

Asim Ali Yaqoob

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,832
citations

257450

24
h-index

377865

34
g-index

42
all docs

42
docs citations

42
times ranked

1702
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Nanomaterials in the Treatment of Wastewater: A Review. <i>Water (Switzerland)</i> , 2020, 12, 495.	2.7	418
2	Recent Advances in Metal Decorated Nanomaterials and Their Various Biological Applications: A Review. <i>Frontiers in Chemistry</i> , 2020, 8, 341.	3.6	391
3	Silver nanoparticles: various methods of synthesis, size affecting factors and their potential applications—a review. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1369-1378.	3.1	298
4	Development and modification of materials to build cost-effective anodes for microbial fuel cells (MFCs): An overview. <i>Biochemical Engineering Journal</i> , 2020, 164, 107779.	3.6	180
5	Recent Advances in Anodes for Microbial Fuel Cells: An Overview. <i>Materials</i> , 2020, 13, 2078.	2.9	130
6	Modern trend of anodes in microbial fuel cells (MFCs): An overview. <i>Environmental Technology and Innovation</i> , 2021, 23, 101579.	6.1	124
7	Advances and Challenges in Developing Efficient Graphene Oxide-Based ZnO Photocatalysts for Dye Photo-Oxidation. <i>Nanomaterials</i> , 2020, 10, 932.	4.1	107
8	Outlook on the Role of Microbial Fuel Cells in Remediation of Environmental Pollutants with Electricity Generation. <i>Catalysts</i> , 2020, 10, 819.	3.5	99
9	Insights into the Current Trends in the Utilization of Bacteria for Microbially Induced Calcium Carbonate Precipitation. <i>Materials</i> , 2020, 13, 4993.	2.9	98
10	Modified graphene oxide anode: A bioinspired waste material for bioremediation of Pb ²⁺ with energy generation through microbial fuel cells. <i>Chemical Engineering Journal</i> , 2021, 417, 128052.	12.7	98
11	Role of Nanotechnology for Design and Development of Cosmeceutical: Application in Makeup and Skin Care. <i>Frontiers in Chemistry</i> , 2019, 7, 739.	3.6	97
12	Cellulose Derived Graphene/Polyaniline Nanocomposite Anode for Energy Generation and Bioremediation of Toxic Metals via Benthic Microbial Fuel Cells. <i>Polymers</i> , 2021, 13, 135.	4.5	80
13	A glimpse into the microbial fuel cells for wastewater treatment with energy generation. , 0, 214, 379-389.		62
14	Self-assembled oil palm biomass-derived modified graphene oxide anode: An efficient medium for energy transportation and bioremediating Cd (II) via microbial fuel cells. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103121.	4.9	55
15	Electricity generation and heavy metal remediation by utilizing yam (<i>Dioscorea alata</i>) waste in benthic microbial fuel cells (BMFCs). <i>Biochemical Engineering Journal</i> , 2021, 172, 108067.	3.6	52
16	Biomass-derived composite anode electrode: Synthesis, characterizations, and application in microbial fuel cells (MFCs). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106111.	6.7	48
17	Utilizing Biomass-Based Graphene Oxide—Polyaniline—Ag Electrodes in Microbial Fuel Cells to Boost Energy Generation and Heavy Metal Removal. <i>Polymers</i> , 2022, 14, 845.	4.5	43
18	Preparation and characterization of nanosized lignin from oil palm (<i>Elaeis guineensis</i>) biomass as a novel emulsifying agent. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3114-3124.	7.5	42

#	ARTICLE	IF	CITATIONS
19	Application of rotten rice as a substrate for bacterial species to generate energy and the removal of toxic metals from wastewater through microbial fuel cells. <i>Environmental Science and Pollution Research</i> , 2021, 28, 62816-62827.	5.3	42
20	Graphene oxide-ZnO nanocomposite: an efficient visible light photocatalyst for degradation of rhodamine B. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1291-1302.	3.1	40
21	Application of oil palm lignocellulosic derived material as an efficient anode to boost the toxic metal remediation trend and energy generation through microbial fuel cells. <i>Journal of Cleaner Production</i> , 2021, 314, 128062.	9.3	39
22	Application of microbial fuel cells energized by oil palm trunk sap (OPTS) to remove the toxic metal from synthetic wastewater with generation of electricity. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1949-1961.	3.1	34
23	Local fruit wastes driven benthic microbial fuel cell: a sustainable approach to toxic metal removal and bioelectricity generation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 32913-32928.	5.3	34
24	Preparation, characterization, and application of modified carbonized lignin as an anode for sustainable microbial fuel cell. <i>Chemical Engineering Research and Design</i> , 2021, 155, 49-60.	5.6	30
25	Thermal degradation and kinetics stability studies of oil palm (<i>Elaeis Guineensis</i>) biomass-derived lignin nanoparticle and its application as an emulsifying agent. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103182.	4.9	27
26	Utilization of biomass-derived electrodes: a journey toward the high performance of microbial fuel cells. <i>Applied Water Science</i> , 2022, 12, 1.	5.6	24
27	Synthesis and characterization of GO-Ag nanocomposite for removal of malachite dye from aqueous solution. <i>Materials Today: Proceedings</i> , 2021, 47, 1359-1365.	1.8	22
28	Toxicology and Environmental Application of Carbon Nanocomposite. <i>Green Energy and Technology</i> , 2021, , 1-18.	0.6	19
29	Scalability of biomass-derived graphene derivative materials as viable anode electrode for a commercialized microbial fuel cell: A systematic review. <i>Chinese Journal of Chemical Engineering</i> , 2023, 55, 277-292.	3.5	19
30	Exploring the effectiveness of microbial fuel cell for the degradation of organic pollutants coupled with bio-energy generation. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102183.	2.7	13
31	Introduction of smart polymer nanocomposites. , 2021, , 1-25.		11
32	Environmental applications of smart polymer composites. , 2021, , 295-312.		10
33	Hybrid Nanocomposites Based on Graphene and Its Derivatives: From Preparation to Applications. <i>Composites Science and Technology</i> , 2021, , 261-281.	0.6	9
34	Utilization of lignocellulosic biomass: A practical journey towards the development of emulsifying agent. <i>Talanta</i> , 2022, 239, 123109.	5.5	9
35	Oxidation of food waste as an organic substrate in a single chamber microbial fuel cell to remove the pollutant with energy generation. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102282.	2.7	8
36	Biomedical applications of smart polymer composites. , 2021, , 183-204.		6

#	ARTICLE	IF	CITATIONS
37	Synthesis of metal oxide-based nanocomposites for energy storage application. , 2022, , 611-635.		6
38	Electrode Material as Anode for Improving the Electrochemical Performance of Microbial Fuel Cells. , 0, , .		3
39	Synthesis of Ag@Polycarbazole Nanocomposite using Ferric Acetate as an Oxidant. Asian Journal of Chemistry, 2020, 32, 1069-1074.	0.3	2
40	Applications of Supercritical Carbon Dioxide in the Rubber Industry. Nanotechnology in the Life Sciences, 2020, , 199-218.	0.6	2
41	Copper oxide nanoparticles: a heterogeneous catalyst for synthesis of 3-(2-chlorophenyl)-2,4-pentadione. Inorganic and Nano-Metal Chemistry, 0, , 1-9.	1.6	1
42	Chitosan-based nanocomposites for gene delivery: Application and future perspectives. , 2021, , 245-262.		0