Matthew D Yates

List of Publications by Year
in descending order

38	2,014	394421	361022
papers	citations	19 h-index	35 g-index

42	42	42	2135
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Convergent development of anodic bacterial communities in microbial fuel cells. ISME Journal, 2012, 6, 2002-2013.	9.8	190
2	Microbial Community Composition Is Unaffected by Anode Potential. Environmental Science & Technology, 2014, 48, 1352-1358.	10.0	171
3	Extracellular DNA Promotes Efficient Extracellular Electron Transfer by Pyocyanin in Pseudomonas aeruginosa Biofilms. Cell, 2020, 182, 919-932.e19.	28.9	166
4	Methanobacterium Dominates Biocathodic Archaeal Communities in Methanogenic Microbial Electrolysis Cells. ACS Sustainable Chemistry and Engineering, 2015, 3, 1668-1676.	6.7	130
5	Comparison of Nonprecious Metal Cathode Materials for Methane Production by Electromethanogenesis. ACS Sustainable Chemistry and Engineering, 2014, 2, 910-917.	6.7	127
6	Examination of microbial fuel cell start-up times with domestic wastewater and additional amendments. Bioresource Technology, 2011, 102, 7301-7306.	9.6	117
7	The presence of hydrogenotrophic methanogens in the inoculum improves methane gas production in microbial electrolysis cells. Frontiers in Microbiology, 2014, 5, 778.	3.5	113
8	Extracellular Palladium Nanoparticle Production using Geobacter sulfurreducens. ACS Sustainable Chemistry and Engineering, 2013, 1, 1165-1171.	6.7	109
9	Thermally activated long range electron transport in living biofilms. Physical Chemistry Chemical Physics, 2015, 17, 32564-32570.	2.8	108
10	Anodic biofilms in microbial fuel cells harbor low numbers of higher-power-producing bacteria than abundant genera. Applied Microbiology and Biotechnology, 2010, 88, 371-380.	3.6	104
11	Set potential regulation reveals additional oxidation peaks of Geobacter sulfurreducens anodic biofilms. Electrochemistry Communications, 2012, 22, 116-119.	4.7	100
12	Measuring conductivity of living Geobacter sulfurreducens biofilms. Nature Nanotechnology, 2016, 11, 910-913.	31.5	99
13	Toward understanding long-distance extracellular electron transport in an electroautotrophic microbial community. Energy and Environmental Science, 2016, 9, 3544-3558.	30.8	69
14	Hydrogen evolution catalyzed by viable and non-viable cells on biocathodes. International Journal of Hydrogen Energy, 2014, 39, 16841-16851.	7.1	48
15	Examination of protein degradation in continuous flow, microbial electrolysis cells treating fermentation wastewater. Bioresource Technology, 2014, 171, 182-186.	9.6	43
16	Biofilm as a redox conductor: a systematic study of the moisture and temperature dependence of its electrical properties. Physical Chemistry Chemical Physics, 2016, 18, 17815-17821.	2.8	40
17	Microbial Electrochemical Energy Storage and Recovery in a Combined Electrotrophic and Electrogenic Biofilm. Environmental Science and Technology Letters, 2017, 4, 374-379.	8.7	34
18	Engineered living conductive biofilms as functional materials. MRS Communications, 2019, 9, 505-517.	1.8	31

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19	Alamethicin Suppresses Methanogenesis and Promotes Acetogenesis in Bioelectrochemical Systems. Applied and Environmental Microbiology, 2015, 81, 3863-3868.	3.1	25
20	Exoelectrogenic biofilm as a template for sustainable formation of a catalytic mesoporous structure. Biotechnology and Bioengineering, 2014, 111, 2349-2354.	3.3	19
21	Effects of constant or dynamic low anode potentials on microbial community development in bioelectrochemical systems. Applied Microbiology and Biotechnology, 2015, 99, 9319-9329.	3.6	18
22	Application of electrochemical surface plasmon resonance (ESPR) to the study of electroactive microbial biofilms. Physical Chemistry Chemical Physics, 2018, 20, 25648-25656.	2.8	17
23	Redox-gradient driven electron transport in a mixed community anodic biofilm. FEMS Microbiology Ecology, 2018, 94, .	2.7	16
24	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.	3.1	13
25	Biotemplated Palladium Catalysts Can Be Stabilized on Different Support Materials. ChemElectroChem, 2014, 1, 1867-1873.	3.4	12
26	On the relationship between long-distance and heterogeneous electron transfer in electrode-grown Geobacter sulfurreducens biofilms. Bioelectrochemistry, 2018, 119, 111-118.	4.6	12
27	Nanoliter scale electrochemistry of natural and engineered electroactive bacteria. Bioelectrochemistry, 2021, 137, 107644.	4.6	12
28	Electrochemical Characterization of Marinobacter atlanticus Strain CP1 Suggests a Role for Trace Minerals in Electrogenic Activity. Frontiers in Energy Research, 2019, 7, .	2.3	11
29	Activation of Protein Expression in Electroactive Biofilms. ACS Synthetic Biology, 2020, 9, 1958-1967.	3.8	11
30	Spatially Resolved Chemical Analysis of Geobacter sulfurreducens Cell Surface. ACS Nano, 2019, 13, 4834-4842.	14.6	10
31	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.	3.1	10
32	Redox Characterization of Electrode-Immobilized Bacterial Microcompartment Shell Proteins Engineered To Bind Metal Centers. ACS Applied Bio Materials, 2020, 3, 685-692.	4.6	9
33	Response to Comment on Microbial Community Composition Is Unaffected by Anode Potential. Environmental Science & Technology, 2014, 48, 14853-14854.	10.0	7
34	Active Solarization as a Nonchemical Alternative to Soil Fumigation for Controlling Pests. Soil Science Society of America Journal, 2011, 75, 9-16.	2.2	6
35	Biofilm structure, dynamics, and ecology of an upscaled biocathode wastewater microbial fuel cell. Biotechnology and Bioengineering, 2021, 118, 1305-1316.	3.3	5
36	Response to â€œComment on Extracellular Palladium Nanoparticle Production Using Geobacter sulfurreducensâ€• ACS Sustainable Chemistry and Engineering, 2013, 1, 1346-1347.	6.7	0

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37	Internal Redox Polarity of an Individual G. sulfurreducens Bacterial Cell Attached to an Inorganic Substrate. ChemPhysChem, 2018, 19, 1820-1829.	2.1	0
38	Internal Redox Polarity of an Individual G. sulfurreducens Bacterial Cell Attached to an Inorganic Substrate. ChemPhysChem, 2018, 19, 1801-1801.	2.1	0