Fernanda Abreu

List of Publications by Year
in descending order

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57 papers	2,139 citations	293460 24 h-index	274796 44 g-index
60 all docs	60 docs citations	60 times ranked	1560 citing authors

#	Article	IF	Citations
1	A rapid and simple preparation of amphotericin B-loaded bacterial magnetite nanoparticles. RSC Advances, 2021, 11, 28000-28007.	1.7	4
2	Multicellularity makes the difference: multicellular magnetotactic prokaryotes have dynamic motion parameters dependent on the magnetic field intensity. European Physical Journal Plus, 2021, 136, 1.	1.2	1
3	Why Does Not Nanotechnology Go Green? Bioprocess Simulation and Economics for Bacterial-Origin Magnetite Nanoparticles. Frontiers in Microbiology, 2021, 12, 718232.	1.5	6
4	Increased biofilm formation by Staphylococcus aureus clinical isolates on surfaces covered with plasma proteins. Journal of Medical Microbiology, 2021, 70, .	0.7	3
5	Occurrence of south- and north-seeking multicellular magnetotactic prokaryotes in a coastal lagoon in the South Hemisphere. International Microbiology, 2021, , 1.	1.1	0
6	New Phenotype and Mineralization of Biogenic Iron Oxide in Magnetotactic Bacteria. Nanomaterials, 2021, 11, 3189.	1.9	4
7	Release the iron: does the infection of magnetotactic bacteria by phages play a role in making iron available in aquatic environments?. Journal of Oceanology and Limnology, 2021, 39, 2063-2069.	0.6	3
8	Magnetosome magnetite biomineralization in a flagellated protist: evidence for an early evolutionary origin for magnetoreception in eukaryotes. Environmental Microbiology, 2020, 22, 1495-1506.	1.8	21
9	The swimming orientation of multicellular magnetotactic prokaryotes and uncultured magnetotactic cocci in magnetic fields similar to the geomagnetic field reveals differences in magnetotaxis between them. Antonie Van Leeuwenhoek, 2020, 113, 197-209.	0.7	7
10	Presence of biogenic magnetite in ferromanganese nodules. Environmental Microbiology Reports, 2020, 12, 288-295.	1.0	11
11	Biology and Physics of Magnetotactic Bacteria. , 2020, , .		5
12	Antarctic microorganisms as sources of biotechnological products. , 2020, , 269-284.		6
13	Insight on thermal stability of magnetite magnetosomes: implications for the fossil record and biotechnology. Scientific Reports, 2020, 10, 6706.	1.6	6
14	U-turn trajectories of magnetotactic cocci allow the study of the correlation between their magnetic moment, volume and velocity. European Biophysics Journal, 2019, 48, 513-521.	1.2	3
15	Uptake and persistence of bacterial magnetite magnetosomes in a mammalian cell line: Implications for medical and biotechnological applications. PLoS ONE, 2019, 14, e0215657.	1.1	24
16	Diagenetic Fate of Biogenic Soft and Hard Magnetite in Chemically Stratified Sedimentary Environments of MamanguÃ¡ RÃa, Brazil. Journal of Geophysical Research: Solid Earth, 2019, 124, 2313-2330.	1.4	27
17	Fingerprints of partial oxidation of biogenic magnetite from cultivated and natural marine magnetotactic bacteria using synchrotron radiation. Environmental Microbiology Reports, 2018, 10, 337-343.	1.0	14
18	X-ray Absorption Spectroscopy and Magnetism of Synthetic Greigite and Greigite Magnetosomes in Magnetotactic Bacteria. Geomicrobiology Journal, 2018, 35, 215-226.	1.0	6

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19	Magnetotaxis â˜†. , 2018, , .		1
20	Applications of Magnetotactic Bacteria, Magnetosomes and Magnetosome Crystals in Biotechnology and Nanotechnology: Mini-Review. Molecules, 2018, 23, 2438.	1.7	114
21	Cultureâ€independent characterization of a novel magnetotactic member affiliated to the <i>Beta</i> class of the <i>Proteobacteria</i> phylum from an acidic lagoon. Environmental Microbiology, 2018, 20, 2615-2624.	1.8	19
22	Effects of combined magnetic fields on bacteria <i>Rhodospirillum rubrum</i> VKM Bâ€•1621. Bioelectromagnetics, 2018, 39, 485-490.	0.9	13
23	Association of magnetotactic multicellular prokaryotes with Pseudoalteromonas species in a natural lagoon environment. Antonie Van Leeuwenhoek, 2018, 111, 2213-2223.	0.7	4
24	Ultrastructure of ellipsoidal magnetotactic multicellular prokaryotes depicts their complex assemblage and cellular polarity in the context of magnetotaxis. Environmental Microbiology, 2017, 19, 2151-2163.	1.8	22
25	Cultureâ€independent characterization of novel psychrophilic magnetotactic cocci from Antarctic marine sediments. Environmental Microbiology, 2016, 18, 4426-4441.	1.8	35
26	North-Seeking Magnetotactic Gammaproteobacteria in the Southern Hemisphere. Applied and Environmental Microbiology, 2016, 82, 5595-5602.	1.4	19
27	Draft Genome Sequence of Magnetovibrio blakemorei Strain MV-1, a Marine Vibrioid Magnetotactic Bacterium. Genome Announcements, 2016, 4, .	0.8	21
28	Combined genomic and structural analyses of a cultured magnetotactic bacterium reveals its niche adaptation to a dynamic environment. BMC Genomics, 2016, 17, 726.	1.2	18
29	Magnetotactic Bacteria as Potential Sources of Bioproducts. Marine Drugs, 2015, 13, 389-430.	2.2	71
30	Isolation, cultivation and genomic analysis of magnetosome biomineralization genes of a new genus of South-seeking magnetotactic cocci within the Alphaproteobacteria. Frontiers in Microbiology, 2014, 5, 72.	1.5	47
31	Golgi UDP-GlcNAc:Polypeptide O -Î±- N -Acetyl- d -Glucosaminyltransferase 2 (TcOGNT2) Regulates Trypomastigote Production and Function in Trypanosoma cruzi. Eukaryotic Cell, 2014, 13, 1312-1327.	3.4	12
32	Deciphering unusual uncultured magnetotactic multicellular prokaryotes through genomics. ISME Journal, 2014, 8, 1055-1068.	4.4	42
33	Cryo-electron tomography of the magnetotactic vibrio Magnetovibrio blakemorei: Insights into the biomineralization of prismatic magnetosomes. Journal of Structural Biology, 2013, 181, 162-168.	1.3	22
34	Antimicrobial action and anti-corrosion effect against sulfate reducing bacteria by lemongrass (Cymbopogon citratus) essential oil and its major component, the citral. AMB Express, 2013, 3, 44.	1.4	57
35	Optimization of Magnetosome Production and Growth by the Magnetotactic Vibrio Magnetovibrio blakemorei Strain MV-1 through a Statistics-Based Experimental Design. Applied and Environmental Microbiology, 2013, 79, 2823-2827.	1.4	36
36	Monophyletic origin of magnetotaxis and the first magnetosomes. Environmental Microbiology, 2013, 15, 2267-2274.	1.8	102

