

# Mohamed Mohamed

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

1,617  
citations

236612

25  
h-index

395343

33  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Land subsidence and sinkholes susceptibility mapping and analysis using random forest and frequency ratio models in Al Ain, UAE. <i>Geocarto International</i> , 2022, 37, 315-331.	1.7	24
2	A comparative assessment of modeling groundwater vulnerability using DRASTIC method from GIS and a novel classification method using machine learning classifiers. <i>Geocarto International</i> , 2022, 37, 5832-5850.	1.7	15
3	Hydrological modeling of Ar Rub Al Khali, Arabian Peninsula: a modified remote sensing approach based on the weight of hydrological evidence. <i>Geocarto International</i> , 2022, 37, 6251-6271.	1.7	5
4	Novel treatment of <i>Microcystis aeruginosa</i> using chitosan-modified nanobubbles. <i>Environmental Pollution</i> , 2022, 292, 118458.	3.7	13
5	A critical review of the recent developments in micro-“nano bubbles applications for domestic and industrial wastewater treatment. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 6591-6612.	3.4	55
6	How China’s Fengyun satellite precipitation product compares with other mainstream satellite precipitation products. <i>Journal of Hydrometeorology</i> , 2022, , .	0.7	4
7	Selection criteria of best sites for aquifer storage and recovery in the Eastern District of Abu Dhabi, United Arab Emirates. <i>Groundwater for Sustainable Development</i> , 2022, 18, 100771.	2.3	5
8	Utilization of social media in floods assessment using data mining techniques. <i>PLoS ONE</i> , 2022, 17, e0267079.	1.1	11
9	Hydrologic utility of satellite precipitation products in flood prediction: A meta-data analysis and lessons learnt. <i>Journal of Hydrology</i> , 2022, 612, 128103.	2.3	17
10	Automated detection of lineaments express geological linear features of a tropical region using topographic fabric grain algorithm and the SRTM DEM. <i>Geocarto International</i> , 2021, 36, 76-95.	1.7	10
11	Using microalgae for remediation of crude petroleum <sc>oil“water</sc> emulsions. <i>Biotechnology Progress</i> , 2021, 37, e3098.	1.3	14
12	Enhanced degradation of benzo[a]pyrene and toxicity reduction by microbubble ozonation. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1853-1860.	1.2	19
13	Review on the use of environmental isotopes for groundwater recharge and evaporation studies in the GCC countries. <i>Groundwater for Sustainable Development</i> , 2021, 12, 100546.	2.3	11
14	Unveiling the Potential Role of Nanozymes in Combating the COVID-19 Outbreak. <i>Nanomaterials</i> , 2021, 11, 1328.	1.9	9
15	Performance of the IMERG Precipitation Products over High-latitudes Region of Finland. <i>Remote Sensing</i> , 2021, 13, 2073.	1.8	7
16	Regional Mapping of Groundwater Potential in Ar Rub Al Khali, Arabian Peninsula Using the Classification and Regression Trees Model. <i>Remote Sensing</i> , 2021, 13, 2300.	1.8	20
17	Microgravity monitoring of groundwater dynamics in a shallow aquifer in Al-Ain (Abu Dhabi Emirate,) <i>Tj ETQq1 1 0.784314 rgBT /Overbo</i> <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	3
18	Impact of land use/land cover changes on groundwater resources in Al Ain region of the United Arab Emirates using remote sensing and GIS techniques. <i>Groundwater for Sustainable Development</i> , 2021, 14, 100587.	2.3	33

