

# Ahmed Sefelnasr

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Comprehensive comparison of various machine learning algorithms for short-term ozone concentration prediction. AEJ - Alexandria Engineering Journal, 2022, 61, 4607-4622.	3.4	11
2	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
3	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
4	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
5	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
6	A comparison of machine learning models for suspended sediment load classification. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 1211-1232.	1.5	10
7	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
8	Reservoir water balance simulation model utilizing machine learning algorithm. AEJ - Alexandria Engineering Journal, 2021, 60, 1365-1378.	3.4	25
9	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
10	Spatial and Temporal Changes of Groundwater Storage in the Quaternary Aquifer, UAE. Water (Switzerland), 2021, 13, 864.	1.2	16
11	Suspended sediment load prediction using long short-term memory neural network. Scientific Reports, 2021, 11, 7826.	1.6	43
12	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
13	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
14	Developing machine learning algorithms for meteorological temperature and humidity forecasting at Terengganu state in Malaysia. Scientific Reports, 2021, 11, 18935.	1.6	52
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Characterisation of the impact of dissolved organic matter on iron, manganese, and arsenic mobilisation during bank filtration. <i>Journal of Environmental Management</i> , 2020, 258, 110003.	3.8	31
20	Response of the interaction between surface water and groundwater to climate change and proposed megastructure. <i>Journal of African Earth Sciences</i> , 2020, 162, 103723.	0.9	22
21	The fate of heavy metals during bank filtration: Effect of dissolved organic matter. <i>Journal of Water Process Engineering</i> , 2020, 38, 101563.	2.6	16
22	Analysis of the Performance of Bank Filtration for Water Supply in Arid Climates: Case Study in Egypt. <i>Water (Switzerland)</i> , 2020, 12, 1816.	1.2	16
23	Machine learning versus linear regression modelling approach for accurate ozone concentrations prediction. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 713-725.	1.5	39
24	Review of Nitrogen Compounds Prediction in Water Bodies Using Artificial Neural Networks and Other Models. <i>Sustainability</i> , 2020, 12, 4359.	1.6	23
25	Complex Extreme Sea Levels Prediction Analysis: Karachi Coast Case Study. <i>Entropy</i> , 2020, 22, 549.	1.1	9
26	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. <i>Scientific Reports</i> , 2020, 10, 4684.	1.6	55
27	Investigating the Influence of Meteorological Parameters on the Accuracy of Sea-Level Prediction Models in Sabah, Malaysia. <i>Sustainability</i> , 2020, 12, 1193.	1.6	18
28	Application of non-parametric approaches to identify trend in streamflow during 1976–2007 (Naula) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.45	17
29	Efficient river water quality index prediction considering minimal number of inputs variables. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 751-763.	1.5	42
30	Optimised neural network model for river-nitrogen prediction utilizing a new training approach. <i>PLoS ONE</i> , 2020, 15, e0239509.	1.1	20
31	Determination of Natural Radionuclides for Water Resources on the West Bank of the Nile River, Assiut Governorate, Egypt. <i>Water (Switzerland)</i> , 2019, 11, 311.	1.2	23
32	Investigating the impact of temperature and organic matter on the removal of selected organic micropollutants during bank filtration: A batch study. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102904.	3.3	21
33	Numerical modeling technique for groundwater management in Samalut city, Minia Governorate, Egypt. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	17
34	Precipitation Forecasting Using Multilayer Neural Network and Support Vector Machine Optimization Based on Flow Regime Algorithm Taking into Account Uncertainties of Soft Computing Models. <i>Sustainability</i> , 2019, 11, 6681.	1.6	30
35	The Fate of Dissolved Organic Matter (DOM) During Bank Filtration under Different Environmental Conditions: Batch and Column Studies. <i>Water (Switzerland)</i> , 2018, 10, 1730.	1.2	11
36	â¼1/2—æ²³æµâÿÿâœ°èj“æ°â’CEâœ°â,æ°ç,â°â1/2œç”“:âCEâ1/2ç’â’CEâŽ’âŠ’æ°éçèæ®. <i>Hydrogeology Journal</i> , 2017, 25, 702-726.	1.7	22

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37	A Hydrological and Geomorphometric Approach to Understanding the Generation of Wadi Flash Floods. <i>Water (Switzerland)</i> , 2017, 9, 553.	1.2	59
38	Groundwater management options in an arid environment: The Nubian Sandstone Aquifer System, Eastern Sahara. <i>Journal of Arid Environments</i> , 2015, 122, 46-58.	1.2	25
39	Quantitative and Qualitative Assessment of Seawater Intrusion in Wadi Ham under Different Pumping Scenarios. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 855-866.	0.8	30
40	Three-dimensional groundwater flow modeling approach for the groundwater management options for the Dakhla oasis, Western Desert, Egypt. <i>Environmental Earth Sciences</i> , 2014, 72, 1227-1241.	1.3	17
41	Impacts of Seawater Rise on Seawater Intrusion in the Nile Delta Aquifer, Egypt. <i>Ground Water</i> , 2014, 52, 264-276.	0.7	98
42	Incorporating the concept of equivalent freshwater head in successive horizontal simulations of seawater intrusion in the Nile Delta aquifer, Egypt. <i>Journal of Hydrology</i> , 2012, 464-465, 186-198.	2.3	74
43	Modelling of paleo-saltwater intrusion in the northern part of the Nubian Aquifer System, Northeast Africa. <i>Hydrogeology Journal</i> , 2010, 18, 1447-1463.	0.9	30
44	Rain Transmission Losses Assessment in Arid Environment, Egypt: Numerical and Experimental Study. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 975, 012011.	0.3	0