Ahmed Sefelnasr

List of Publications by Year
in descending order

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44 papers	1,137 citations	361045 20 h-index	433756 31 g-index
44 all docs	44 docs citations	44 times ranked	922 citing authors

#	Article	IF	Citations
1	Impacts of Seawater Rise on Seawater Intrusion in the Nile Delta Aquifer, Egypt. Ground Water, 2014, 52, 264-276.	0.7	98
2	Incorporating the concept of equivalent freshwater head in successive horizontal simulations of seawater intrusion in the Nile Delta aquifer, Egypt. Journal of Hydrology, 2012, 464-465, 186-198.	2.3	74
3	A Hydrological and Geomorphometric Approach to Understanding the Generation of Wadi Flash Floods. Water (Switzerland), 2017, 9, 553.	1.2	59
4	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. Scientific Reports, 2020, 10, 4684.	1.6	55
5	Developing machine learning algorithms for meteorological temperature and humidity forecasting at Terengganu state in Malaysia. Scientific Reports, 2021, 11, 18935.	1.6	52
6	Modeling the fluctuations of groundwater level by employing ensemble deep learning techniques. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1420-1439.	1.5	46
7	Suspended sediment load prediction using long short-term memory neural network. Scientific Reports, 2021, 11, 7826.	1.6	43
8	Efficient river water quality index prediction considering minimal number of inputs variables. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 751-763.	1.5	42
9	Machine learning versus linear regression modelling approach for accurate ozone concentrations prediction. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 713-725.	1.5	39
10	Past, Present and Perspective Methodology for Groundwater Modeling-Based Machine Learning Approaches. Archives of Computational Methods in Engineering, 2022, 29, 3843-3859.	6.0	32
11	Characterisation of the impact of dissolved organic matter on iron, manganese, and arsenic mobilisation during bank filtration. Journal of Environmental Management, 2020, 258, 110003.	3.8	31
12	Modelling of paleo-saltwater intrusion in the northern part of the Nubian Aquifer System, Northeast Africa. Hydrogeology Journal, 2010, 18, 1447-1463.	0.9	30
13	Quantitative and Qualitative Assessment of Seawater Intrusion in Wadi Ham under Different Pumping Scenarios. Journal of Hydrologic Engineering - ASCE, 2014, 19, 855-866.	0.8	30
14	Precipitation Forecasting Using Multilayer Neural Network and Support Vector Machine Optimization Based on Flow Regime Algorithm Taking into Account Uncertainties of Soft Computing Models. Sustainability, 2019, 11, 6681.	1.6	30
15	Application of Artificial Intelligence Models for modeling Water Quality in Groundwater: Comprehensive Review, Evaluation and Future Trends. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	26
16	Groundwater management options in an arid environment: The Nubian Sandstone Aquifer System, Eastern Sahara. Journal of Arid Environments, 2015, 122, 46-58.	1.2	25
17	Reservoir water balance simulation model utilizing machine learning algorithm. AEJ - Alexandria Engineering Journal, 2021, 60, 1365-1378.	3.4	25
18	Hybrid deep learning model for ozone concentration prediction: comprehensive evaluation and comparison with various machine and deep learning algorithms. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 902-933.	1.5	24