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19	Understanding the activity of Radon-222 in a sand dune aquifer of an arid region through the application of machine learning. <i>Groundwater for Sustainable Development</i> , 2021, 15, 100667.	2.3	4
20	Development of a dynamic water budget model for Abu Dhabi Emirate, UAE. <i>PLoS ONE</i> , 2021, 16, e0245140.	1.1	6
21	Impact of Topography and Rainfall Intensity on the Accuracy of IMERG Precipitation Estimates in an Arid Region. <i>Remote Sensing</i> , 2021, 13, 13.	1.8	34
22	Meta-Analysis in Using Satellite Precipitation Products for Drought Monitoring: Lessons Learnt and Way Forward. <i>Remote Sensing</i> , 2021, 13, 4353.	1.8	15
23	Remediation of NAPL-contaminated porous media using micro-nano ozone bubbles: Bench-scale experiments. <i>Journal of Contaminant Hydrology</i> , 2020, 228, 103563.	1.6	7
24	Essential components of institutional and social indicators in assessing the sustainability and resilience of urban water systems: Challenges and opportunities. <i>Science of the Total Environment</i> , 2020, 708, 135159.	3.9	20
25	Evaluation of policy scenarios for water resources planning and management in an arid region. <i>Journal of Hydrology: Regional Studies</i> , 2020, 32, 100758.	1.0	10
26	Topographically and hydrologically signatures express subsurface geological structures in an arid region: a modified integrated approach using remote sensing and GIS. <i>Geocarto International</i> , 2020, , 1-21.	1.7	5
27	Temporal assessment of the GPM satellite rainfall products across extremely arid regions. <i>E3S Web of Conferences</i> , 2020, 167, 02001.	0.2	1
28	Flash Flood Susceptibility Modeling and Magnitude Index Using Machine Learning and Geohydrological Models: A Modified Hybrid Approach. <i>Remote Sensing</i> , 2020, 12, 2695.	1.8	29
29	Modeling Micro- and Nano-Bubble Stability and Treatment Mechanisms in Batch Reactors. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, 04020079.	0.7	5
30	Land Use/Land Cover Changes Impact on Groundwater Level and Quality in the Northern Part of the United Arab Emirates. <i>Remote Sensing</i> , 2020, 12, 1715.	1.8	38
31	Optimized Pumping Strategy for Reducing the Spatial Extent of Saltwater Intrusion along the Coast of Wadi Ham, UAE. <i>Water (Switzerland)</i> , 2020, 12, 1503.	1.2	7
32	Spatiotemporal Mapping and Monitoring of Mangrove Forests Changes From 1990 to 2019 in the Northern Emirates, UAE Using Random Forest, Kernel Logistic Regression and Naive Bayes Tree Models. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	38
33	Distribution of uranium isotopes in groundwater of the UAE: environmental radioactivity assessment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 325, 57-66.	0.7	3
34	Application of spatial analysis to investigate contribution of VOCs to photochemical ozone creation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 10459-10471.	2.7	2
35	Distribution of Heavy Metals in Vegetative Biofiltration Columns. <i>Water (Switzerland)</i> , 2020, 12, 747.	1.2	1
36	Microbubble ozonation of the antioxidant butylated hydroxytoluene: Degradation kinetics and toxicity reduction. <i>Environmental Research</i> , 2020, 186, 109496.	3.7	30

