Sarah M Strycharz

List of Publications by Year
in descending order

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49 papers	2,635 citations	279701 23 h-index	223716 46 g-index
53 all docs	53 docs citations	53 times ranked	2038 citing authors

#	Article	IF	Citations
1	On the electrical conductivity of microbial nanowires and biofilms. Energy and Environmental Science, 2011, 4, 4366.	15.6	272
2	Graphite Electrode as a Sole Electron Donor for Reductive Dechlorination of Tetrachlorethene by Geobacter lovleyi. Applied and Environmental Microbiology, 2008, 74, 5943-5947.	1.4	240
3	Long-range electron transport in Geobacter sulfurreducens biofilms is redox gradient-driven. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15467-15472.	3.3	231
4	Gene expression and deletion analysis of mechanisms for electron transfer from electrodes to Geobacter sulfurreducens. Bioelectrochemistry, 2011, 80, 142-150.	2.4	184
5	On Electron Transport through Geobacter Biofilms. ChemSusChem, 2012, 5, 1099-1105.	3.6	184
6	Application of cyclic voltammetry to investigate enhanced catalytic current generation by biofilm-modified anodes of Geobacter sulfurreducens strain DL1vs. variant strain KN400. Energy and Environmental Science, 2011, 4, 896-913.	15.6	183
7	Reductive dechlorination of 2â€chlorophenol by Anaeromyxobacter dehalogenans with an electrode serving as the electron donor. Environmental Microbiology Reports, 2010, 2, 289-294.	1.0	126
8	Thermally activated long range electron transport in living biofilms. Physical Chemistry Chemical Physics, 2015, 17, 32564-32570.	1.3	108
9	Measuring conductivity of living Geobacter sulfurreducens biofilms. Nature Nanotechnology, 2016, 11, 910-913.	15.6	99
10	Reply to the â€˜Comment on â€œOn electrical conductivity of microbial nanowires and biofilmsâ€â€™ by N. S. Malvankar, M. T. Tuominen and D. R. Lovley, Energy Environ. Sci., 2012, 5, DOI: 10.1039/c2ee02613a. Energy and Environmental Science, 2012, 5, 6250.	15.6	89
11	A Previously Uncharacterized, Nonphotosynthetic Member of the Chromatiaceae Is the Primary CO ₂ -Fixing Constituent in a Self-Regenerating Biocathode. Applied and Environmental Microbiology, 2015, 81, 699-712.	1.4	89
12	Electrochemical Investigation of a Microbial Solar Cell Reveals a Nonphotosynthetic Biocathode Catalyst. Applied and Environmental Microbiology, 2013, 79, 3933-3942.	1.4	79
13	Toward understanding long-distance extracellular electron transport in an electroautotrophic microbial community. Energy and Environmental Science, 2016, 9, 3544-3558.	15.6	69
14	Study of the Mechanism of Catalytic Activity of G. Sulfurreducens Biofilm Anodes during Biofilm Growth. ChemSusChem, 2012, 5, 1106-1118.	3.6	62
15	Spatially Resolved Confocal Resonant Raman Microscopic Analysis of Anodeâ€Grown Geobacter sulfurreducens Biofilms. ChemPhysChem, 2014, 15, 320-327.	1.0	54
16	â€˜Candidatus Tenderia electrophaga', an uncultivated electroautotroph from a biocathode enrichment. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 2178-2185.	0.8	54
17	Bioelectrochemical systems and synthetic biology: more power, more products. Microbial Biotechnology, 2019, 12, 819-823.	2.0	52
18	Enrichment of a High-Current Density Denitrifying Microbial Biocathode. Journal of the Electrochemical Society, 2014, 161, H3049-H3057.	1.3	51