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19	Determination of Natural Radionuclides for Water Resources on the West Bank of the Nile River, Assiut Governorate, Egypt. Water (Switzerland), 2019, 11, 311.	1.2	23
20	Review of Nitrogen Compounds Prediction in Water Bodies Using Artificial Neural Networks and Other Models. Sustainability, 2020, 12, 4359.	1.6	23
21	å°¼ç½—æ²³æµåŸŸåœ°è¡¨æ°´å’Œåœ°ä¸‹æ°´ç›¸äº’ä½œç”¨:åŒä½ç´ å’ŒåŽ‹åŠ›æ°´é¢è¯æ®. Hydrogeology Journal, 2017, 25, 707-726.	1.9	22
22	Response of the interaction between surface water and groundwater to climate change and proposed megastructure. Journal of African Earth Sciences, 2020, 162, 103723.	0.9	22
23	Investigating the impact of temperature and organic matter on the removal of selected organic micropollutants during bank filtration: A batch study. Journal of Environmental Chemical Engineering, 2019, 7, 102904.	3.3	21
24	Review on Dam and Reservoir Optimal Operation for Irrigation and Hydropower Energy Generation Utilizing Meta-Heuristic Algorithms. IEEE Access, 2021, 9, 19488-19505.	2.6	21
25	Optimised neural network model for river-nitrogen prediction utilizing a new training approach. PLoS ONE, 2020, 15, e0239509.	1.1	20
26	Investigating the Influence of Meteorological Parameters on the Accuracy of Sea-Level Prediction Models in Sabah, Malaysia. Sustainability, 2020, 12, 1193.	1.6	18
27	Three-dimensional groundwater flow modeling approach for the groundwater management options for the Dakhla oasis, Western Desert, Egypt. Environmental Earth Sciences, 2014, 72, 1227-1241.	1.3	17
28	Numerical modeling technique for groundwater management in Samalut city, Minia Governorate, Egypt. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	17
29	Application of non-parametric approaches to identify trend in streamflow during 1976â€“2007 (Naula) Tj ETQq1 1 0.784314 rgBT /Ov	3.4	17
30	The fate of heavy metals during bank filtration: Effect of dissolved organic matter. Journal of Water Process Engineering, 2020, 38, 101563.	2.6	16
31	Analysis of the Performance of Bank Filtration for Water Supply in Arid Climates: Case Study in Egypt. Water (Switzerland), 2020, 12, 1816.	1.2	16
32	Spatial and Temporal Changes of Groundwater Storage in the Quaternary Aquifer, UAE. Water (Switzerland), 2021, 13, 864.	1.2	16
33	Water level prediction using various machine learning algorithms: a case study of Durian Tunggal river, Malaysia. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 422-440.	1.5	16
34	Second law of thermodynamic analysis of 40:60% propylene glycol and water mixture based nanodiamond nanofluid under transition flow. Diamond and Related Materials, 2021, 117, 108480.	1.8	12
35	The Fate of Dissolved Organic Matter (DOM) During Bank Filtration under Different Environmental Conditions: Batch and Column Studies. Water (Switzerland), 2018, 10, 1730.	1.2	11
36	Comprehensive comparison of various machine learning algorithms for short-term ozone concentration prediction. AEJ - Alexandria Engineering Journal, 2022, 61, 4607-4622.	3.4	11

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37	A comparison of machine learning models for suspended sediment load classification. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 1211-1232.	1.5	10
38	Complex Extreme Sea Levels Prediction Analysis: Karachi Coast Case Study. Entropy, 2020, 22, 549.	1.1	9
39	Review on wastewater treatment ponds clogging under artificial recharge: Impacting factors and future modelling. Journal of Water Process Engineering, 2021, 40, 101848.	2.6	9
40	Optimizing the Operation Release Policy Using Charged System Search Algorithm: A Case Study of Klang Gates Dam, Malaysia. Sustainability, 2021, 13, 5900.	1.6	9
41	Modeling the infiltration rate of wastewater infiltration basins considering water quality parameters using different artificial neural network techniques. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 397-421.	1.5	8
42	Enhancement of nitrogen prediction accuracy through a new hybrid model using ant colony optimization and an Elman neural network. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1843-1867.	1.5	7
43	An integrated assessment approach for fossil groundwater quality and crop water requirements in the El-Kharga Oasis, Western Desert, Egypt. Journal of Hydrology: Regional Studies, 2022, 40, 101016.	1.0	5
44	Rain Transmission Losses Assessment in Arid Environment, Egypt: Numerical and Experimental Study. IOP Conference Series: Materials Science and Engineering, 0, 975, 012011.	0.3	0