

Xochitl Dominguez-Benetton

List of Publications by Year in descending order

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41
papers

2,647
citations

331538

21
h-index

289141

40
g-index

41
all docs

41
docs citations

41
times ranked

2939
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview on emerging bioelectrochemical systems (BESs): Technology for sustainable electricity, waste remediation, resource recovery, chemical production and beyond. <i>Renewable Energy</i> , 2016, 98, 153-170.	4.3	334
2	Carbon dioxide reduction by mixed and pure cultures in microbial electrosynthesis using an assembly of graphite felt and stainless steel as a cathode. <i>Bioresource Technology</i> , 2015, 195, 14-24.	4.8	276
3	The accurate use of impedance analysis for the study of microbial electrochemical systems. <i>Chemical Society Reviews</i> , 2012, 41, 7228.	18.7	222
4	SRB-biofilm influence in active corrosion sites formed at the steel-electrolyte interface when exposed to artificial seawater conditions. <i>Corrosion Science</i> , 2008, 50, 1169-1183.	3.0	190
5	High strength wastewater treatment accompanied by power generation using air cathode microbial fuel cell. <i>Applied Energy</i> , 2013, 105, 194-206.	5.1	188
6	Internal resistance of microfluidic microbial fuel cell: Challenges and potential opportunities. <i>Bioresource Technology</i> , 2013, 142, 672-682.	4.8	171
7	A critical revisit of the key parameters used to describe microbial electrochemical systems. <i>Electrochimica Acta</i> , 2014, 140, 191-208.	2.6	148
8	Enzymatic electrosynthesis of formate through CO ₂ sequestration/reduction in a bioelectrochemical system (BES). <i>Bioresource Technology</i> , 2014, 165, 350-354.	4.8	127
9	Bioelectrocatalyzed reduction of acetic and butyric acids via direct electron transfer using a mixed culture of sulfate-reducers drives electrosynthesis of alcohols and acetone. <i>Chemical Communications</i> , 2013, 49, 6495.	2.2	111
10	Metal recovery by microbial electro-metallurgy. <i>Progress in Materials Science</i> , 2018, 94, 435-461.	16.0	110
11	Characterization and comparison of the performance of two different separator types in air-cathode microbial fuel cell treating synthetic wastewater. <i>Chemical Engineering Journal</i> , 2013, 228, 1-11.	6.6	86
12	Microbial bioanodes with high salinity tolerance for microbial fuel cells and microbial electrolysis cells. <i>Electrochemistry Communications</i> , 2013, 33, 1-4.	2.3	85
13	Dual gas diffusion cathode design for microbial fuel cell (<sc>MFC</sc>): optimizing the suitable mode of operation in terms of bioelectrochemical and bioelectrokinetic evaluation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 624-639.	1.6	85
14	Development of gas diffusion electrodes for cogeneration of chemicals and electricity. <i>Electrochimica Acta</i> , 2012, 82, 415-426.	2.6	70
15	Electrode material properties for designing effective microbial electrosynthesis systems. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24420-24436.	5.2	59
16	Towards reliable quantification of hydroxyl radicals in the Fenton reaction using chemical probes. <i>RSC Advances</i> , 2018, 8, 5321-5330.	1.7	46
17	Characterization of anode and anolyte community growth and the impact of impedance in a microbial fuel cell. <i>BMC Biotechnology</i> , 2014, 14, 102.	1.7	40
18	Optimization of electrochemical parameters for sulfate-reducing bacteria (SRB) based biocathode. <i>RSC Advances</i> , 2015, 5, 39601-39611.	1.7	25

