

# 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  
g-index

94  
all docs

94  
docs citations

94  
times ranked

2303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary hazard assessment of air pollution levels in Nizwa, Rusayl and Sur in Oman. Journal of Environmental Engineering and Science, 2022, 17, 21-29.	0.3	1
2	A review of recent renewable energy status and potentials in Oman. Sustainable Energy Technologies and Assessments, 2022, 51, 101919.	1.7	13
3	Deposition Modeling of Airborne Particulate Matter on Human Respiratory Tract During Winter Seasons in Arid-Urban Environment. Aerosol Science and Engineering, 2022, 6, 71-85.	1.1	4
4	A critical review of the recently developed laboratory-scale municipal solid waste landfill leachate treatment technologies. Sustainable Energy Technologies and Assessments, 2022, 52, 102011.	1.7	7
5	Waste <i>Balanites aegyptiaca</i> seed oil as a potential source for biodiesel production in the presence of a novel mixed metallic oxide catalyst. International Journal of Energy Research, 2021, 45, 17189-17202.	2.2	12
6	Characterizing the unknown contribution of iron industries in atmospheric iron emissions using sensitivity analysis. Journal of Aerosol Science, 2021, 151, 105630.	1.8	1
7	Towards upscaling microbial desalination cell technology: A comprehensive review on current challenges and future prospects. Journal of Cleaner Production, 2021, 288, 125597.	4.6	36
8	An Investigation into the Thermo-Physical, Mechanical, and Microstructural Properties of Cement Mortar Incorporating Hybrid Waste Slags. International Journal of Civil Engineering, 2021, 19, 17-26.	0.9	16
9	A review of geothermal energy status and potentials in Middle-East countries. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	12
10	Groundwater contamination in the Gulf Cooperation Council (GCC) countries: a review. Environmental Science and Pollution Research, 2021, 28, 21023-21044.	2.7	14
11	Effect of internal and external resistances on desalination in microbial desalination cell. Water Science and Technology, 2021, 83, 2389-2403.	1.2	17
12	Assessment of noise levels and induced annoyance in nearby residential areas of an airport region in Oman. Environmental Science and Pollution Research, 2021, 28, 45596-45608.	2.7	4
13	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
14	A critical review of environmental and public health impacts from the activities of evaporation ponds. Science of the Total Environment, 2021, 796, 149065.	3.9	18
15	Public perceptions of reusing treated wastewater for urban and industrial applications: challenges and opportunities. Environment, Development and Sustainability, 2020, 22, 1859-1871.	2.7	39
16	Techno-economic evaluation of biogas production from food waste via anaerobic digestion. Scientific Reports, 2020, 10, 15719.	1.6	87
17	Impact of building ventilation systems and habitual indoor incense burning on SARS-CoV-2 virus transmissions in Middle Eastern countries. Science of the Total Environment, 2020, 733, 139356.	3.9	64
18	Evaluation of vehicular pollution levels using line source model for hot spots in Muscat, Oman. Environmental Science and Pollution Research, 2020, 27, 31184-31201.	2.7	10

