Alaa Ahmed Masoud

List of Publications by Year
in descending order

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45 papers	1,017 citations	471509 17 h-index	434195 31 g-index
45 all docs	45 docs citations	45 times ranked	1141 citing authors

#	Article	IF	Citations
1	Tectonic architecture through Landsat-7 ETM+/SRTM DEM-derived lineaments and relationship to the hydrogeologic setting in Siwa region, NW Egypt. Journal of African Earth Sciences, 2006, 45, 467-477.	2.0	114
2	Adsorption of phosphate ions from aqueous solution by modified bentonite with magnesium hydroxide Mg(OH)2. Applied Clay Science, 2017, 140, 157-164.	5.2	107
3	Arid land salinization detected by remotely-sensed landcover changes: A case study in the Siwa region, NW Egypt. Journal of Arid Environments, 2006, 66, 151-167.	2.4	106
4	Auto-detection and integration of tectonically significant lineaments from SRTM DEM and remotely-sensed geophysical data. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 818-832.	11.1	99
5	Groundwater quality assessment of the shallow aquifers west of the Nile Delta (Egypt) using multivariate statistical and geostatistical techniques. Journal of African Earth Sciences, 2014, 95, 123-137.	2.0	95
6	Morphotectonics inferred from the analysis of topographic lineaments auto-detected from DEMs: Application and validation for the Sinai Peninsula, Egypt. Tectonophysics, 2011, 510, 291-308.	2.2	49
7	Applicability of computer-aided comprehensive tool (LINDA: LINeament Detection and Analysis) and shaded digital elevation model for characterizing and interpreting morphotectonic features from lineaments. Computers and Geosciences, 2017, 106, 89-100.	4.2	45
8	Assessment of groundwater and soil quality degradation using multivariate and geostatistical analyses, Dakhla Oasis, Egypt. Journal of African Earth Sciences, 2018, 142, 64-81.	2.0	35
9	3D geostatistical modeling of fracture system in a granitic massif to characterize hydraulic properties and fracture distribution. Tectonophysics, 2015, 660, 1-16.	2.2	30
10	Mapping soil salinity using spectral mixture analysis of landsat 8 OLI images to identify factors influencing salinization in an arid region. International Journal of Applied Earth Observation and Geoinformation, 2019, 83, 101944.	2.8	28
11	Runoff modeling of the wadi systems for estimating flash flood and groundwater recharge potential in Southern Sinai, Egypt. Arabian Journal of Geosciences, 2011, 4, 785-801.	1.3	27
12	Spatio-temporal trends and change factors of groundwater quality inÂan arid area with peat rich aquifers: Emergence of water environmental problems in Tanta District, Egypt. Journal of Arid Environments, 2016, 124, 360-376.	2.4	27
13	Predicting salt abundance in slightly saline soils from Landsat ETM+ imagery using Spectral Mixture Analysis and soil spectrometry. Geoderma, 2014, 217-218, 45-56.	5.1	26
14	Three-dimensional geotechnical modeling of the soils in Riyadh city, KSA. Bulletin of Engineering Geology and the Environment, 2019, 78, 1-17.	3.5	24
15	Spatio-temporal characterization of the Pliocene aquifer conditions in Wadi El-Natrun area, Egypt. Environmental Earth Sciences, 2011, 62, 1361-1374.	2.7	21
16	Identifying Groundwater Potential in Crystalline Basement Rocks Using Remote Sensing and Electromagnetic Sounding Techniques in Central Western Mozambique. Natural Resources Research, 2018, 27, 275-298.	4.7	21
17	Geotechnical evaluation of the alluvial soils for urban land management zonation in Gharbiya governorate, Egypt. Journal of African Earth Sciences, 2015, 101, 360-374.	2.0	18
18	Relationship between remotely sensed vegetation change and fracture zones induced by the 2008 Wenchuan earthquake, China. Journal of Earth Science (Wuhan, China), 2013, 24, 282-296.	3.2	13

