

# Matthew D Yates

## List of Publications by Year in descending order

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38  
papers

2,014  
citations

394421

19  
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361022

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42  
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42  
docs citations

42  
times ranked

2135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoliter scale electrochemistry of natural and engineered electroactive bacteria. <i>Bioelectrochemistry</i> , 2021, 137, 107644.	4.6	12
2	Biofilm structure, dynamics, and ecology of an upscaled biocathode wastewater microbial fuel cell. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1305-1316.	3.3	5
3	Evidence of a Streamlined Extracellular Electron Transfer Pathway from Biofilm Structure, Metabolic Stratification, and Long-Range Electron Transfer Parameters. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0070621.	3.1	13
4	Metagenomic and Metatranscriptomic Characterization of a Microbial Community That Catalyzes Both Energy-Generating and Energy-Storing Electrode Reactions. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0167621.	3.1	10
5	Redox Characterization of Electrode-Immobilized Bacterial Microcompartment Shell Proteins Engineered To Bind Metal Centers. <i>ACS Applied Bio Materials</i> , 2020, 3, 685-692.	4.6	9
6	Extracellular DNA Promotes Efficient Extracellular Electron Transfer by Pyocyanin in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Cell</i> , 2020, 182, 919-932.e19.	28.9	166
7	Activation of Protein Expression in Electroactive Biofilms. <i>ACS Synthetic Biology</i> , 2020, 9, 1958-1967.	3.8	11
8	Electrochemical Characterization of <i>Marinobacter atlanticus</i> Strain CP1 Suggests a Role for Trace Minerals in Electrogenic Activity. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	11
9	Engineered living conductive biofilms as functional materials. <i>MRS Communications</i> , 2019, 9, 505-517.	1.8	31
10	Spatially Resolved Chemical Analysis of <i>Geobacter sulfurreducens</i> Cell Surface. <i>ACS Nano</i> , 2019, 13, 4834-4842.	14.6	10
11	On the relationship between long-distance and heterogeneous electron transfer in electrode-grown <i>Geobacter sulfurreducens</i> biofilms. <i>Bioelectrochemistry</i> , 2018, 119, 111-118.	4.6	12
12	Application of electrochemical surface plasmon resonance (ESPR) to the study of electroactive microbial biofilms. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25648-25656.	2.8	17
13	Internal Redox Polarity of an Individual <i>G. sulfurreducens</i> Bacterial Cell Attached to an Inorganic Substrate. <i>ChemPhysChem</i> , 2018, 19, 1820-1829.	2.1	0
14	Redox-gradient driven electron transport in a mixed community anodic biofilm. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	16
15	Internal Redox Polarity of an Individual <i>G. sulfurreducens</i> Bacterial Cell Attached to an Inorganic Substrate. <i>ChemPhysChem</i> , 2018, 19, 1801-1801.	2.1	0
16	Microbial Electrochemical Energy Storage and Recovery in a Combined Electrotrophic and Electrogenic Biofilm. <i>Environmental Science and Technology Letters</i> , 2017, 4, 374-379.	8.7	34
17	Toward understanding long-distance extracellular electron transport in an electroautotrophic microbial community. <i>Energy and Environmental Science</i> , 2016, 9, 3544-3558.	30.8	69
18	Measuring conductivity of living <i>Geobacter sulfurreducens</i> biofilms. <i>Nature Nanotechnology</i> , 2016, 11, 910-913.	31.5	99

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19	Biofilm as a redox conductor: a systematic study of the moisture and temperature dependence of its electrical properties. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17815-17821.	2.8	40
20	<i>Methanobacterium</i> Dominates Biocathodic Archaeal Communities in Methanogenic Microbial Electrolysis Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1668-1676.	6.7	130
21	Alamethicin Suppresses Methanogenesis and Promotes Acetogenesis in Bioelectrochemical Systems. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3863-3868.	3.1	25
22	Thermally activated long range electron transport in living biofilms. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32564-32570.	2.8	108
23	Effects of constant or dynamic low anode potentials on microbial community development in bioelectrochemical systems. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9319-9329.	3.6	18
24	Response to Comment on Microbial Community Composition Is Unaffected by Anode Potential. <i>Environmental Science &amp; Technology</i> , 2014, 48, 14853-14854.	10.0	7
25	Biotemplated Palladium Catalysts Can Be Stabilized on Different Support Materials. <i>ChemElectroChem</i> , 2014, 1, 1867-1873.	3.4	12
26	Microbial Community Composition Is Unaffected by Anode Potential. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1352-1358.	10.0	171
27	Comparison of Nonprecious Metal Cathode Materials for Methane Production by Electromethanogenesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 910-917.	6.7	127
28	Hydrogen evolution catalyzed by viable and non-viable cells on biocathodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16841-16851.	7.1	48
29	Exoelectrogenic biofilm as a template for sustainable formation of a catalytic mesoporous structure. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2349-2354.	3.3	19
30	Examination of protein degradation in continuous flow, microbial electrolysis cells treating fermentation wastewater. <i>Bioresource Technology</i> , 2014, 171, 182-186.	9.6	43
31	The presence of hydrogenotrophic methanogens in the inoculum improves methane gas production in microbial electrolysis cells. <i>Frontiers in Microbiology</i> , 2014, 5, 778.	3.5	113
32	Response to "Comment on Extracellular Palladium Nanoparticle Production Using <i>Geobacter sulfurreducens</i> ": <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1346-1347.	6.7	0
33	Extracellular Palladium Nanoparticle Production using <i>Geobacter sulfurreducens</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1165-1171.	6.7	109
34	Convergent development of anodic bacterial communities in microbial fuel cells. <i>ISME Journal</i> , 2012, 6, 2002-2013.	9.8	190
35	Set potential regulation reveals additional oxidation peaks of <i>Geobacter sulfurreducens</i> anodic biofilms. <i>Electrochemistry Communications</i> , 2012, 22, 116-119.	4.7	100
36	Active Solarization as a Nonchemical Alternative to Soil Fumigation for Controlling Pests. <i>Soil Science Society of America Journal</i> , 2011, 75, 9-16.	2.2	6

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37	Examination of microbial fuel cell start-up times with domestic wastewater and additional amendments. <i>Bioresource Technology</i> , 2011, 102, 7301-7306.	9.6	117
38	Anodic biofilms in microbial fuel cells harbor low numbers of higher-power-producing bacteria than abundant genera. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 371-380.	3.6	104