

Osman Abdalla

List of Publications by Year in descending order

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51
papers

738
citations

471061

17
h-index

580395

25
g-index

52
all docs

52
docs citations

52
times ranked

766
citing authors

#	ARTICLE	IF	CITATIONS
1	Groundwater recharge dams in arid areas as tools for aquifer replenishment and mitigating seawater intrusion: example of AlKhod, Oman. <i>Environmental Earth Sciences</i> , 2013, 69, 1951-1962.	1.3	48
2	An efficient optimization of well placement and control for a geothermal prospect under geological uncertainty. <i>Applied Energy</i> , 2015, 137, 352-363.	5.1	48
3	Rate of seawater intrusion estimated by geophysical methods in an arid area: Al Khabourah, Oman. <i>Hydrogeology Journal</i> , 2010, 18, 1437-1445.	0.9	37
4	Groundwater recharge/discharge in semi-arid regions interpreted from isotope and chloride concentrations in north White Nile Rift, Sudan. <i>Hydrogeology Journal</i> , 2009, 17, 679-692.	0.9	34
5	An efficient surrogate-based simulation-optimization method for calibrating a regional MODFLOW model. <i>Journal of Hydrology</i> , 2017, 544, 591-603.	2.3	33
6	Groundwater recharge in arid areas induced by tropical cyclones: lessons learned from Gonu 2007 in Sultanate of Oman. <i>Environmental Earth Sciences</i> , 2011, 63, 229-239.	1.3	31
7	A surrogate-based sensitivity quantification and Bayesian inversion of a regional groundwater flow model. <i>Journal of Hydrology</i> , 2018, 557, 826-837.	2.3	29
8	Application of time-domain electromagnetic method in mapping saltwater intrusion of a coastal alluvial aquifer, North Oman. <i>Journal of Applied Geophysics</i> , 2015, 115, 59-64.	0.9	28
9	Hydrological and economic feasibility of mitigating a stressed coastal aquifer using managed aquifer recharge: a case study of Jamma aquifer, Oman. <i>Journal of Arid Land</i> , 2019, 11, 148-159.	0.9	26
10	Cyanide from gold mining and its effect on groundwater in arid areas, Yanqul mine of Oman. <i>Environmental Earth Sciences</i> , 2010, 60, 885-892.	1.3	23
11	Water table response to a tidal agitation in a coastal aquifer: The Meyerâ€™Polubarinova-Kochina theory revisited. <i>Journal of Hydrology</i> , 2010, 392, 96-104.	2.3	23
12	Groundwater discharge mechanism in semiâ€™arid regions and the role of evapotranspiration. <i>Hydrological Processes</i> , 2008, 22, 2993-3009.	1.1	22
13	Dry Atmospheric Contribution to the Plantâ€™Soil System Around a Cement Factory: Spatial Variations and Sourcesâ€™a Case Study from Oman. <i>Water, Air, and Soil Pollution</i> , 2010, 205, 343-357.	1.1	22
14	Conjunctive use of groundwater and surface water resources with aquifer recharge by treated wastewater: evaluation of management scenarios in the Zarqa River Basin, Jordan. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	22
15	â€™1/4ç1/2—æ²³æµàÿÿâœ°èj“æ°â’CEâœ°ä,æ°°ç,â°â’1/2œç””:âCEâ1/2ç’â’CEâŽ’âŠ’æ°éçèæ®. <i>Hydrogeology Journal</i> , 2017, 25, 707-726.		
16	Assessment of the impact of climate change on coastal aquifers in Oman. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	20
17	Mobility of rare earth elements in the system soilsâ€™plantsâ€™groundwaters: a case study of an arid area (Oman). <i>Arabian Journal of Geosciences</i> , 2009, 2, 143-150.	0.6	18
18	Groundwater recharge estimation in arid hardrockâ€™alluvium aquifers using combined waterâ€™table fluctuation and groundwater balance approaches. <i>Hydrological Processes</i> , 2017, 31, 3437-3451.	1.1	18

