Nadhir Al-Ansari

List of Publications by Year in Descending Order

288 papers	4,050 citations	33 h-index	49 g-index
313 ext. papers	5,941 ext. citations	2.6 avg, IF	6.66 L-index

#	Paper	IF	Citations
288	Assessment of Climate Change Impact on Snowmelt Runoff in Himalayan Region. *Sustainability*, **2022**, 14, 1150	3.6	1
287	Assessment of climate change impact on probable maximum floods in a tropical catchment. *Theoretical and Applied Climatology*, **2022**, 148, 15	3	0
286	Assessing the Probability of Drought Severity in a Homogeneous Region. *Complexity*, **2022**, 2022, 1-8	1.6	2
285	An evapotranspiration deficit-based drought index to detect variability of terrestrial carbon productivity in the Middle East. *Environmental Research Letters*, **2022**, 17, 014051	6.2	3
284	Water Quality Variation Along the Tigris River. *Advances in Science, Technology and Innovation*, **2022** , 447-450	0.3	
283	Geometric Correction Analysis of Highly Distortion of Near Equatorial Satellite Images Using Remote Sensing and Digital Image Processing Techniques. *Engineering*, **2022**, 14, 1-8	0.4	2
282	Determining the Hydrological Behaviour of Catchment Based on Quantitative Morphometric Analysis in the Hard Rock Area of Nand Samand Catchment, Rajasthan, India. *Hydrology*, **2022**, 9, 31	2.8	0
281	Assessing the role of SuDS in resilience enhancement of urban drainage system: A case study of Gurugram City, India. *Urban Climate*, **2022**, 41, 101075	6.8	6
280	Automatic feature extraction and matching modelling for highly noise near-equatorial satellite images. *Innovative Infrastructure Solutions*, **2022**, 7, 1	2.3	2
279	Application ArcGIS on Modified-WQI Method to Evaluate Water Quality of the Euphrates River, Iraq, Using Physicochemical Parameters. *Lecture Notes in Networks and Systems*, **2022**, 657-675	0.5	
278	Landfill Site Selection Using GIS and Multi-criteria Decision-making AHP and SAW Methods: A Case Study in Sulaimaniyah Governorate, Iraq. *Advances in Science, Technology and Innovation*, **2022**, 289-292	0.3	1
277	Safety of Mosul and Haditha Dams, West Iraq as Affected by Karstification. *Open Journal of Geology* , **2022**, 12, 1-12	0.4	
276	Revisiting 2013 Uttarakhand flash floods through hydrological evaluation of precipitation data sources and morphometric prioritization. *Geomatics, Natural Hazards and Risk*, **2022**, 13, 646-666	3.6	1
275	Development of Novel Hybrid Models for Prediction of Drought- and Stress-Tolerance Indices in Teosinte Introgressed Maize Lines Using Artificial Intelligence Techniques. *Sustainability*, **2022**, 14, 2287	3.6	1
274	A Robust Deep-Learning Model for Landslide Susceptibility Mapping: A Case Study of Kurdistan Province, Iran.. *Sensors*, **2022**, 22,	3.8	4
273	Evaluation of the DRAINMOD Model's Performance Using Different Time Steps in Evapotranspiration Computations. *Hydrology*, **2022**, 9, 40	2.8	2
272	Minimizing the Fluoride Load in Water Using the Electrocoagulation Method: An Experimental Approach. *Environments - MDPI*, **2022**, 9, 38	3.2	0