#	ARTICLE	IF	CITATIONS
19	Multivariate statistical technique in the assessment of coastal water quality of Oman. Journal of Environmental Engineering and Science, 2020, 15, 141-153.	0.3	3
20	Exposure assessment to road traffic noise levels and health effects in an arid urban area. Environmental Science and Pollution Research, 2020, 27, 35051-35064.	2.7	18
21	Application of groundwater flow model in assessing aquifer layers interaction in arid catchment area. International Journal of Environmental Science and Technology, 2020, 17, 4577-4588.	1.8	6
22	Association between human health and indoor air pollution in the Gulf Cooperation Council (GCC) countries: a review. Reviews on Environmental Health, 2020, 35, 157-171.	1.1	18
23	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. Environmental Research, 2020, 183, 109273.	3.7	30
24	Novel two-chamber tubular microbial desalination cell for bioelectricity production, wastewater treatment and desalination with a focus on self-generated pH control. Desalination, 2020, 481, 114358.	4.0	57
25	Occupational exposure to pesticides and associated health effects among greenhouse farm workers. Environmental Science and Pollution Research, 2020, 27, 22251-22270.	2.7	25
26	Hydrodynamic measurements and modeling in the coastal regions of Northern Oman. Journal of Ocean Engineering and Marine Energy, 2020, 6, 99-119.	0.9	4
27	Enhanced power generation and desalination rate in a novel quadruple microbial desalination cell with a single desalination chamber. Renewable and Sustainable Energy Reviews, 2020, 127, 109855.	8.2	38
28	Spatial regression approach to estimate synthetic unit hydrograph by geomorphic characteristics of watersheds in arid regions. Journal of Arid Land, 2020, 12, 950-963.	0.9	3
29	Short and long-term impacts of ambient ozone on health in Ahvaz, Iran. Human and Ecological Risk Assessment (HERA), 2019, 25, 1336-1351.	1.7	16
30	Sustainable risk-based analysis towards remediation of an aquifer impacted by crude oil spills. Journal of Environmental Management, 2019, 247, 333-341.	3.8	7
31	Current Status of Marine Pollution and Mitigation Strategies in Arid Region: A Detailed Review. Ocean Science Journal, 2019, 54, 317-348.	0.6	19
32	Effects of pollution on freshwater aquatic organisms. Water Environment Research, 2019, 91, 1272-1287.	1.3	125
33	Residents' concerns and attitudes towards municipal solid waste management: opportunities for improved management. International Journal of Environment and Waste Management, 2019, 24, 93.	0.2	3
34	Sustainable reuse options of treated effluents: a case study from Muscat, Oman. Journal of Environmental Engineering and Science, 2019, 14, 195-202.	0.3	5
35	A mini review on biofouling on air cathode of single chamber microbial fuel cell; prevention and mitigation strategies. Biocatalysis and Agricultural Biotechnology, 2019, 22, 101370.	1.5	47
36	Emissions and exposure assessments of SOX, NOX, PM10/2.5 and trace metals from oil industries: A review study (2000â€“2018). Chemical Engineering Research and Design, 2019, 123, 215-228.	2.7	93

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37	Measurement, control, and modeling of H <sub>2</sub> S emissions from a sewage treatment plant. International Journal of Environmental Science and Technology, 2019, 16, 2721-2732.	1.8	12
38	A downscaling-disaggregation approach for developing IDF curves in arid regions. Environmental Monitoring and Assessment, 2019, 191, 245.	1.3	8
39	Performance of AERMOD and CALPUFF models on SO <sub>2</sub> and NO <sub>2</sub> emissions for future health risk assessment in Tema Metropolis. Human and Ecological Risk Assessment (HERA), 2019, 25, 772-786.	1.7	18
40	The Importance of Environmental Issues for Civil Engineering Program Accreditation. , 2019, , .		0
41	Characterizing leachate contamination in a landfill site using Time Domain Electromagnetic (TDEM) imaging. Journal of Applied Geophysics, 2018, 151, 73-81.	0.9	25
42	A review of microbial desalination cell technology: Configurations, optimization and applications. Journal of Cleaner Production, 2018, 183, 458-480.	4.6	134
43	The modeling and health risk assessment of PM <sub>2.5</sub> from Tema Oil Refinery. Human and Ecological Risk Assessment (HERA), 2018, 24, 1181-1196.	1.7	22
44	Ambient air quality and exposure assessment study of the Gulf Cooperation Council countries: A critical review. Science of the Total Environment, 2018, 636, 437-448.	3.9	44
45	Current scenario of catalysts for biodiesel production: a critical review. Reviews in Chemical Engineering, 2018, 34, 267-297.	2.3	63
46	Towards the optimization of sustainable food-energy-water systems: A stochastic approach. Journal of Cleaner Production, 2018, 171, 662-674.	4.6	95
47	Biodiesel production by valorizing waste Phoenix dactylifera L. Kernel oil in the presence of synthesized heterogeneous metallic oxide catalyst (Mn@MgO-ZrO <sub>2</sub> ). Energy Conversion and Management, 2018, 155, 128-137.	4.4	90
48	Indoor air pollution and exposure assessment of the gulf cooperation council countries: A critical review. Environment International, 2018, 121, 491-506.	4.8	82
49	Dispersion and deposition estimation of fugitive iron particles from an iron industry on nearby communities via AERMOD. Environmental Monitoring and Assessment, 2018, 190, 655.	1.3	7
50	Assessment of land degradation through people's perception and knowledge toward management in Oman. Human and Ecological Risk Assessment (HERA), 2018, 24, 1464-1476.	1.7	5
51	Simultaneous organics, sulphate and salt removal in a microbial desalination cell with an insight into microbial communities. Desalination, 2018, 445, 204-212.	4.0	40
52	Optimization of a baffled-reactor microbial fuel cell using autotrophic denitrifying bio-cathode for removing nitrogen and recovering electrical energy. Biochemical Engineering Journal, 2017, 120, 93-102.	1.8	46
53	Valorization of waste Date pits biomass for biodiesel production in presence of green carbon catalyst. Energy Conversion and Management, 2017, 135, 236-243.	4.4	68
54	Ultimate composition analysis of municipal solid waste in Muscat. Journal of Cleaner Production, 2017, 148, 355-362.	4.6	66

