

Abdelrhman Mohamed

List of Publications by Year in descending order

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36
papers

481
citations

687363

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713466

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37
all docs

37
docs citations

37
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofilm matrix and artificial mediator for efficient electron transport in CO ₂ microbial electrosynthesis. Chemical Engineering Journal, 2022, 427, 131885.	12.7	31
2	Rapid differentiation of antibiotic-susceptible and -resistant bacteria through mediated extracellular electron transfer. Biosensors and Bioelectronics, 2022, 197, 113754.	10.1	15
3	<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
4	Large-scale switchable potentiostatically controlled/microbial fuel cell bioelectrochemical wastewater treatment system. Bioelectrochemistry, 2021, 138, 107724.	4.6	18
5	An Integrated HOCl-Producing E-Scaffold Is Active against Monomicrobial and Polymicrobial Biofilms. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	12
6	<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
7	Spatial variation of electrical conductance in electrochemically active biofilm growing on interdigitated microelectrode array. Journal of Power Sources, 2021, 491, 229615.	7.8	3
8	Hydrogen peroxide-producing electrochemical bandage controlled by a wearable potentiostat for treatment of wound infections. Biotechnology and Bioengineering, 2021, 118, 2815-2821.	3.3	18
9	Electrochemically Active Biofilms as an Indicator of Soil Health. Journal of the Electrochemical Society, 2021, 168, 087511.	2.9	2
10	Kinetics and scale up of oxygen reducing cathodic biofilms. Biofilm, 2021, 3, 100053.	3.8	3
11	Hydrogen-peroxide generating electrochemical bandage is active in vitro against mono- and dual-species biofilms. Biofilm, 2021, 3, 100055.	3.8	10
12	Hypochlorous Acid-Generating Electrochemical Catheter Prototype for Prevention of Intraluminal Infection. Microbiology Spectrum, 2021, 9, e0055721.	3.0	4
13	773. Hypochlorous Acid Generating Electrochemical Catheter Prototype for Prevention of Intraluminal Infections. Open Forum Infectious Diseases, 2021, 8, S483-S484.	0.9	0
14	Effect of electrode spacing on electron transfer and conductivity of Geobacter sulfurreducens biofilms. Bioelectrochemistry, 2020, 131, 107395.	4.6	17
15	Electron donor availability controls scale up of anodic biofilms. Bioelectrochemistry, 2020, 132, 107403.	4.6	4
16	Biomass-derived nanocarbon materials for biological applications: challenges and prospects. Journal of Materials Chemistry B, 2020, 8, 9668-9678.	5.8	16
17	Hydrogen Peroxide-Generating Electrochemical Scaffold Activity against Trispecies Biofilms. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	8
18	Hypochlorous acid-generating electrochemical scaffold eliminates <i>Candida albicans</i> biofilms. Journal of Applied Microbiology, 2020, 129, 776-786.	3.1	18

#	ARTICLE	IF	CITATIONS
19	Three-dimensional biofilm image reconstruction for assessing structural parameters. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2460-2468.	3.3	3
20	Hydrogen Peroxide-Generating Electrochemical Scaffold Eradicates Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilms. <i>Global Challenges</i> , 2019, 3, 1800101.	3.6	15
21	In situ enrichment of microbial communities on polarized electrodes deployed in alkaline hot springs. <i>Journal of Power Sources</i> , 2019, 414, 547-556.	7.8	11
22	Hypochlorous-Acid-Generating Electrochemical Scaffold for Treatment of Wound Biofilms. <i>Scientific Reports</i> , 2019, 9, 2683.	3.3	43
23	Physiochemical changes mediated by <i>Candidatus Liberibacter asiaticus</i> in Asian citrus psyllids. <i>Scientific Reports</i> , 2019, 9, 16375.	3.3	13
24	Biochemical Oxygen Demand Microelectrode for Quantifying Concentration Gradients in Anaerobic Biofilms. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
25	Scale up of Biofilm Electrodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
26	Structural and metabolic responses of <i>Staphylococcus aureus</i> biofilms to hyperosmotic and antibiotic stress. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1594-1603.	3.3	11
27	Field Demonstration of Potentiostatically Enriched Microbial Fuel Cell Wastewater Treatment System. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
28	Eradication of <i>Candida Albicans</i> Biofilm By Electrochemical Scaffold Producing Hypochlorous Acid. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
29	Electron Transfer Rates of Anodic Biofilms at Different Sizes. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
30	Hyperosmotic Agents and Antibiotics Affect Dissolved Oxygen and pH Concentration Gradients in <i>Staphylococcus aureus</i> Biofilms. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	15
31	Autonomous Device for Evaluating the Field Performance of Microbial Fuel Cells in Remote Areas. <i>Journal of the Electrochemical Society</i> , 2017, 164, H3030-H3036.	2.9	9
32	The Influence of Energy Harvesting Strategies on Performance and Microbial Community for Sediment Microbial Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, H3109-H3114.	2.9	20
33	Characterization of Electrochemical Activity in Four Alkaline Hot Springs in Heart Lake Geyser Basin, Yellowstone National Park. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
34	Vancomycin and maltodextrin affect structure and activity of <i>Staphylococcus aureus</i> biofilms. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2562-2570.	3.3	15
35	Neutral red-mediated microbial electrosynthesis by <i>Escherichia coli</i> , <i>Klebsiella pneumoniae</i> , and <i>Zymomonas mobilis</i> . <i>Bioresource Technology</i> , 2015, 195, 57-65.	9.6	58
36	The mechanism of neutral red-mediated microbial electrosynthesis in <i>Escherichia coli</i> : menaquinone reduction. <i>Bioresource Technology</i> , 2015, 192, 689-695.	9.6	69