

Sarah S Staniland

List of Publications by Year in descending order

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39
papers

1,071
citations

471509

17
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414414

32
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docs citations

39
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled formation of magnetite crystal by partial oxidation of ferrous hydroxide in the presence of recombinant magnetotactic bacterial protein Mms6. <i>Biomaterials</i> , 2007, 28, 5381-5389.	11.4	241
2	Rapid magnetosome formation shown by real-time x-ray magnetic circular dichroism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19524-19528.	7.1	97
3	Magnetic bacterial protein Mms6 controls morphology, crystallinity and magnetism of cobalt-doped magnetite nanoparticles in vitro. <i>Journal of Materials Chemistry</i> , 2011, 21, 15244.	6.7	63
4	Protein and peptide biotemplated metal and metal oxide nanoparticles and their patterning onto surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 12423.	6.7	61
5	Self-assembled MmsF proteinosomes control magnetite nanoparticle formation in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16094-16099.	7.1	54
6	Crystallizing the function of the magnetosome membrane mineralization protein Mms6. <i>Biochemical Society Transactions</i> , 2016, 44, 883-890.	3.4	50
7	Ferrous Iron Binding Key to Mms6 Magnetite Biomineralisation: A Mechanistic Study to Understand Magnetite Formation Using pH Titration and NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2016, 22, 7885-7894.	3.3	41
8	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. <i>Journal of Materials Chemistry</i> , 2012, 22, 11919.	6.7	40
9	Innovation through imitation: biomimetic, bioinspired and biokleptic research. <i>Soft Matter</i> , 2012, 8, 6675.	2.7	40
10	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3886-3891.	3.1	34
11	Taking a hard line with biotemplating: cobalt-doped magnetite magnetic nanoparticle arrays. <i>Nanoscale</i> , 2015, 7, 7340-7351.	5.6	33
12	Phage display selected magnetite interacting Adhirons for shape controlled nanoparticle synthesis. <i>Chemical Science</i> , 2015, 6, 5586-5594.	7.4	32
13	Using a biomimetic membrane surface experiment to investigate the activity of the magnetite biomineralisation protein Mms6. <i>RSC Advances</i> , 2016, 6, 7356-7363.	3.6	32
14	Cell division in magnetotactic bacteria splits magnetosome chain in half. <i>Journal of Basic Microbiology</i> , 2010, 50, 392-396.	3.3	28
15	Charge Modified Cowpea Mosaic Virus Particles for Templated Mineralization. <i>Advanced Functional Materials</i> , 2011, 21, 4137-4142.	14.9	28
16	Artificial coiled coil biomineralisation protein for the synthesis of magnetic nanoparticles. <i>Nature Communications</i> , 2019, 10, 2873.	12.8	26
17	Iron Uptake Kinetics and Magnetosome Formation by <i>Magnetospirillum gryphiswaldense</i> as a Function of pH, Temperature and Dissolved Iron Availability. <i>Geomicrobiology Journal</i> , 2011, 28, 590-600.	2.0	18
18	In situ formation of magnetopolymersomes via electroporation for MRI. <i>Scientific Reports</i> , 2015, 5, 14311.	3.3	18

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19	Biopolymer Stabilization/Solidification of Soils: A Rapid, Micro-Macro, Cross-Disciplinary Approach. <i>Environmental Science & Technology</i> , 2020, 54, 13963-13972.	10.0	18
20	Sustainable biopolymer soil stabilization in saline rich, arid conditions: a "micro to macro" approach. <i>Scientific Reports</i> , 2022, 12, 2880.	3.3	17
21	A biomimetic magnetosome: formation of iron oxide within carboxylic acid terminated polymersomes. <i>Nanoscale</i> , 2019, 11, 11617-11625.	5.6	14
22	Enhanced Tubulation of Liposome Containing Cardiolipin by MamY Protein from Magnetotactic Bacteria. <i>Biotechnology Journal</i> , 2018, 13, 1800087.	3.5	12
23	Macrofluidic Coaxial Flow Platforms to Produce Tunable Magnetite Nanoparticles: A Study of the Effect of Reaction Conditions and Biomineralisation Protein Mms6. <i>Nanomaterials</i> , 2019, 9, 1729.	4.1	12
24	Nanobugs as Drugs: Bacterial Derived Nanomagnets Enhance Tumor Targeting and Oncolytic Activity of HSV-1 Virus. <i>Small</i> , 2022, 18, e2104763.	10.0	12
25	Magnetosomes and Magnetosome Mimics: Preparation, Cancer Cell Uptake and Functionalization for Future Cancer Therapies. <i>Pharmaceutics</i> , 2021, 13, 367.	4.5	11
26	Investigating the ferric ion binding site of magnetite biomineralisation protein Mms6. <i>PLoS ONE</i> , 2020, 15, e0228708.	2.5	10
27	Manufacturing Man-Made Magnetosomes: High-Throughput In Situ Synthesis of Biomimetic Magnetite Loaded Nanovesicles. <i>Macromolecular Bioscience</i> , 2016, 16, 1555-1561.	4.1	8
28	Ethylenediamine series as additives to control the morphology of magnetite nanoparticles. <i>Green Chemistry</i> , 2021, 23, 5724-5735.	9.0	8
29	Synthesis of ABA Tri-Block Co-Polymer Magnetopolymersomes via Electroporation for Potential Medical Application. <i>Polymers</i> , 2015, 7, 2558-2571.	4.5	5
30	Rational Design and Self-Assembly of Coiled-Coil Linked SasG Protein Fibrils. <i>ACS Synthetic Biology</i> , 2020, 9, 1599-1607.	3.8	3
31	Reply to the "Comment on "Innovation through imitation: Biomimetic, bioinspired and biokleptic research" by M. Drack and I. C. Gebeshuber, <i>Soft Matter</i> , 2013, 9, DOI: 10.1039/c2sm26722e. <i>Soft Matter</i> , 2013, 9, 2341.	2.7	2
32	Nanoparticle Arrays: Biotemplated Magnetic Nanoparticle Arrays (<i>Small</i> 2/2012). <i>Small</i> , 2012, 8, 203-203.	10.0	1
33	Macromol. Biosci. 11/2016. <i>Macromolecular Bioscience</i> , 2016, 16, 1736-1736.	4.1	1
34	Systematic Screening and Deep Analysis of CoPt Binding Peptides Leads to Enhanced CoPt Nanoparticles Using Designed Peptides. <i>Bioconjugate Chemistry</i> , 2020, 31, 1981-1994.	3.6	1
35	Protein and Peptide-Mediated Synthesis of Magnetic Nanoparticles and Arrays for Biomedicine and Future Data Storage. , 2018, , 95-133.		0
36	Investigating the ferric ion binding site of magnetite biomineralisation protein Mms6. , 2020, 15, e0228708.		0

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37	Investigating the ferric ion binding site of magnetite biomineralisation protein Mms6. , 2020, 15, e0228708.		0
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39	Investigating the ferric ion binding site of magnetite biomineralisation protein Mms6. , 2020, 15, e0228708.		0