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19	Shift to continuous operation of an air-cathode microbial fuel cell long-running in fed-batch mode boosts power generation. <i>International Journal of Green Energy</i> , 2016, 13, 71-79.	2.1	25
20	Gas Diffusion Electrodes Manufactured by Casting Evaluation as Air Cathodes for Microbial Fuel Cells (MFC). <i>Materials</i> , 2016, 9, 601.	1.3	24
21	A comprehensive impedance journey to continuous microbial fuel cells. <i>Bioelectrochemistry</i> , 2015, 106, 159-166.	2.4	22
22	Characterization of iron oxide nanoparticles by means of single-particle ICP-mass spectrometry (SP-ICP-MS) versus physical resolution to overcome spectral overlap. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2023-2032.	1.6	22
23	Influence of headspace composition on product diversity by sulphate reducing bacteria biocathode. <i>Bioresource Technology</i> , 2014, 165, 365-371.	4.8	19
24	Evaluation and enhanced operational performance of microbial fuel cells under alternating anodic open circuit and closed circuit modes with different substrates. <i>Biochemical Engineering Journal</i> , 2014, 90, 294-300.	1.8	19
25	Multifactorial evaluation of the electrochemical response of a microbial fuel cell. <i>RSC Advances</i> , 2014, 4, 23815-23825.	1.7	16
26	Modeling and design of semi-solid flow batteries. <i>Journal of Power Sources</i> , 2019, 434, 226740.	4.0	16
27	Membrane electrolysis for separation of cobalt from terephthalic acid industrial wastewater. <i>Hydrometallurgy</i> , 2020, 191, 105216.	1.8	15
28	Gas Diffusion Electrodes on the Electrosynthesis of Controllable Iron Oxide Nanoparticles. <i>Scientific Reports</i> , 2019, 9, 15370.	1.6	14
29	Metal removal from aqueous solutions: insights from modeling precipitation titration curves. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103596.	3.3	11
30	Carbon-supported iron complexes as electrocatalysts for the cogeneration of hydroxylamine and electricity in a NO-H ₂ fuel cell: A combined electrochemical and density functional theory study. <i>Journal of Power Sources</i> , 2018, 390, 249-260.	4.0	9
31	Effect of Operating Parameters on the Performance Evaluation of Benthic Microbial Fuel Cells Using Sediments from the Bay of Campeche, Mexico. <i>Sustainability</i> , 2018, 10, 2446.	1.6	9
32	Spin transition nanoparticles made electrochemically. <i>Nanoscale</i> , 2020, 12, 5412-5421.	2.8	9
33	Electrified bioreactors: the next powerup for biometallurgical wastewater treatment. <i>Microbial Biotechnology</i> , 2022, 15, 755-772.	2.0	7
34	The Role of Nicotine in the Corrosive Behavior of a Ti-Al ₄ V Dental Implant. <i>Clinical Implant Dentistry and Related Research</i> , 2015, 17, e352-63.	1.6	6
35	Oxidation-assisted alkaline precipitation: the effect of H ₂ O ₂ on the size of CuO and FeOOH nanoparticles. <i>RSC Advances</i> , 2019, 9, 29902-29908.	1.7	6
36	Arsenic immobilization as crystalline scorodite by gas-diffusion electrocrystallization. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1118-1128.	1.9	6

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37	Synthesis of material libraries using gas diffusion electrodes. Journal of Materials Chemistry A, 2020, 8, 11674-11686.	5.2	6
38	pH Transitions and electrochemical behavior during the synthesis of iron oxide nanoparticles with gas-diffusion electrodes. Nanoscale Advances, 2020, 2, 2052-2062.	2.2	6
39	Polarization Potential Has No Effect on Maximum Current Density Produced by Halotolerant Bioanodes. Energies, 2018, 11, 529.	1.6	4
40	Exploring natural vs. synthetic minimal media to boost current generation with electrochemically-active marine bioanodes. Journal of Environmental Chemical Engineering, 2016, 4, 2362-2369.	3.3	3
41	Oxidation-assisted alkaline precipitation of nanoparticles using gas-diffusion electrodes. Reaction Chemistry and Engineering, 2021, 6, 1031-1041.	1.9	0