydroxybutyrate) Granule-Bound Protein (Phasin) in Magnetospirillum gryphiswaldense. Journal of Bacteriology, 2005, 187, 2416-2425.	1.0	64

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127	Combined Approach for Characterization of Uncultivated Magnetotactic Bacteria from Various Aquatic Environments. Applied and Environmental Microbiology, 2005, 71, 2723-2731.	1.4	125
128	Crystal-size and shape distributions of magnetite from uncultured magnetotactic bacteria as a potential biomarker. American Mineralogist, 2005, 90, 1233-1240.	0.9	61
129	Phylogeny and In Situ Identification of Magnetotactic Bacteria. , 2005, , 45-60.		1
130	Biochemical and Genetic Analysis of the Magnetosome Membrane in Magnetospirillum gryphiswaldense. , 2005, , 61-73.		2
131	A Hypervariable 130-Kilobase Genomic Region of Magnetospirillum gryphiswaldense Comprises a Magnetosome Island Which Undergoes Frequent Rearrangements during Stationary Growth. Journal of Bacteriology, 2005, 187, 7176-7184.	1.0	235
132	Biochemical and Proteomic Analysis of the Magnetosome Membrane in Magnetospirillum gryphiswaldense. Applied and Environmental Microbiology, 2004, 70, 1040-1050.	1.4	318
133	Inactivation of the Flagellin Gene flaA in Magnetospirillum gryphiswaldense Results in Nonmagnetotactic Mutants Lacking Flagellar Filaments. Applied and Environmental Microbiology, 2004, 70, 3624-3631.	1.4	54
134	Unraveling the Function of the Rhodospirillum rubrum Activator of Polyhydroxybutyrate (PHB) Degradation: the Activator Is a PHB-Granule-Bound Protein (Phasin). Journal of Bacteriology, 2004, 186, 2466-2475.	1.0	77
135	Molecular analysis of a subcellular compartment: the magnetosome membrane in Magnetospirillum gryphiswaldense. Archives of Microbiology, 2004, 181, 1-7.	1.0	114
136	Nanostructure and field-induced arrangement of magnetosomes studied by SANSPOL. Physica B: Condensed Matter, 2004, 350, E309-E313.	1.3	38
137	Development of a genetic system for Magnetospirillum gryphiswaldense. Archives of Microbiology, 2003, 179, 89-94.	1.0	117
138	Characterization of a Spontaneous Nonmagnetic Mutant of Magnetospirillum gryphiswaldense Reveals a Large Deletion Comprising a Putative Magnetosome Island. Journal of Bacteriology, 2003, 185, 5779-5790.	1.0	200
139	The biomineralization of magnetosomes in Magnetospirillum gryphiswaldense. International Microbiology, 2002, 5, 209-214.	1.1	118
140	A Large Gene Cluster Encoding Several Magnetosome Proteins Is Conserved in Different Species of Magnetotactic Bacteria. Applied and Environmental Microbiology, 2001, 67, 4573-4582.	1.4	269
141	N2-dependent growth and nitrogenase activity in the metal-metabolizing bacteria, Geobacter and Magnetospirillum species. Environmental Microbiology, 2000, 2, 266-273.	1.8	106
142	Bacterial magnetosomes: microbiology, biomineralization and biotechnological applications. Applied Microbiology and Biotechnology, 1999, 52, 464-473.	1.7	299
143	Improved Technique for the Isolation of Magnetotactic Spirilla from a Freshwater Sediment and their Phylogenetic Characterization. Systematic and Applied Microbiology, 1999, 22, 466-471.	1.2	72
144	Biomineralization of magnetic iron minerals in bacteria. Supramolecular Science, 1998, 5, 383-390.	0.7	63

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145	Iron-limited growth and kinetics of iron uptake in Magnetospirillum gryphiswaldense. Archives of Microbiology, 1996, 166, 301-307.	1.0	141
146	A simple light scattering method to assay magnetism inMagnetospirillum gryphiswaldense. FEMS Microbiology Letters, 1995, 132, 139-145.	0.7	149
147	Phylogenetic Analysis of Uncultured Magnetotactic Bacteria from the Alpha-Subclass of Proteobacteria. Systematic and Applied Microbiology, 1995, 17, 501-508.	1.2	70
148	A simple light scattering method to assay magnetism in Magnetospirillum gryphiswaldense. FEMS Microbiology Letters, 1995, 132, 139-145.	0.7	8
149	Determination of the Concentration of Magnetotactic Bacteria by Means of Susceptibility Measurements. Japanese Journal of Applied Physics, 1993, 32, 252-260.	0.8	14
150	The Genus Magnetospirillum gen. nov. Description of Magnetospirillum gryphiswaldense sp. nov. and Transfer of Aquaspirillum magnetotacticum to Magnetospirillum magnetotacticum comb. nov.. Systematic and Applied Microbiology, 1991, 14, 379-385.	1.2	265