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37	Modeling the mitigation of seawater intrusion by pumping of brackish water from the coastal aquifer of Wadi Ham, UAE. Sustainable Water Resources Management, 2019, 5, 1435-1451.	1.0	9
38	Hydrochemical Analysis of Groundwater in Remah and Al Khatim Regions, United Arab Emirates. Hydrology, 2019, 6, 60.	1.3	19
39	Spatiotemporal evaluation of the GPM satellite precipitation products over the United Arab Emirates. Atmospheric Research, 2019, 219, 200-212.	1.8	49
40	Trend Analysis and Spatial Prediction of Groundwater Levels Using Time Series Forecasting and a Novel Spatio-Temporal Method. Water Resources Management, 2019, 33, 1425-1437.	1.9	37
41	Assessment of Aquifer Storage and Recovery (ASR) feasibility at selected sites in the Emirate of Abu Dhabi, UAE. Environmental Earth Sciences, 2018, 77, 1.	1.3	13
42	Monitoring and analysing the Emirate of Dubai's land use/land cover changes: an integrated, low-cost remote sensing approach. International Journal of Digital Earth, 2018, 11, 1132-1150.	1.6	16
43	Health Risk Assessment of Household Drinking Water in a District in the UAE. Water (Switzerland), 2018, 10, 1726.	1.2	14
44	Regional groundwater flow model for Abu Dhabi Emirate: scenario-based investigation. Environmental Earth Sciences, 2018, 77, 1.	1.3	8
45	Fuzzy logic and multi-criteria methods for groundwater potentiality mapping at Al Foah area, the United Arab Emirates (UAE): an integrated approach. Geocarto International, 2017, 32, 1120-1138.	1.7	34
46	Evaluation of Groundwater Quality in the Eastern District of Abu Dhabi Emirate, UAE. Bulletin of Environmental Contamination and Toxicology, 2017, 98, 385-391.	1.3	8
47	Remote sensing of the Grand Ethiopian Renaissance Dam: a hazard and environmental impacts assessment. Geomatics, Natural Hazards and Risk, 2017, 8, 1225-1240.	2.0	19
48	Factors controlling the changes and spatial variability of Junipers phoenicea in Jabal Al Akhdar, Libya, using remote sensing and GIS. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	3
49	Land use/land cover change impact on groundwater quantity and quality: a case study of Ajman Emirate, the United Arab Emirates, using remote sensing and GIS. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	28
50	Hydrochemistry assessment of groundwater quality in Al-Ain city, UAE. Environmental Earth Sciences, 2016, 75, 1.	1.3	10
51	Groundwater modeling as a precursor tool for water resources sustainability in Khatt area, UAE. Environmental Earth Sciences, 2016, 75, 1.	1.3	10
52	Remote sensing and information value (IV) model for regional mapping of fluvial channels and topographic wetness in the Saudi Arabia. GIScience and Remote Sensing, 2016, 53, 520-541.	2.4	7
53	Application of a weighted spatial probability model in GIS to analyse landslides in Penang Island, Malaysia. Geomatics, Natural Hazards and Risk, 2016, 7, 345-359.	2.0	23
54	Fuzzy-based wastewater quality indices for pollution classification: a case study in the United Arab Emirates. Environment Systems and Decisions, 2016, 36, 62-71.	1.9	5

