

Mahad Baawain

List of Publications by Year in descending order

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94
papers

2,245
citations

201385

27
h-index

253896

43
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94
all docs

94
docs citations

94
times ranked

2303
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of microbial desalination cell technology: Configurations, optimization and applications. <i>Journal of Cleaner Production</i> , 2018, 183, 458-480.	4.6	134
2	Effects of pollution on freshwater aquatic organisms. <i>Water Environment Research</i> , 2019, 91, 1272-1287.	1.3	125
3	Towards the optimization of sustainable food-energy-water systems: A stochastic approach. <i>Journal of Cleaner Production</i> , 2018, 171, 662-674.	4.6	95
4	Emissions and exposure assessments of SOX, NOX, PM10/2.5 and trace metals from oil industries: A review study (2000â€“2018). <i>Chemical Engineering Research and Design</i> , 2019, 123, 215-228.	2.7	93
5	Biodiesel production by valorizing waste Phoenix dactylifera L. Kernel oil in the presence of synthesized heterogeneous metallic oxide catalyst (Mn@MgO-ZrO ₂). <i>Energy Conversion and Management</i> , 2018, 155, 128-137.	4.4	90
6	Techno-economic evaluation of biogas production from food waste via anaerobic digestion. <i>Scientific Reports</i> , 2020, 10, 15719.	1.6	87
7	Indoor air pollution and exposure assessment of the gulf cooperation council countries: A critical review. <i>Environment International</i> , 2018, 121, 491-506.	4.8	82
8	Valorization of waste Date pits biomass for biodiesel production in presence of green carbon catalyst. <i>Energy Conversion and Management</i> , 2017, 135, 236-243.	4.4	68
9	Ultimate composition analysis of municipal solid waste in Muscat. <i>Journal of Cleaner Production</i> , 2017, 148, 355-362.	4.6	66
10	Potential use of FCC spent catalyst as partial replacement of cement or sand in cement mortars. <i>Construction and Building Materials</i> , 2013, 39, 77-81.	3.2	65
11	Impact of building ventilation systems and habitual indoor incense burning on SARS-CoV-2 virus transmissions in Middle Eastern countries. <i>Science of the Total Environment</i> , 2020, 733, 139356.	3.9	64
12	Current scenario of catalysts for biodiesel production: a critical review. <i>Reviews in Chemical Engineering</i> , 2018, 34, 267-297.	2.3	63
13	Novel two-chamber tubular microbial desalination cell for bioelectricity production, wastewater treatment and desalination with a focus on self-generated pH control. <i>Desalination</i> , 2020, 481, 114358.	4.0	57
14	A mini review on biofouling on air cathode of single chamber microbial fuel cell; prevention and mitigation strategies. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101370.	1.5	47
15	Optimization of a baffled-reactor microbial fuel cell using autotrophic denitrifying bio-cathode for removing nitrogen and recovering electrical energy. <i>Biochemical Engineering Journal</i> , 2017, 120, 93-102.	1.8	46
16	Improved recovery of bioenergy and osmotic water in an osmotic microbial fuel cell using micro-diffuser assisted marine aerobic biofilm on cathode. <i>Biochemical Engineering Journal</i> , 2017, 128, 235-242.	1.8	44
17	Ambient air quality and exposure assessment study of the Gulf Cooperation Council countries: A critical review. <i>Science of the Total Environment</i> , 2018, 636, 437-448.	3.9	44
18	Systematic Approach for the Prediction of Ground-Level Air Pollution (around an Industrial Port) Using an Artificial Neural Network. <i>Aerosol and Air Quality Research</i> , 2014, 14, 124-134.	0.9	43