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19	On the Retrieval of the Water Quality Parameters from Sentinel-3/2 and Landsat-8 OLI in the Nile Deltaâ€™s Coastal and Inland Waters. Water (Switzerland), 2022, 14, 593.	2.7	13
20	Impacts of karst phenomena on engineering properties of limestone foundation bed, Ar Riyadh, Saudi Arabia. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	11
21	Hydrochemical and geoelectrical investigation of the coastal shallow aquifers in El-Omayed area, Egypt. Environmental Monitoring and Assessment, 2013, 185, 7065-7080.	2.7	10
22	Patterns and Trends of the Pesticide Pollution of the Shallow Nile Delta Aquifer (Egypt). Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	10
23	Groundwater Quality Assessment of a Multi-Layered Aquifer in a Desert Environment: A Case Study in Wadi ad-Dawasir, Saudi Arabia. Water (Switzerland), 2020, 12, 3020.	2.7	9
24	Renewable energy and water sustainability: lessons learnt from TUISR19. Environmental Science and Pollution Research, 2020, 27, 32153-32156.	5.3	9
25	Spatiotemporal evaluation of the groundwater quality in Gharbiya Governorate, Egypt. Environmental Science and Pollution Research, 2017, 24, 8256-8278.	5.3	8
26	Uranium migration and favourable sites of potential radioelement concentrations in Gabal Umm Hammad area, Central Eastern Desert, Egypt. NRIAG Journal of Astronomy and Geophysics, 2017, 6, 368-378.	0.9	8
27	Spatioâ€temporal evaluation of the groundwater quality in Kafr Alâ€Zayat District, Egypt. Hydrological Processes, 2013, 27, 2987-3002.	2.6	7
28	Integration of Well Logging and Remote Sensing Data for Detecting Potential Geothermal Sites along the Gulf of Suez, Egypt. Resources, 2020, 9, 109.	3.5	7
29	Geotechnical Mapping of Najran Soils for Safe Urban Expansion, Najran Region, Saudi Arabia. Geotechnical and Geological Engineering, 2018, 36, 2003-2020.	1.7	5
30	Geotechnical site suitability mapping for urban land management in Tanta District, Egypt. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	4
31	Numerical and experimental analyses of the use of double vertical barrier walls for groundwater protection. Water Environment Research, 2020, 92, 2168-2177.	2.7	4
32	TUEF2016-environmental pollution: problem and solution. Environmental Science and Pollution Research, 2018, 25, 30745-30746.	5.3	3
33	Determination of the radiation dose rate and radiogenic heat production of North Gabal Abu Hibban area, central Eastern Desert, Egypt. NRIAG Journal of Astronomy and Geophysics, 2019, 8, 103-111.	0.9	3
34	Geometry and field relations disclose the emplacement dynamics of the SW Sinai Dyke Swarms (Egypt). Journal of Volcanology and Geothermal Research, 2020, 395, 106831.	2.1	3
35	Phytoplankton dynamics and renewable energy potential induced by the environmental conditions of Lake Burullus, Egypt. Environmental Science and Pollution Research, 2021, 28, 66043-66071.	5.3	3
36	Trends and Causes of Deterioration in the Shallow Groundwater Conditions in an Arid Agriculture Area through GIS-based Spatial Hydrochemical and Hydrodynamics Modeling. Geoinformatics, 2012, 24, 3-13.	0.1	3

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37	Assessment of aquifer vulnerability for pollution for middle delta in Egypt using Geographic Information System and DRASTIC technique. Journal of Engineering Research, 2019, 3, 132-139.	0.1	3
38	Performance analysis of direct solar dryer driven by photovoltaic thermal energy recovery and solar air collector for drying materials and electricity generation. Heat Transfer, 0, , .	3.0	3
39	Characterization of El-Tih kaolin quality using mineralogical, geochemical and geostatistical analyses. Clay Minerals, 2013, 48, 1-20.	0.6	2
40	Monitoring and assessment of the groundwater quality in wadi Al-Arish downstream area, North Sinai (Egypt). Journal of African Earth Sciences, 2018, 140, 225-240.	2.0	2
41	Discriminating Weathering Degree by Integrating Optical Sensor and SAR Satellite Images for Potential Mapping of Groundwater Resources in Basement Aquifers of Semiarid Regions. Natural Resources Research, 2019, 28, 1197-1215.	4.7	1
42	Hydrogeophysical Investigations Using DC Resistivity Survey to Assess the Water Potentialities of the Shallow Aquifer Zone in East of Dakhla Oasis, Egypt. Earth and Environmental Sciences Library, 2021, , 261-283.	0.4	1
43	On the Nile Fan's Wave Power Potential and Controlling Factors Integrating Spectral and Geostatistical Techniques. SSRN Electronic Journal, 0, , .	0.4	0
44	Geotechnical database building and 3D modeling of the soil in Medina, Saudi Arabia. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	0
45	On the Nile Fan's wave power potential and controlling factors integrating spectral and geostatistical techniques. Renewable Energy, 2022, , .	8.9	0