Mohamed Sultan

List of Publications by Year in descending order

48 papers	2,334 citations	186265 28 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	1607 citing authors

#	Article	IF	Citations
1	The use of GRACE data to monitor natural and anthropogenic induced variations in water availability across Africa. Earth-Science Reviews, 2014, 136, 289-300.	9.1	145
2	Precipitation Source Inferred from Stable Isotopic Composition of Pleistocene Groundwater and Carbonate Deposits in the Western Desert of Egypt. Quaternary Research, 1997, 48, 29-37.	1.7	142
3	Lithologic mapping in arid regions with Landsat thematic mapper data: Meatiq dome, Egypt. Bulletin of the Geological Society of America, 1987, 99, 748.	3.3	140
4	Extension of the Najd Shear System from Saudi Arabia to the central eastern desert of Egypt based on integrated field and LANDSAT observations. Tectonics, 1988, 7, 1291-1306.	2.8	137
5	A remote sensing solution for estimating runoff and recharge in arid environments. Journal of Hydrology, 2009, 373, 1-14.	5.4	133
6	Construction of a hydrologic model for estimating Wadi runoff and groundwater recharge in the Eastern Desert, Egypt. Journal of Hydrology, 2002, 263, 36-55.	5.4	112
7	Natural discharge: A key to sustainable utilization of fossil groundwater. Journal of Hydrology, 2007, 335, 25-36.	5.4	86
8	Land subsidence in the Nile Delta: inferences from radar interferometry. Holocene, 2009, 19, 949-954.	1.7	79
9	Groundwater processes in Saharan Africa: Implications for landscape evolution in arid environments. Earth-Science Reviews, 2016, 156, 108-136.	9.1	78
10	Aquifer recharge, depletion, and connectivity: Inferences from GRACE, land surface models, and geochemical and geophysical data. Bulletin of the Geological Society of America, 2017, 129, 534-546.	3.3	77
11	Statistical Applications to Downscale GRACE-Derived Terrestrial Water Storage Data and to Fill Temporal Gaps. Remote Sensing, 2020, 12, 533.	4.0	72
12	Modern recharge to fossil aquifers: Geochemical, geophysical, and modeling constraints. Journal of Hydrology, 2011, 403, 14-24.	5.4	66
13	Integration of GRACE (Gravity Recovery and Climate Experiment) data with traditional data sets for a better understanding of the time-dependent water partitioning in African watersheds. Geology, 2011, 39, 479-482.	4.4	63
14	Cosmogenic, radiogenic, and stable isotopic constraints on groundwater residence time in the Nubian Aquifer, Western Desert of Egypt. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	58
15	Hydrologic impacts of engineering projects on the Tigrisâ€“Euphrates system and its marshlands. Journal of Hydrology, 2008, 353, 59-75.	5.4	58
16	Assessing Land Deformation and Sea Encroachment in the Nile Delta: A Radar Interferometric and Inundation Modeling Approach. Journal of Geophysical Research: Solid Earth, 2018, 123, 3208-3224.	3.4	58
17	Geochemical, isotopic, and remote sensing constraints on the origin and evolution of the Rub Al Khali aquifer system, Arabian Peninsula. Journal of Hydrology, 2008, 356, 70-83.	5.4	54
18	Forecasting GRACE Data over the African Watersheds Using Artificial Neural Networks. Remote Sensing, 2019, 11, 1769.	4.0	52