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19	Simultaneous organics, sulphate and salt removal in a microbial desalination cell with an insight into microbial communities. <i>Desalination</i> , 2018, 445, 204-212.	4.0	40
20	Public perceptions of reusing treated wastewater for urban and industrial applications: challenges and opportunities. <i>Environment, Development and Sustainability</i> , 2020, 22, 1859-1871.	2.7	39
21	Enhanced power generation and desalination rate in a novel quadruple microbial desalination cell with a single desalination chamber. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109855.	8.2	38
22	Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. <i>Journal of Cleaner Production</i> , 2021, 288, 125597.	4.6	36
23	Efficient utilization of waste date pits for the synthesis of green diesel and jet fuel fractions. <i>Energy Conversion and Management</i> , 2016, 127, 226-232.	4.4	34
24	Artificial Neural Networks Modeling of Ozone Bubble Columns: Mass Transfer Coefficient, Gas Hold-Up, and Bubble Size. <i>Ozone: Science and Engineering</i> , 2007, 29, 343-352.	1.4	31
25	A sandwiched denitrifying biocathode in a microbial fuel cell for electricity generation and waste minimization. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1055-1064.	1.8	30
26	Energy recovery and carbon/nitrogen removal from sewage and contaminated groundwater in a coupled hydrolytic-acidogenic sequencing batch reactor and denitrifying biocathode microbial fuel cell. <i>Environmental Research</i> , 2020, 183, 109273.	3.7	30
27	Assessment of hydrogen sulfide emission from a sewage treatment plant using AERMOD. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 263.	1.3	27
28	Recycling of waste spent catalyst in road construction and masonry blocks. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 122-127.	6.5	26
29	Cleaner fuel production from waste <i>Phoenix dactylifera</i> L. kernel oil in the presence of a bimetallic catalyst: Optimization and kinetics study. <i>Energy Conversion and Management</i> , 2017, 146, 195-204.	4.4	25
30	Characterizing leachate contamination in a landfill site using Time Domain Electromagnetic (TDEM) imaging. <i>Journal of Applied Geophysics</i> , 2018, 151, 73-81.	0.9	25
31	Occupational exposure to pesticides and associated health effects among greenhouse farm workers. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22251-22270.	2.7	25
32	Perception, knowledge and attitude towards environmental issues and management among residents of Al-Suwaiq Wilayat, Sultanate of Oman. <i>International Journal of Sustainable Development and World Ecology</i> , 2016, 23, 433-440.	3.2	23
33	The modeling and health risk assessment of PM _{2.5} from Tema Oil Refinery. <i>Human and Ecological Risk Assessment (HERA)</i> , 2018, 24, 1181-1196.	1.7	22
34	Current Status of Marine Pollution and Mitigation Strategies in Arid Region: A Detailed Review. <i>Ocean Science Journal</i> , 2019, 54, 317-348.	0.6	19
35	Characterization of domestic wastewater treatment in Oman from three different regions and current implications of treated effluents. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 2701-2716.	1.3	18
36	Performance of AERMOD and CALPUFF models on SO ₂ and NO ₂ emissions for future health risk assessment in Tema Metropolis. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 772-786.	1.7	18

