

Mohamed Mohamed

List of Publications by Year in descending order

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84
papers

1,617
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236612

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docs citations

86
times ranked

1171
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Spatiotemporal evaluation of the GPM satellite precipitation products over the United Arab Emirates. <i>Atmospheric Research</i> , 2019, 219, 200-212.	1.8	49
5	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
6	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
7	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
8	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
9	A routing protocol and addressing scheme for oil, gas, and water pipeline monitoring using wireless sensor networks. , 2008, , .		41
10	Water demand forecasting in Umm Al-Quwain using the constant rate model. <i>Desalination</i> , 2010, 259, 161-168.	4.0	40
11	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
12	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
13	Trend Analysis and Spatial Prediction of Groundwater Levels Using Time Series Forecasting and a Novel Spatio-Temporal Method. <i>Water Resources Management</i> , 2019, 33, 1425-1437.	1.9	37
14	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
15	Fuzzy logic and multi-criteria methods for groundwater potentiality mapping at Al Foah area, the United Arab Emirates (UAE): an integrated approach. <i>Geocarto International</i> , 2017, 32, 1120-1138.	1.7	34
16	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
17	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
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	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
20	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
21	Microbubble ozonation of the antioxidant butylated hydroxytoluene: Degradation kinetics and toxicity reduction. <i>Environmental Research</i> , 2020, 186, 109496.	3.7	30
22	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
23	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. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	28
24	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
25	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
26	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
27	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
28	Monte Carlo evaluation of microbial-mediated contaminant reactions in heterogeneous aquifers. <i>Advances in Water Resources</i> , 2006, 29, 1123-1139.	1.7	24
29	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
30	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
31	Application of a weighted spatial probability model in GIS to analyse landslides in Penang Island, Malaysia. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 345-359.	2.0	23
32	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
33	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
34	Modeling microbial-mediated reduction in batch reactors. <i>Chemosphere</i> , 2005, 59, 1207-1217.	4.2	19
35	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
36	Remote sensing of the Grand Ethiopian Renaissance Dam: a hazard and environmental impacts assessment. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 1225-1240.	2.0	19

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37	Hydrochemical Analysis of Groundwater in Remah and Al Khatim Regions, United Arab Emirates. <i>Hydrology</i> , 2019, 6, 60.	1.3	19
38	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
39	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
40	Monitoring and analysing the Emirate of Dubai's land use/land cover changes: an integrated, low-cost remote sensing approach. <i>International Journal of Digital Earth</i> , 2018, 11, 1132-1150.	1.6	16
41	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
42	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
43	Health Risk Assessment of Household Drinking Water in a District in the UAE. <i>Water (Switzerland)</i> , 2018, 10, 1726.	1.2	14
44	Using microalgae for remediation of crude petroleum <sc>oil"water</sc> emulsions. <i>Biotechnology Progress</i> , 2021, 37, e3098.	1.3	14
45	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
46	Assessment of Aquifer Storage and Recovery (ASR) feasibility at selected sites in the Emirate of Abu Dhabi, UAE. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	13
47	Novel treatment of <i>Microcystis aeruginosa</i> using chitosan-modified nanobubbles. <i>Environmental Pollution</i> , 2022, 292, 118458.	3.7	13
48	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
49	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
50	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
51	Utilization of social media in floods assessment using data mining techniques. <i>PLoS ONE</i> , 2022, 17, e0267079.	1.1	11
52	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
53	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
54	Hydrochemistry assessment of groundwater quality in Al-Ain city, UAE. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	10

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55	Groundwater modeling as a precursor tool for water resources sustainability in Khatt area, UAE. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	10
56	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
57	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
58	Modeling the mitigation of seawater intrusion by pumping of brackish water from the coastal aquifer of Wadi Ham, UAE. <i>Sustainable Water Resources Management</i> , 2019, 5, 1435-1451.	1.0	9
59	Unveiling the Potential Role of Nanozymes in Combating the COVID-19 Outbreak. <i>Nanomaterials</i> , 2021, 11, 1328.	1.9	9
60	Evaluation of Groundwater Quality in the Eastern District of Abu Dhabi Emirate, UAE. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 98, 385-391.	1.3	8
61	Regional groundwater flow model for Abu Dhabi Emirate: scenario-based investigation. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	8
62	Remote sensing and information value (IV) model for regional mapping of fluvial channels and topographic wetness in the Saudi Arabia. <i>GIScience and Remote Sensing</i> , 2016, 53, 520-541.	2.4	7
63	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
64	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
65	Performance of the IMERG Precipitation Products over High-latitudes Region of Finland. <i>Remote Sensing</i> , 2021, 13, 2073.	1.8	7
66	Capture and release zones of permeable reactive barriers under the influence of advectiveâ€dispersive transport in the aquifer. <i>Advances in Water Resources</i> , 2014, 69, 79-94.	1.7	6
67	Development of a dynamic water budget model for Abu Dhabi Emirate, UAE. <i>PLoS ONE</i> , 2021, 16, e0245140.	1.1	6
68	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
69	Fuzzy-based wastewater quality indices for pollution classification: a case study in the United Arab Emirates. <i>Environment Systems and Decisions</i> , 2016, 36, 62-71.	1.9	5
70	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
71	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
72	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

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73	Land Use/Land Cover Changes Monitoring and Analysis of Dubai Emirate, UAE Using Multi-Temporal Remote Sensing Data. , 0, , .		5
74	Selection criteria of best sites for aquifer storage and recovery in the Eastern District of Abu Dhabi, United Arab Emirates. Groundwater for Sustainable Development, 2022, 18, 100771.	2.3	5
75	Understanding the activity of Radon-222 in a sand dune aquifer of an arid region through the application of machine learning. Groundwater for Sustainable Development, 2021, 15, 100667.	2.3	4
76	How Chinaâ€™s Fengyun satellite precipitation product compares with other mainstream satellite precipitation products. Journal of Hydrometeorology, 2022, , .	0.7	4
77	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
78	Distribution of uranium isotopes in groundwater of the UAE: environmental radioactivity assessment. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 57-66.	0.7	3
79	Microgravity monitoring of groundwater dynamics in a shallow aquifer in Al-Ain (Abu Dhabi Emirate,) Tj ETQq1 1 0.784314 rgBT /Overbo Environmental Earth Sciences, 2021, 80, 1.	1.3	3
80	Application of spatial analysis to investigate contribution of VOCs to photochemical ozone creation. Environmental Science and Pollution Research, 2020, 27, 10459-10471.	2.7	2
81	Temporal assessment of the GPM satellite rainfall products across extremely arid regions. E3S Web of Conferences, 2020, 167, 02001.	0.2	1
82	Distribution of Heavy Metals in Vegetative Biofiltration Columns. Water (Switzerland), 2020, 12, 747.	1.2	1
83	Utilization of isotopes in hydrogeological studies in UAE: A review. , 2015, , .		0
84	Environmental Engineering Education in the UAE. , 2016, , 301-320.		0