Abdelrhman Mohamed

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The mechanism of neutral red-mediated microbial electrosynthesis in Escherichia coli: menaquinone reduction. Bioresource Technology, 2015, 192, 689-695.	9.6	69
2	Neutral red-mediated microbial electrosynthesis by Escherichia coli, Klebsiella pneumoniae, and Zymomonas mobilis. Bioresource Technology, 2015, 195, 57-65.	9.6	58
3	Hypochlorous-Acid-Generating Electrochemical Scaffold for Treatment of Wound Biofilms. Scientific Reports, 2019, 9, 2683.	3.3	43
4	Biofilm matrix and artificial mediator for efficient electron transport in CO2 microbial electrosynthesis. Chemical Engineering Journal, 2022, 427, 131885.	12.7	31
5	The Influence of Energy Harvesting Strategies on Performance and Microbial Community for Sediment Microbial Fuel Cells. Journal of the Electrochemical Society, 2017, 164, H3109-H3114.	2.9	20
6	Hypochlorous acid-generating electrochemical scaffold eliminates <i>Candida albicans</i> biofilms. Journal of Applied Microbiology, 2020, 129, 776-786.	3.1	18
7	Large-scale switchable potentiostatically controlled/microbial fuel cell bioelectrochemical wastewater treatment system. Bioelectrochemistry, 2021, 138, 107724.	4.6	18
8	Hydrogen peroxideâ€producing electrochemical bandage controlled by a wearable potentiostat for treatment of wound infections. Biotechnology and Bioengineering, 2021, 118, 2815-2821.	3.3	18
9	Effect of electrode spacing on electron transfer and conductivity of Geobacter sulfurreducens biofilms. Bioelectrochemistry, 2020, 131, 107395.	4.6	17
10	Biomass-derived nanocarbon materials for biological applications: challenges and prospects. Journal of Materials Chemistry B, 2020, 8, 9668-9678.	5.8	16
11	Vancomycin and maltodextrin affect structure and activity of <i>Staphylococcus aureus</i> biofilms. Biotechnology and Bioengineering, 2015, 112, 2562-2570.	3.3	15
12	Hyperosmotic Agents and Antibiotics Affect Dissolved Oxygen and pH Concentration Gradients in Staphylococcus aureus Biofilms. Applied and Environmental Microbiology, 2017, 83, .	3.1	15
13	Hydrogenâ€Peroxideâ€Generating Electrochemical Scaffold Eradicates Methicillinâ€Resistant <i>Staphylococcus aureus</i> Biofilms. Global Challenges, 2019, 3, 1800101.	3.6	15
14	<i>In Vitro</i> Antibacterial Activity of Hydrogen Peroxide and Hypochlorous Acid, Including That Generated by Electrochemical Scaffolds. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	15
15	Rapid differentiation of antibiotic-susceptible and -resistant bacteria through mediated extracellular electron transfer. Biosensors and Bioelectronics, 2022, 197, 113754.	10.1	15
16	Physiochemical changes mediated by "Candidatus Liberibacter asiaticus―in Asian citrus psyllids. Scientific Reports, 2019, 9, 16375.	3.3	13
17	An Integrated HOCI-Producing E-Scaffold Is Active against Monomicrobial and Polymicrobial Biofilms. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	12
18	Structural and metabolic responses of Staphylococcus aureus biofilms to hyperosmotic and antibiotic stress. Biotechnology and Bioengineering, 2018, 115, 1594-1603.	3.3	11

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19	In situ enrichment of microbial communities on polarized electrodes deployed in alkaline hot springs. Journal of Power Sources, 2019, 414, 547-556.	7.8	11
20	Hydrogen-peroxide generating electrochemical bandage is active in vitro against mono- and dual-species biofilms. Biofilm, 2021, 3, 100055.	3.8	10
21	Autonomous Device for Evaluating the Field Performance of Microbial Fuel Cells in Remote Areas. Journal of the Electrochemical Society, 2017, 164, H3030-H3036.	2.9	9
22	Hydrogen Peroxide-Generating Electrochemical Scaffold Activity against Trispecies Biofilms. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	8
23	<i>In Vitro</i> Antibiofilm Activity of Hydrogen Peroxide-Generating Electrochemical Bandage against Yeast Biofilms. Antimicrobial Agents and Chemotherapy, 2022, 66, AAC0179221.	3.2	5
24	Electron donor availability controls scale up of anodic biofilms. Bioelectrochemistry, 2020, 132, 107403.	4.6	4
25	Hypochlorous Acid-Generating Electrochemical Catheter Prototype for Prevention of Intraluminal Infection. Microbiology Spectrum, 2021, 9, e0055721.	3.0	4
26	Threeâ€dimensional biofilm image reconstruction for assessing structural parameters. Biotechnology and Bioengineering, 2020, 117, 2460-2468.	3.3	3
27	Spatial variation of electrical conductance in electrochemically active biofilm growing on interdigitated microelectrode array. Journal of Power Sources, 2021, 491, 229615.	7.8	3
28	Kinetics and scale up of oxygen reducing cathodic biofilms. Biofilm, 2021, 3, 100053.	3.8	3
29	Electrochemically Active Biofilms as an Indicator of Soil Health. Journal of the Electrochemical Society, 2021, 168, 087511.	2.9	2
30	Characterization of Electrochemical Activity in Four Alkaline Hot Springs in Heart Lake Geyser Basin, Yellowstone National Park. ECS Meeting Abstracts, 2016, , .	0.0	0
31	Field Demonstration of Potentiostatically Enriched Microbial Fuel Cell Wastewater Treatment System. ECS Meeting Abstracts, 2018, , .	0.0	0
32	Eradication of Candida Albicans Biofilm By Electrochemical Scaffold Producing Hypochlorous Acid. ECS Meeting Abstracts, 2018, , .	0.0	0
33	Electron Transfer Rates of Anodic Biofilms at Different Sizes. ECS Meeting Abstracts, 2018, , .	0.0	0
34	Biochemical Oxygen Demand Microelectrode for Quantifying Concentration Gradients in Anaerobic Biofilms. ECS Meeting Abstracts, 2019, , .	0.0	0
35	Scale up of Biofilm Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	0
36	773. Hypochlorous Acid Generating Electrochemical Catheter Prototype for Prevention of Intraluminal Infections. Open Forum Infectious Diseases, 2021, 8, S483-S484.	0.9	0