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19	Engineering Wired Life: Synthetic Biology for Electroactive Bacteria. ACS Synthetic Biology, 2021, 10, 2808-2823.	1.9	50
20	Engineered living conductive biofilms as functional materials. MRS Communications, 2019, 9, 505-517.	0.8	31
21	Relative abundance of â€˜Candidatus Tenderia electrophagaâ€™ is linked to cathodic current in an aerobic biocathode community. Microbial Biotechnology, 2018, 11, 98-111.	2.0	30
22	Metaproteomic evidence of changes in protein expression following a change in electrode potential in a robust biocathode microbiome. Proteomics, 2015, 15, 3486-3496.	1.3	28
23	Development of a Genetic System for Marinobacter atlanticus CP1 (sp. nov.), a Wax Ester Producing Strain Isolated From an Autotrophic Biocathode. Frontiers in Microbiology, 2018, 9, 3176.	1.5	26
24	Peroxidase activity and phenolic content in elite clonal lines of Mentha pulegium in response to polymeric dye R-478 and Agrobacterium rhizogenes. Process Biochemistry, 2002, 37, 805-812.	1.8	25
25	Effect of Agrobacterium rhizogenes on phenolic content of Mentha pulegium elite clonal line for phytoremediation applications. Process Biochemistry, 2002, 38, 287-293.	1.8	19
26	Organism Engineering for the Bioproduction of the Triaminotrinitrobenzene (TATB) Precursor Phloroglucinol (PG). ACS Synthetic Biology, 2019, 8, 2746-2755.	1.9	19
27	USE OF NATIVE PLANTS FOR REMEDIATION OF TRICHLOROETHYLENE: I. DECIDUOUS TREES. International Journal of Phytoremediation, 2009, 11, 150-170.	1.7	17
28	Electron Transport through Early Exponentialâ€Phase Anodeâ€Grown Geobacter sulfurreducens Biofilms. ChemElectroChem, 2014, 1, 1957-1965.	1.7	17
29	Complete Genome Sequence of Marinobacter sp. CP1, Isolated from a Self-Regenerating Biocathode Biofilm. Genome Announcements, 2015, 3, .	0.8	14
30	Evidence of a Streamlined Extracellular Electron Transfer Pathway from Biofilm Structure, Metabolic Stratification, and Long-Range Electron Transfer Parameters. Applied and Environmental Microbiology, 2021, 87, e0070621.	1.4	13
31	Nanoliter scale electrochemistry of natural and engineered electroactive bacteria. Bioelectrochemistry, 2021, 137, 107644.	2.4	12
32	Electrochemical Characterization of Marinobacter atlanticus Strain CP1 Suggests a Role for Trace Minerals in Electrogenic Activity. Frontiers in Energy Research, 2019, 7, .	1.2	11
33	Activation of Protein Expression in Electroactive Biofilms. ACS Synthetic Biology, 2020, 9, 1958-1967.	1.9	11
34	USE OF NATIVE PLANTS FOR REMEDIATION OF TRICHLOROETHYLENE: II. CONIFEROUS TREES. International Journal of Phytoremediation, 2009, 11, 171-186.	1.7	10
35	The Current and Future State of Department of Defense (DoD) Microbiome Research: a Summary of the Inaugural DoD Tri-Service Microbiome Consortium Informational Meeting. MSystems, 2018, 3, .	1.7	10
36	Metagenomic and Metatranscriptomic Characterization of a Microbial Community That Catalyzes Both Energy-Generating and Energy-Storing Electrode Reactions. Applied and Environmental Microbiology, 2021, 87, e0167621.	1.4	10

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37	Response of oregano (Origanum vulgare L.) clonal lines to Pseudomonas sp. Z strain and polydye R-478 and implications for hyperhydricity prevention in tissue culture. Process Biochemistry, 2002, 38, 343-350.	1.8	9
38	Redox Characterization of Electrode-Immobilized Bacterial Microcompartment Shell Proteins Engineered To Bind Metal Centers. ACS Applied Bio Materials, 2020, 3, 685-692.	2.3	9
39	Marinobacter atlanticus electrode biofilms differentially regulate gene expression depending on electrode potential and lifestyle. Biofilm, 2021, 3, 100051.	1.5	8
40	Proteins for bioinspired optical and electronic materials. MRS Bulletin, 2020, 45, 1027-1033.	1.7	6
41	Microbial survival and growth on <scp>nonâ€corrodible</scp> conductive materials. Environmental Microbiology, 2021, 23, 7231-7244.	1.8	6
42	A bacterial membrane sculpting protein with BAR domain-like activity. ELife, 2021, 10, .	2.8	6
43	Meeting report of the third annual Tri-Service Microbiome Consortium symposium. Environmental Microbiomes, 2020, 15, 12.	2.2	4
44	Molecular Mechanisms Contributing to the Growth and Physiology of an Extremophile Cultured with Dielectric Heating. Applied and Environmental Microbiology, 2016, 82, 6233-6246.	1.4	3
45	Complete Genome Sequence of Labrenzia sp. Strain CP4, Isolated from a Self-Regenerating Biocathode Biofilm. Genome Announcements, 2016, 4, .	0.8	1
46	Editorial: Electrobiotechnology Towards Sustainable Bioeconomy: Fundamental, Optimization and Applications. Frontiers in Bioengineering and Biotechnology, 2022, 10, 901072.	2.0	1
47	Microbial Coppersmiths. Joule, 2020, 4, 2072-2074.	11.7	0
48	Complete Genome Sequence of Leisingera aquamixtae R2C4, Isolated from a Self-Regenerating Biocathode Consortium. Microbiology Resource Announcements, 2019, 8, .	0.3	0
49	Electrified biofilms: A special issue on microbial electrochemistry. Biofilm, 2021, 3, 100062.	1.5	0