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55	Automatic Feature Extraction Module for Change Detection in Al Ain, UAE: Analysis by Means of Multi-temporal Remote Sensing Data. <i>Journal of the Indian Society of Remote Sensing</i> , 2016, 44, 1-10.	1.2	12
56	Mapping of tecto-lineaments and investigate their association with earthquakes in Egypt: a hybrid approach using remote sensing data. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 600-619.	2.0	28
57	Environmental Engineering Education in the UAE. , 2016, , 301-320.		0
58	Natural and anthropogenic factors affecting groundwater quality in the eastern region of the United Arab Emirates. <i>Arabian Journal of Geosciences</i> , 2015, 8, 7409-7423.	0.6	10
59	Remote sensing and geophysical survey applications for delineating near-surface palaeochannels and shallow aquifer in the United Arab Emirates. <i>Geocarto International</i> , 2015, 30, 723-736.	1.7	19
60	Groundwater of Abu Dhabi Emirate: a regional assessment by means of remote sensing and geographic information system. <i>Arabian Journal of Geosciences</i> , 2015, 8, 11279-11292.	0.6	27
61	Mapping and classification of hydrological parameters from digital terrain data in the Musandam Peninsula, UAE and Oman. <i>Geocarto International</i> , 2015, 30, 330-345.	1.7	5
62	Probabilistic frequency ratio model for groundwater potential mapping in Al Jaww plain, UAE. <i>Arabian Journal of Geosciences</i> , 2015, 8, 2405-2416.	0.6	45
63	Utilization of isotopes in hydrogeological studies in UAE: A review. , 2015, , .		0
64	Automatic detection of near surface geological and hydrological features and investigating their influence on groundwater accumulation and salinity in southwest Egypt using remote sensing and GIS. <i>Geocarto International</i> , 2014, , 1-13.	1.7	13
65	Relationship between geological structures and groundwater flow and groundwater salinity in Al Jaaw Plain, United Arab Emirates; mapping and analysis by means of remote sensing and GIS. <i>Arabian Journal of Geosciences</i> , 2014, 7, 1249-1259.	0.6	34
66	Groundwater potential modelling using remote sensing and GIS: a case study of the Al Dhaid area, United Arab Emirates. <i>Geocarto International</i> , 2014, 29, 433-450.	1.7	54
67	Capture and release zones of permeable reactive barriers under the influence of advective“dispersive transport in the aquifer. <i>Advances in Water Resources</i> , 2014, 69, 79-94.	1.7	6
68	Influence of geological structures on groundwater accumulation and groundwater salinity in Musandam Peninsula, UAE and Oman. <i>Geocarto International</i> , 2013, 28, 453-472.	1.7	33
69	Remote sensing and GIS applications of surface and near-surface hydromorphological features in Darfur region, Sudan. <i>International Journal of Remote Sensing</i> , 2013, 34, 4715-4735.	1.3	30
70	Natural hazards susceptibility mapping in Kuala Lumpur, Malaysia: an assessment using remote sensing and geographic information system (GIS). <i>Geomatics, Natural Hazards and Risk</i> , 2013, 4, 71-91.	2.0	31
71	Rainfall-Runoff Modeling of Three Wadis in the Northern Area of UAE. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 10-20.	0.8	45
72	Dimensionless parameters to summarize the influence of microbial growth and inhibition on the bioremediation of groundwater contaminants. <i>Biodegradation</i> , 2011, 22, 877-896.	1.5	12

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73	Assessment of groundwater quality in the northeastern coastal area of UAE as precursor for desalination. <i>Desalination</i> , 2011, 273, 436-446.	4.0	45
74	Sensitivity of Benzene Natural Attenuation to Variations in Kinetic and Transport Parameters in Liwa Aquifer, UAE. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 84, 443-449.	1.3	25
75	Modeling in situ benzene bioremediation in the contaminated Liwa aquifer (UAE) using the slow-release oxygen source technique. <i>Environmental Earth Sciences</i> , 2010, 61, 1385-1399.	1.3	27
76	Water Demand Forecasting in Umm Al-Quwain (UAE) Using the IWR-MAIN Specify Forecasting Model. <i>Water Resources Management</i> , 2010, 24, 4093-4120.	1.9	45
77	Stochastic evaluation of subsurface contaminant discharges under physical, chemical, and biological heterogeneities. <i>Advances in Water Resources</i> , 2010, 33, 801-812.	1.7	10
78	Water demand forecasting in Umm Al-Quwain using the constant rate model. <i>Desalination</i> , 2010, 259, 161-168.	4.0	40
79	A routing protocol and addressing scheme for oil, gas, and water pipeline monitoring using wireless sensor networks. , 2008, , .		41
80	Evaluation of Monod kinetic parameters in the subsurface using moment analysis: Theory and numerical testing. <i>Advances in Water Resources</i> , 2007, 30, 2034-2050.	1.7	24
81	Monte Carlo evaluation of microbial-mediated contaminant reactions in heterogeneous aquifers. <i>Advances in Water Resources</i> , 2006, 29, 1123-1139.	1.7	24
82	Modeling microbial-mediated reduction in batch reactors. <i>Chemosphere</i> , 2005, 59, 1207-1217.	4.2	19
83	On using particle tracking methods to simulate transport in single-continuum and dual continua porous media. <i>Journal of Hydrology</i> , 2003, 275, 242-260.	2.3	57
84	Land Use/Land Cover Changes Monitoring and Analysis of Dubai Emirate, UAE Using Multi-Temporal Remote Sensing Data. , 0, , .		5