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37	Comparative genomic analysis of magnetotactic bacteria from the <i><scp>D</scp>eltaproteobacteria</i> provides new insights into magnetite and greigite magnetosome genes required for magnetotaxis. Environmental Microbiology, 2013, 15, 2712-2735.	1.8	99
38	Streptomyces lunalinharesiiStrain 235 Shows the Potential to Inhibit Bacteria Involved in Biocorrosion Processes. BioMed Research International, 2013, 2013, 1-10.	0.9	9
39	Cell Adhesion, Multicellular Morphology, and Magnetosome Distribution in the Multicellular Magnetotactic Prokaryote <i>Candidatus</i> Magnetoglobus multicellularis. Microscopy and Microanalysis, 2013, 19, 535-543.	0.2	21
40	Purification and characterization of a surfactin-like molecule produced by Bacillus sp. H2O-1 and its antagonistic effect against sulfate reducing bacteria. BMC Microbiology, 2012, 12, 252.	1.3	55
41	Spatiotemporal distribution of the magnetotactic multicellular prokaryote Candidatus Magnetoglobus multicellularis in a Brazilian hypersaline lagoon and in microcosms. International Microbiology, 2012, 15, 141-9.	1.1	20
42	Rhamnolipid and surfactin inhibit Listeria monocytogenes adhesion. Food Research International, 2011, 44, 481-488.	2.9	72
43	Morphological features of elongated-anisotropic magnetosome crystals in magnetotactic bacteria of the Nitrospirae phylum and the Deltaproteobacteria class. Earth and Planetary Science Letters, 2011, 312, 194-200.	1.8	65
44	Cultureâ€independent characterization of a novel, uncultivated magnetotactic member of the<i>Nitrospirae</i>phylum. Environmental Microbiology, 2011, 13, 538-549.	1.8	93
45	Common ancestry of iron oxide- and iron-sulfide-based biomineralization in magnetotactic bacteria. ISME Journal, 2011, 5, 1634-1640.	4.4	89
46	A Cultured Greigite-Producing Magnetotactic Bacterium in a Novel Group of Sulfate-Reducing Bacteria. Science, 2011, 334, 1720-1723.	6.0	184
47	A Bacterial Backbone: Magnetosomes in Magnetotactic Bacteria. , 2011, , 75-102.		16
48	Moderately Thermophilic Magnetotactic Bacteria from Hot Springs in Nevada. Applied and Environmental Microbiology, 2010, 76, 3740-3743.	1.4	127
49	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
50	Magnetosome chain superstructure in uncultured magnetotactic bacteria. Physical Biology, 2010, 7, 046016.	0.8	15
51	Ultrastructure and cytochemistry of lipid granules in the many-celled magnetotactic prokaryote, â€˜Candidatus Magnetoglobus multicellularisâ€™. Micron, 2008, 39, 1387-1392.	1.1	15
52	â€˜Candidatus Magnetoglobus multicellularisâ€™, a multicellular, magnetotactic prokaryote from a hypersaline environment. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 1318-1322.	0.8	131
53	Flagellar apparatus of south-seeking many-celled magnetotactic prokaryotes. Microscopy Research and Technique, 2007, 70, 10-17.	1.2	30
54	Grazing protozoa and magnetosome dissolution in magnetotactic bacteria. Environmental Microbiology, 2007, 9, 2775-2781.	1.8	29

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55	Cell viability in magnetotactic multicellular prokaryotes. International Microbiology, 2006, 9, 267-72.	1.1	26
56	Multicellular life cycle of magnetotactic prokaryotes. FEMS Microbiology Letters, 2004, 240, 203-208.	0.7	90
57	Cell organization and ultrastructure of a magnetotactic multicellular organism. Journal of Structural Biology, 2004, 145, 254-262.	1.3	80