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55	Citizen perception on environmental responsibility of the corporate sector in rural areas. Environment, Development and Sustainability, 2017, 19, 2565-2576.	2.7	7
56	Assessment of hydrogen sulfide emission from a sewage treatment plant using AERMOD. Environmental Monitoring and Assessment, 2017, 189, 263.	1.3	27
57	Cleaner fuel production from waste Phoenix dactylifera L. kernel oil in the presence of a bimetallic catalyst: Optimization and kinetics study. Energy Conversion and Management, 2017, 146, 195-204.	4.4	25
58	Phoenix Dactylifera Kernel Oil Used As Potential Source for Synthesizing Jet Fuel and Green Diesel. Energy Procedia, 2017, 118, 35-39.	1.8	6
59	Improved recovery of bioenergy and osmotic water in an osmotic microbial fuel cell using micro-diffuser assisted marine aerobic biofilm on cathode. Biochemical Engineering Journal, 2017, 128, 235-242.	1.8	44
60	Valorization of waste "date seeds" bio-glycerol for synthesizing oxidative green fuel additive. Journal of Cleaner Production, 2017, 165, 1090-1096.	4.6	16
61	Bioenergy from Biofuel Residues and Wastes. Water Environment Research, 2017, 89, 1441-1460.	1.3	2
62	Radioactive Wastes. Water Environment Research, 2017, 89, 1487-1502.	1.3	1
63	Textiles. Water Environment Research, 2017, 89, 1424-1440.	1.3	3
64	Simulation of Sediment Discharges during an Outfall Dredging Operation. International Journal of Oceanography, 2016, 2016, 1-10.	0.2	1
65	Efficient utilization of waste date pits for the synthesis of green diesel and jet fuel fractions. Energy Conversion and Management, 2016, 127, 226-232.	4.4	34
66	A sandwiched denitrifying biocathode in a microbial fuel cell for electricity generation and waste minimization. International Journal of Environmental Science and Technology, 2016, 13, 1055-1064.	1.8	30
67	Perception, knowledge and attitude towards environmental issues and management among residents of Al-Suwaïq Wilayat, Sultanate of Oman. International Journal of Sustainable Development and World Ecology, 2016, 23, 433-440.	3.2	23
68	Accumulation of intermediate denitrifying compounds inhibiting biological denitrification on cathode in Microbial Fuel Cell. Journal of Environmental Health Science & Engineering, 2015, 13, 81.	1.4	13
69	Effects of Pollution on Freshwater Organisms. Water Environment Research, 2015, 87, 1679-1717.	1.3	1
70	Relative vulnerability of coastal Wilayats to development: a study of Al-Batinah North, Oman. Journal of Coastal Conservation, 2015, 19, 51-57.	0.7	17
71	Characterization of Industrial Wastewater Sludge in Oman from Three Different Regions and Recommendations for Alternate Reuse Applications. Iranian Journal of Public Health, 2015, 44, 1473-81.	0.3	4
72	Effects of Pollution on Freshwater Organisms. Water Environment Research, 2014, 86, 1832-1868.	1.3	2