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37	Exposure assessment to road traffic noise levels and health effects in an arid urban area. <i>Environmental Science and Pollution Research</i> , 2020, 27, 35051-35064.	2.7	18
38	Association between human health and indoor air pollution in the Gulf Cooperation Council (GCC) countries: a review. <i>Reviews on Environmental Health</i> , 2020, 35, 157-171.	1.1	18
39	A critical review of environmental and public health impacts from the activities of evaporation ponds. <i>Science of the Total Environment</i> , 2021, 796, 149065.	3.9	18
40	Relative vulnerability of coastal Wilayats to development: a study of Al-Batinah North, Oman. <i>Journal of Coastal Conservation</i> , 2015, 19, 51-57.	0.7	17
41	Effect of internal and external resistances on desalination in microbial desalination cell. <i>Water Science and Technology</i> , 2021, 83, 2389-2403.	1.2	17
42	Utilizing Waste Spent Catalyst in Asphalt Mixtures. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 326-334.	0.5	16
43	Characterizing two inclined circular water jets plunging into an aeration tank. <i>International Journal of Multiphase Flow</i> , 2012, 40, 158-165.	1.6	16
44	Valorization of waste â€œdate seedsâ€ bio-glycerol for synthesizing oxidative green fuel additive. <i>Journal of Cleaner Production</i> , 2017, 165, 1090-1096.	4.6	16
45	Short and long-term impacts of ambient ozone on health in Ahvaz, Iran. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 1336-1351.	1.7	16
46	An Investigation into the Thermo-Physical, Mechanical, and Microstructural Properties of Cement Mortar Incorporating Hybrid Waste Slags. <i>International Journal of Civil Engineering</i> , 2021, 19, 17-26.	0.9	16
47	Groundwater contamination in the Gulf Cooperation Council (GCC) countries: a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 21023-21044.	2.7	14
48	Accumulation of intermediate denitrifying compounds inhibiting biological denitrification on cathode in Microbial Fuel Cell. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 81.	1.4	13
49	A review of recent renewable energy status and potentials in Oman. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101919.	1.7	13
50	El NiÃ±o southern-oscillation prediction using southern oscillation index and NiÃ±o3 as onset indicators: Application of artificial neural networks. <i>Journal of Environmental Engineering and Science</i> , 2005, 4, 113-121.	0.3	12
51	Measurement, control, and modeling of H2S emissions from a sewage treatment plant. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 2721-2732.	1.8	12
52	Waste <i>Balanites aegyptiaca</i> seed oil as a potential source for biodiesel production in the presence of a novel mixed metallic oxide catalyst. <i>International Journal of Energy Research</i> , 2021, 45, 17189-17202.	2.2	12
53	A review of geothermal energy status and potentials in Middle-East countries. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	12
54	Studying Groundwater Quality Affected by Barka Dumping Site: An Integrated Approach. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 5943-5957.	1.1	11

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55	Computational fluid dynamics application in modeling and improving the performance of a storage reservoir used as a contact chamber for microorganism inactivation. <i>Journal of Environmental Engineering and Science</i> , 2006, 5, 151-162.	0.3	10
56	Hydrodynamic Characterization and Mass Transfer Analysis of an In-Line Multi-Jets Ozone Contactor. <i>Ozone: Science and Engineering</i> , 2011, 33, 449-462.	1.4	10
57	Evaluation of vehicular pollution levels using line source model for hot spots in Muscat, Oman. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31184-31201.	2.7	10
58	Impinging-Jet Ozone Bubble Column Modeling: Hydrodynamics, Gas Hold-up, Bubble Characteristics, and Ozone Mass Transfer. <i>Ozone: Science and Engineering</i> , 2007, 29, 245-259.	1.4	9
59	Characterization of Domestic Wastewater Sludge in Oman from Three Different Regions and Recommendations for Alternative Reuse Applications. <i>Iranian Journal of Public Health</i> , 2014, 43, 168-77.	0.3	9
60	A downscaling-disaggregation approach for developing IDF curves in arid regions. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 245.	1.3	8
61	Citizen perception on environmental responsibility of the corporate sector in rural areas. <i>Environment, Development and Sustainability</i> , 2017, 19, 2565-2576.	2.7	7
62	Dispersion and deposition estimation of fugitive iron particles from an iron industry on nearby communities via AERMOD. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 655.	1.3	7
63	Sustainable risk-based analysis towards remediation of an aquifer impacted by crude oil spills. <i>Journal of Environmental Management</i> , 2019, 247, 333-341.	3.8	7
64	A critical review of the recently developed laboratory-scale municipal solid waste landfill leachate treatment technologies. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102011.	1.7	7
65	Phoenix <i>Dactylifera</i> Kernel Oil Used As Potential Source for Synthesizing Jet Fuel and Green Diesel. <i>Energy Procedia</i> , 2017, 118, 35-39.	1.8	6
66	Application of groundwater flow model in assessing aquifer layers interaction in arid catchment area. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 4577-4588.	1.8	6
67	Assessment of land degradation through people's perception and knowledge toward management in Oman. <i>Human and Ecological Risk Assessment (HERA)</i> , 2018, 24, 1464-1476.	1.7	5
68	Sustainable reuse options of treated effluents: a case study from Muscat, Oman. <i>Journal of Environmental Engineering and Science</i> , 2019, 14, 195-202.	0.3	5
69	Studies on Wastewater Treatment Using Solar Photocatalysis in Oman. <i>Applied Mechanics and Materials</i> , 0, 535, 106-109.	0.2	4
70	Hydrodynamic measurements and modeling in the coastal regions of Northern Oman. <i>Journal of Ocean Engineering and Marine Energy</i> , 2020, 6, 99-119.	0.9	4
71	Assessment of noise levels and induced annoyance in nearby residential areas of an airport region in Oman. <i>Environmental Science and Pollution Research</i> , 2021, 28, 45596-45608.	2.7	4
72	Characterization of Industrial Wastewater Sludge in Oman from Three Different Regions and Recommendations for Alternate Reuse Applications. <i>Iranian Journal of Public Health</i> , 2015, 44, 1473-81.	0.3	4