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19	Assessment of age, origin, and sustainability of fossil aquifers: A geochemical and remote sensing-based approach. Journal of Hydrology, 2019, 576, 325-341.	5.4	52
20	Assessing and Improving Land Surface Model Outputs Over Africa Using GRACE, Field, and Remote Sensing Data. Surveys in Geophysics, 2016, 37, 529-556.	4.6	49
21	Paleoclimate record in the Nubian Sandstone Aquifer, Sinai Peninsula, Egypt. Quaternary Research, 2014, 81, 158-167.	1.7	48
22	Use of Geophysical and Remote Sensing Data for Assessment of Aquifer Depletion and Related Land Deformation. Surveys in Geophysics, 2018, 39, 543-566.	4.6	47
23	Response of deep aquifers to climate variability. Science of the Total Environment, 2019, 677, 530-544.	8.0	47
24	Toward a better understanding of palaeoclimatic regimes that recharged the fossil aquifers in North Africa: Inferences from stable isotope and remote sensing data. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 329-330, 137-149.	2.3	46
25	Ground-water sapping processes, Western Desert, Egypt. Bulletin of the Geological Society of America, 1997, 109, 43-62.	3.3	43
26	Structural Controls on Groundwater Flow in Basement Terrains: Geophysical, Remote Sensing, and Field Investigations in Sinai. Surveys in Geophysics, 2015, 36, 717-742.	4.6	37
27	Mapping the Distribution of Shallow Groundwater Occurrences Using Remote Sensing-Based Statistical Modeling over Southwest Saudi Arabia. Remote Sensing, 2020, 12, 1361.	4.0	36
28	Complexity of Saharan paleoclimate reconstruction and implications for modern human migration. Earth and Planetary Science Letters, 2019, 508, 74-84.	4.4	31
29	Chlorine isotopes as tracers of solute origin and age of groundwaters from the Eastern Desert of Egypt. Earth and Planetary Science Letters, 2019, 510, 37-44.	4.4	30
30	Geophysical Constraints on the Hydrogeologic and Structural Settings of the Gulf of Suez Rift-Related Basins: Case Study from the El Qaa Plain, Sinai, Egypt. Surveys in Geophysics, 2014, 35, 415-430.	4.6	28
31	What can the GRACE seasonal cycle tell us about lake-aquifer interactions?. Earth-Science Reviews, 2020, 211, 103392.	9.1	28
32	Land Subsidence Induced by Rapid Urbanization in Arid Environments: A Remote Sensing-Based Investigation. Remote Sensing, 2021, 13, 1109.	4.0	23
33	A remote sensing contribution to hydrologic modelling in arid and inaccessible watersheds, Pishin Lora basin, Pakistan. Hydrological Processes, 2012, 26, 85-99.	2.6	21
34	RESDEM, a tool for integrating temporal remote sensing data for use in hydrogeologic investigations. Computers and Geosciences, 2009, 35, 2001-2010.	4.2	20
35	An integrated approach for groundwater potential zoning in shallow fracture zone aquifers. International Journal of Remote Sensing, 2013, 34, 6539-6561.	2.9	20
36	Structural interpretation and tectonic evolution of a part of the Najd Shear Zone (Saudi Arabia) using Landsat thematic-mapper data. Tectonophysics, 1990, 178, 309-335.	2.2	17

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37	Countrywide Monitoring of Ground Deformation Using InSAR Time Series: A Case Study from Qatar. Remote Sensing, 2021, 13, 702.	4.0	14
38	Geologic and hydrologic settings for development of freshwater lenses in arid lands. Hydrological Processes, 2014, 28, 3185-3194.	2.6	13
39	Tracing Holocene channels and landforms of the Nile Delta through integration of early elevation, geophysical, and sediment core data. Holocene, 2020, 30, 1129-1141.	1.7	13
40	Buffering the impacts of extreme climate variability in the highly engineered Tigris Euphrates river system. Scientific Reports, 2022, 12, 4178.	3.3	13
41	Paleozoic glaciation in NE Africa: field and remote sensing-based evidence from the South Eastern Desert of Egypt. International Geology Review, 2020, 62, 1187-1204.	2.1	11
42	Integrated studies to identify site-specific parameters for environmentally benign mining operations: A case study from the Sukari Gold Mine, Egypt. Science of the Total Environment, 2021, 750, 141654.	8.0	10
43	Use of Geophysical and Radar Interferometric Techniques to Monitor Land Deformation Associated with the Jazan Salt Diapir, Jazan city, Saudi Arabia. Surveys in Geophysics, 2021, 42, 177-200.	4.6	8
44	Integrated solutions for hydrologic investigations in arid lands. , 2012, 8, 1588-1605.		5
45	Red Sea tectonics unveil one of the largest terrestrial ice streams: New constraints on Late Ordovician ice sheet dynamics. Earth and Planetary Science Letters, 2022, 587, 117531.	4.4	4
46	Logistic Regression-based Geomorphological Mapping in the Arabian Platform: Implications for the Paleohydrology and the Paleoclimate of the Arabian Desert. Advances in Science, Technology and Innovation, 2019, , 77-79.	0.4	1
47	A GEOCHEMICAL, GEOPHYSICAL, AND REMOTE SENSING-BASED APPROACH FOR THE ASSESSMENT OF THE AGE, ORIGIN, AND SUSTAINABLE UTILIZATION OF FOSSIL AQUIFERS IN SAHARAN AFRICA AND ARABIA. , 2016, , .		1
48	Impacts of Climate Change on the Red Sea Region and its Watersheds, Saudi Arabia. Springer Earth System Sciences, 2015, , 363-377.	0.2	1