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73	Bioenergy from Biofuel Residues and Wastes. Water Environment Research, 2014, 86, 1579-1613.	1.3	3
74	Characterization of domestic wastewater treatment in Oman from three different regions and current implications of treated effluents. Environmental Monitoring and Assessment, 2014, 186, 2701-2716.	1.3	18
75	Studying Groundwater Quality Affected by Barka Dumping Site: An Integrated Approach. Arabian Journal for Science and Engineering, 2014, 39, 5943-5957.	1.1	11
76	Systematic Approach for the Prediction of Ground-Level Air Pollution (around an Industrial Port) Using an Artificial Neural Network. Aerosol and Air Quality Research, 2014, 14, 124-134.	0.9	43
77	Characterization of Domestic Wastewater Sludge in Oman from Three Different Regions and Recommendations for Alternative Reuse Applications. Iranian Journal of Public Health, 2014, 43, 168-77.	0.3	9
78	Potential use of FCC spent catalyst as partial replacement of cement or sand in cement mortars. Construction and Building Materials, 2013, 39, 77-81.	3.2	65
79	Thermal Effects. Water Environment Research, 2013, 85, 1934-1953.	1.3	0
80	Recycling of waste spent catalyst in road construction and masonry blocks. Journal of Hazardous Materials, 2012, 229-230, 122-127.	6.5	26
81	Utilizing Waste Spent Catalyst in Asphalt Mixtures. Procedia, Social and Behavioral Sciences, 2012, 53, 326-334.	0.5	16
82	Characterizing two inclined circular water jets plunging into an aeration tank. International Journal of Multiphase Flow, 2012, 40, 158-165.	1.6	16
83	Feasibility of treated wastewater application for aquifer recharge to defy saline water intrusion. , 2012, , 169-174.		0
84	Hydrodynamic Characterization and Mass Transfer Analysis of an In-Line Multi-Jets Ozone Contactor. Ozone: Science and Engineering, 2011, 33, 449-462.	1.4	10
85	ASSESSMENT OF SEAWATER QUALITY ALONG NORTHERN COAST OF OMAN. , 2011, , 2002-2009.		3
86	Power Production Waste. Water Environment Research, 2010, 82, 1553-1559.	1.3	0
87	PIV/PLIF Study of Impinging Jet Ozone Bubble Column with Mixing Nozzles. Ozone: Science and Engineering, 2010, 32, 99-112.	1.4	2
88	Petrochemicals. Water Environment Research, 2008, 80, 1510-1537.	1.3	2
89	Artificial Neural Networks Modeling of Ozone Bubble Columns: Mass Transfer Coefficient, Gas Hold-Up, and Bubble Size. Ozone: Science and Engineering, 2007, 29, 343-352.	1.4	31
90	Impinging-Jet Ozone Bubble Column Modeling: Hydrodynamics, Gas Hold-up, Bubble Characteristics, and Ozone Mass Transfer. Ozone: Science and Engineering, 2007, 29, 245-259.	1.4	9

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91	Computational fluid dynamics application in modeling and improving the performance of a storage reservoir used as a contact chamber for microorganism inactivation. Journal of Environmental Engineering and Science, 2006, 5, 151-162.	0.3	10
92	El Niño southern-oscillation prediction using southern oscillation index and Niño3 as onset indicators: Application of artificial neural networks. Journal of Environmental Engineering and Science, 2005, 4, 113-121.	0.3	12
93	Studies on Wastewater Treatment Using Solar Photocatalysis in Oman. Applied Mechanics and Materials, 0, 535, 106-109.	0.2	4
94	Multi-layer groundwater flow simulation in Al-Khoud lower catchment in Oman. Journal of Applied Water Engineering and Research, 0, , 1-11.	1.0	2