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19	Factors affecting groundwater chemistry in regional arid basins of variable lithology: example of Wadi Umairy, Oman. <i>Arabian Journal of Geosciences</i> , 2014, 7, 2861-2870.	0.6	17
20	An integrated approach for assessing surface water quality: Case of Beni Haroun dam (Northeast) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	16
21	A Surrogate Water Quality Index to assess groundwater using a unified DEA-OWA framework. <i>Environmental Science and Pollution Research</i> , 2021, 28, 56658-56685.	2.7	16
22	Hydrochemical characterization of the main aquifers in Khartoum, the capital city of Sudan. <i>Environmental Earth Sciences</i> , 2015, 74, 4771-4786.	1.3	14
23	Groundwater Modeling and Sustainability of a Transboundary Hardrockâ€™ Alluvium Aquifer in North Oman Mountains. <i>Water (Switzerland)</i> , 2017, 9, 161.	1.2	14
24	The Application of Air-sparging, Soil Vapor Extraction and Pump and Treat for Remediation of a Diesel-contaminated Fractured Formation. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2009, 31, 911-922.	1.2	13
25	Strontium isotopes as a tool for estimation of groundwater recharge and aquifer connectivity. <i>Groundwater for Sustainable Development</i> , 2017, 4, 1-11.	2.3	13
26	Fluidsâ€™ dynamics in transient air sparging of a heterogeneous unconfined aquifer. <i>Environmental Earth Sciences</i> , 2011, 63, 1189-1198.	1.3	11
27	Hydrogeological and economical simulations: emergency water supply for Muscat. <i>Water Policy</i> , 2014, 16, 340-357.	0.7	11
28	A DEA cross-efficiency inclusive methodology for assessing water quality: A Composite Water Quality Index. <i>Journal of Hydrology</i> , 2022, 612, 128123.	2.3	11
29	Groundwater modeling in semiarid Central Sudan: adequacy and long-term abstraction. <i>Arabian Journal of Geosciences</i> , 2009, 2, 321-335.	0.6	9
30	A Novel Approach to Modeling Wastewater Evaporation Based on Dimensional Analysis. <i>Water Resources Management</i> , 2016, 30, 2801-2814.	1.9	9
31	An efficient methodology to design optimal groundwater level monitoring network in Al-Buraimi region, Oman. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	9
32	Aquifer systems in Kordofan, Sudan: Subsurface lithological model. <i>South African Journal of Geology</i> , 2006, 109, 585-598.	0.6	8
33	Groundwater recharge to ophiolite aquifer in North Oman: constrained by stable isotopes and geochemistry. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	8
34	Impurity effect on clear water evaporation: toward modelling wastewater evaporation using ANN, ANFIS-SC and GEP techniques. <i>Hydrological Sciences Journal</i> , 2017, 62, 1856-1866.	1.2	7
35	Oblique Porous Composite as Evaporating â€™Capâ€™ Do Desert Dunes Preserve Moisture by Capillary Barriers and Tilt of Their Slopes?. <i>Water Resources Research</i> , 2019, 55, 2504-2520.	1.7	7
36	Groundwater flow in hillslopes: Analytical solutions by the theory of holomorphic functions and hydraulic theory. <i>Applied Mathematical Modelling</i> , 2015, 39, 3380-3397.	2.2	6

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37	Coupling isotopic and piezometric data to infer groundwater recharge mechanisms in arid areas: example of Samail Catchment, Oman. <i>Hydrogeology Journal</i> , 2018, 26, 2561-2573.	0.9	5
38	A scenario-based coupled SWAT-MODFLOW decision support system for advanced water resource management. <i>Journal of Hydroinformatics</i> , 2022, 24, 56-77.	1.1	5
39	Water table rise in arid urban area soils due to evaporation impedence and its mitigation by intelligently designed capillary chimney siphons. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	4
40	Dynamic panel-data-based groundwater level prediction and decomposition in an arid hardrockâ€“alluvium aquifer. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	3
41	Hydro-chemical evolution of groundwater in a sequence of Tertiary Formations in Northwest Oman. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	3
42	Modern Recharge in a Transboundary Groundwater Basin Deduced from Hydrochemical and Isotopic Investigations: Al Buraimi, Oman. <i>Geofluids</i> , 2018, 2018, 1-14.	0.3	3
43	Fresh-saline water dynamics in coastal aquifers: Sand tank experiments with MAR-wells injecting at intermittent regimes. <i>Journal of Hydrology</i> , 2021, 601, 126826.	2.3	3
44	Modelling an aquiferâ€™s response to a remedial action in Wadi Suq, Oman. <i>WIT Transactions on Ecology and the Environment</i> , 2007, , .	0.0	3
45	Integration of Geophysical Methods for Doline Hazard Assessment: A Case Study from Northern Oman. <i>Geosciences (Switzerland)</i> , 2022, 12, 243.	1.0	3
46	Reply on the comment â€œReview of Groundwater modeling in semiarid Central Sudan: adequacy and long term abstraction (Abdalla 2009)â€•By R. Salama & A. Elamin (2009). <i>Arabian Journal of Geosciences</i> , 2011, 4, 681-686.	0.6	1
47	Special issue on water resources in arid areas. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	1
48	Groundwater in North and Central Sudan. <i>Hydrogeology</i> , 2008, , .	0.1	1
49	Rare earth and trace elements in soil-plant system irrigated with treated wastewater in an arid environment. <i>International Journal of Environmental Technology and Management</i> , 2015, 18, 231.	0.1	0
50	Recharge Estimation of Hardrock-Alluvium Al-Fara Aquifer, Oman Using Multiple Methods. <i>Advances in Science, Technology and Innovation</i> , 2019, , 313-315.	0.2	0
51	An Overview of Stable Isotopes in Northern Omanâ€™s Main Aquifers as an Insight into Recharge Process. <i>Springer Water</i> , 2017, , 141-153.	0.2	0