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73	Deposition Modeling of Airborne Particulate Matter on Human Respiratory Tract During Winter Seasons in Arid-Urban Environment. <i>Aerosol Science and Engineering</i> , 2022, 6, 71-85.	1.1	4
74	Bioenergy from Biofuel Residues and Wastes. <i>Water Environment Research</i> , 2014, 86, 1579-1613.	1.3	3
75	Textiles. <i>Water Environment Research</i> , 2017, 89, 1424-1440.	1.3	3
76	Residents' concerns and attitudes towards municipal solid waste management: opportunities for improved management. <i>International Journal of Environment and Waste Management</i> , 2019, 24, 93.	0.2	3
77	Multivariate statistical technique in the assessment of coastal water quality of Oman. <i>Journal of Environmental Engineering and Science</i> , 2020, 15, 141-153.	0.3	3
78	ASSESSMENT OF SEAWATER QUALITY ALONG NORTHERN COAST OF OMAN. , 2011, , 2002-2009.		3
79	Spatial regression approach to estimate synthetic unit hydrograph by geomorphic characteristics of watersheds in arid regions. <i>Journal of Arid Land</i> , 2020, 12, 950-963.	0.9	3
80	Petrochemicals. <i>Water Environment Research</i> , 2008, 80, 1510-1537.	1.3	2
81	PIV/PLIF Study of Impinging Jet Ozone Bubble Column with Mixing Nozzles. <i>Ozone: Science and Engineering</i> , 2010, 32, 99-112.	1.4	2
82	Effects of Pollution on Freshwater Organisms. <i>Water Environment Research</i> , 2014, 86, 1832-1868.	1.3	2
83	Bioenergy from Biofuel Residues and Wastes. <i>Water Environment Research</i> , 2017, 89, 1441-1460.	1.3	2
84	Multi-layer groundwater flow simulation in Al-Khoud lower catchment in Oman. <i>Journal of Applied Water Engineering and Research</i> , 0, , 1-11.	1.0	2
85	Effects of Pollution on Freshwater Organisms. <i>Water Environment Research</i> , 2015, 87, 1679-1717.	1.3	1
86	Simulation of Sediment Discharges during an Outfall Dredging Operation. <i>International Journal of Oceanography</i> , 2016, 2016, 1-10.	0.2	1
87	Radioactive Wastes. <i>Water Environment Research</i> , 2017, 89, 1487-1502.	1.3	1
88	Characterizing the unknown contribution of iron industries in atmospheric iron emissions using sensitivity analysis. <i>Journal of Aerosol Science</i> , 2021, 151, 105630.	1.8	1
89	Preliminary hazard assessment of air pollution levels in Nizwa, Rusayl and Sur in Oman. <i>Journal of Environmental Engineering and Science</i> , 2022, 17, 21-29.	0.3	1
90	Power Production Waste. <i>Water Environment Research</i> , 2010, 82, 1553-1559.	1.3	0

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91	Thermal Effects. Water Environment Research, 2013, 85, 1934-1953.	1.3	0
92	Characterization and exposure assessment to urban air toxics across Middle Eastern and North African countries: a review. Environmental Monitoring and Assessment, 2021, 193, 529.	1.3	0
93	Feasibility of treated wastewater application for aquifer recharge to defy saline water intrusion. , 2012, , 169-174.		0
94	The Importance of Environmental Issues for Civil Engineering Program Accreditation. , 2019, , .		0