

# Abdelrhman Mohamed

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

481  
citations

686830

13  
h-index

713013

21  
g-index

37  
all docs

37  
docs citations

37  
times ranked

536  
citing authors

#	ARTICLE	IF	CITATIONS
1	The mechanism of neutral red-mediated microbial electrosynthesis in <i>Escherichia coli</i> : menaquinone reduction. <i>Bioresource Technology</i> , 2015, 192, 689-695.	4.8	69
2	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.	4.8	58
3	Hypochlorous-Acid-Generating Electrochemical Scaffold for Treatment of Wound Biofilms. <i>Scientific Reports</i> , 2019, 9, 2683.	1.6	43
4	Biofilm matrix and artificial mediator for efficient electron transport in CO <sub>2</sub> microbial electrosynthesis. <i>Chemical Engineering Journal</i> , 2022, 427, 131885.	6.6	31
5	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.	1.3	20
6	Hypochlorous acid-generating electrochemical scaffold eliminates <i>Candida albicans</i> biofilms. <i>Journal of Applied Microbiology</i> , 2020, 129, 776-786.	1.4	18
7	Large-scale switchable potentiostatically controlled/microbial fuel cell bioelectrochemical wastewater treatment system. <i>Bioelectrochemistry</i> , 2021, 138, 107724.	2.4	18
8	Hydrogen peroxide-producing electrochemical bandage controlled by a wearable potentiostat for treatment of wound infections. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2815-2821.	1.7	18
9	Effect of electrode spacing on electron transfer and conductivity of <i>Geobacter sulfurreducens</i> biofilms. <i>Bioelectrochemistry</i> , 2020, 131, 107395.	2.4	17
10	Biomass-derived nanocarbon materials for biological applications: challenges and prospects. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9668-9678.	2.9	16
11	Vancomycin and maltodextrin affect structure and activity of <i>Staphylococcus aureus</i> biofilms. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2562-2570.	1.7	15
12	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, .	1.4	15
13	Hydrogen Peroxide-Generating Electrochemical Scaffold Eradicates Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilms. <i>Global Challenges</i> , 2019, 3, 1800101.	1.8	15
14	<i>In Vitro</i> Antibacterial Activity of Hydrogen Peroxide and Hypochlorous Acid, Including That Generated by Electrochemical Scaffolds. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	15
15	Rapid differentiation of antibiotic-susceptible and -resistant bacteria through mediated extracellular electron transfer. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113754.	5.3	15
16	Physiochemical changes mediated by <i>Candidatus Liberibacter asiaticus</i> in Asian citrus psyllids. <i>Scientific Reports</i> , 2019, 9, 16375.	1.6	13
17	An Integrated HOCl-Producing E-Scaffold Is Active against Monomicrobial and Polymicrobial Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	12
18	Structural and metabolic responses of <i>Staphylococcus aureus</i> biofilms to hyperosmotic and antibiotic stress. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1594-1603.	1.7	11

#	ARTICLE	IF	CITATIONS
19	In situ enrichment of microbial communities on polarized electrodes deployed in alkaline hot springs. <i>Journal of Power Sources</i> , 2019, 414, 547-556.	4.0	11
20	Hydrogen-peroxide generating electrochemical bandage is active in vitro against mono- and dual-species biofilms. <i>Biofilm</i> , 2021, 3, 100055.	1.5	10
21	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.	1.3	9
22	Hydrogen Peroxide-Generating Electrochemical Scaffold Activity against Trispecies Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	8
23	<i>In Vitro</i> Antibiofilm Activity of Hydrogen Peroxide-Generating Electrochemical Bandage against Yeast Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0179221.	1.4	5
24	Electron donor availability controls scale up of anodic biofilms. <i>Bioelectrochemistry</i> , 2020, 132, 107403.	2.4	4
25	Hypochlorous Acid-Generating Electrochemical Catheter Prototype for Prevention of Intraluminal Infection. <i>Microbiology Spectrum</i> , 2021, 9, e0055721.	1.2	4
26	Three-dimensional biofilm image reconstruction for assessing structural parameters. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2460-2468.	1.7	3
27	Spatial variation of electrical conductance in electrochemically active biofilm growing on interdigitated microelectrode array. <i>Journal of Power Sources</i> , 2021, 491, 229615.	4.0	3
28	Kinetics and scale up of oxygen reducing cathodic biofilms. <i>Biofilm</i> , 2021, 3, 100053.	1.5	3
29	Electrochemically Active Biofilms as an Indicator of Soil Health. <i>Journal of the Electrochemical Society</i> , 2021, 168, 087511.	1.3	2
30	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
31	Field Demonstration of Potentiostatically Enriched Microbial Fuel Cell Wastewater Treatment System. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
32	Eradication of <i>Candida Albicans</i> Biofilm By Electrochemical Scaffold Producing Hypochlorous Acid. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
33	Electron Transfer Rates of Anodic Biofilms at Different Sizes. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
34	Biochemical Oxygen Demand Microelectrode for Quantifying Concentration Gradients in Anaerobic Biofilms. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
35	Scale up of Biofilm Electrodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
36	773. Hypochlorous Acid Generating Electrochemical Catheter Prototype for Prevention of Intraluminal Infections. <i>Open Forum Infectious Diseases</i> , 2021, 8, S483-S484.	0.4	0