271	Machine Learning for the Estimation of Diameter Increment in Mixed and Uneven-Aged Forests. *Sustainability*, **2022**, 14, 3386	3.6	2
270	A Proposed Comparative Algorithm for Regional Crop Yield Assessment: An Application of Characteristic Objects Method. *Mathematical Problems in Engineering*, **2022**, 2022, 1-11	1.1	
269	Hybrid Model: Teaching Learning-Based Optimization of Artificial Neural Network (TLBO-ANN) for the Prediction of Soil Permeability Coefficient. *Mathematical Problems in Engineering*, **2022**, 2022, 1-9	1.1	0
268	Perception of climate change effects on water resources: Iraqi undergraduates as a case study. *Arabian Journal of Geosciences*, **2022**, 15, 1	1.8	0
267	Geographically weighted regression model for physical, social, and economic factors affecting the COVID-19 pandemic spreading.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
266	Prediction of irrigation water quality indices based on machine learning and regression models. *Applied Water Science*, **2022**, 12, 1	5	1
265	Predicting Compressive Strength of Concrete Containing Industrial Waste Materials: Novel and Hybrid Machine Learning Model. *Advances in Civil Engineering*, **2022**, 2022, 1-19	1.3	2
264	Groundwater level prediction using machine learning models: A comprehensive review. *Neurocomputing*, **2022**, 489, 271-308	5.4	12
263	Evaluation of Shannon Entropy and Weights of Evidence Models in Landslide Susceptibility Mapping for the Pithoragarh District of Uttarakhand State, India. *Advances in Civil Engineering*, **2022**, 2022, 1-16	1.3	1
262	Investigating Relationships between Runoff Erosion Processes and Land Use and Land Cover Using Remote Sensing Multiple Gridded Datasets. *ISPRS International Journal of Geo-Information*, **2022**, 11, 272	2.9	2
261	Impact of climate change on groundwater hydrology: a comprehensive review and current status of the Indian hydrogeology. *Applied Water Science*, **2022**, 12, 1	5	4
260	Evaluation of Machine Learning versus Empirical Models for Monthly Reference Evapotranspiration Estimation in Uttar Pradesh and Uttarakhand States, India. *Sustainability*, **2022**, 14, 5771	3.6	1
259	Novel Genetic Algorithm (GA) based hybrid machine learning-pedotransfer Function (ML-PTF) for prediction of spatial pattern of saturated hydraulic conductivity. *Engineering Applications of Computational Fluid Mechanics*, **2022**, 16, 1082-1099	4.5	6
258	A new spatiotemporal two-stage standardized weighted procedure for regional drought analysis.. *PeerJ*, **2022**, 10, e13249	3.1	3
257	Data intelligence and hybrid metaheuristic algorithms-based estimation of reference evapotranspiration. *Applied Water Science*, **2022**, 12, 1	5	5
256	Optimizing hyperparameters of deep hybrid learning for rainfall prediction: a case study of a Mediterranean basin. *Arabian Journal of Geosciences*, **2022**, 15,	1.8	3
255	Future Climate Projections Using SDSM and LARS-WG Downscaling Methods for CMIP5 GCMs over the Transboundary Jhelum River Basin of the Himalayas Region. *Atmosphere*, **2022**, 13, 898	2.7	1
254	Integrating feature extraction approaches with hybrid emotional neural networks for water quality index modeling. *Applied Soft Computing Journal*, **2021**, 114, 108036	7.5	2

253	Review of Climate Change Impacts on Human Environment: Past, Present and Future Projections. *Engineering*, **2021**, 13, 605-630	0.4	1
252	A Comparative Study of Soft Computing Models for Prediction of Permeability Coefficient of Soil. *Mathematical Problems in Engineering*, **2021**, 2021, 1-11	1.1	1
251	Effect of Irrigation System, Tillage System, and Seeding Rates on Wheat (<i>Triticum aestivum</i> L.) Growth, Grain Yield and Its Water Consumption and Efficiency. *Engineering*, **2021**, 13, 574-594	0.4	
250	Irrigation Induced Salinity and Sodicity Hazards on Soil and Groundwater: An Overview of Its Causes, Impacts and Mitigation Strategies. *Agriculture (Switzerland)*, **2021**, 11, 983	3	8
249	Statistical analysis of the best GIS interpolation method for bearing capacity estimation in An-Najaf City, Iraq. *Environmental Earth Sciences*, **2021**, 80, 1	2.9	2
248	Precipitation of (Mg/Fe-CTAB) - Layered double hydroxide nanoparticles onto sewage sludge for producing novel sorbent to remove Congo red and methylene blue dyes from aqueous environment. *Chemosphere*, **2021**, 132693	8.4	1
247	Review on NSM CFRP Strengthened RC Concrete Beams in Shear. *Advances in Civil Engineering*, **2021**, 2021, 1-16	1.3	1
246	A Comparison of Gaussian Process and M5P for Prediction of Soil Permeability Coefficient. *Scientific Programming*, **2021**, 2021, 1-13	1.4	5
245	Farmers Awareness in the Context of Climate Change: An Underutilized Way for Ensuring Sustainable Farmland Adaptation and Surface Water Quality. *Sustainability*, **2021**, 13, 11802	3.6	4
244	An Enhanced Innovative Triangular Trend Analysis of Rainfall Based on a Spectral Approach. *Water (Switzerland)*, **2021**, 13, 727	3	9
243	The Anah Anticline: An Outstanding Anticline between Two Major Tectonic Zones in Iraq. *Geotectonics*, **2021**, 55, 250-260	1.1	
242	Application GIS Software to Determine the Distribution of T.D.S. Concentrations Along the Tigris River. *IOP Conference Series: Earth and Environmental Science*, **2021**, 735, 012055	0.3	
241	Using vegetation indices for monitoring the spread of Nile Rose plant in the Tigris River within Wasit province, Iraq. *Remote Sensing Applications: Society and Environment*, **2021**, 22, 100471	2.8	3
240	Hybridization of artificial intelligence models with nature inspired optimization algorithms for lake water level prediction and uncertainty analysis. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 2193-2208	6.1	21
239	Performance Evaluation of Sentinel-2 and Landsat 8 OLI Data for Land Cover/Use Classification Using a Comparison between Machine Learning Algorithms. *Remote Sensing*, **2021**, 13, 1349	5	14
238	Water Footprint of Rice in Iraq. *IOP Conference Series: Earth and Environmental Science*, **2021**, 722, 012008	0.3	3
237	Evaluation of sediment transport empirical equations: case study of the Euphrates River West Iraq. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	4
236	The Superiority of Data-Driven Techniques for Estimation of Daily Pan Evaporation. *Atmosphere*, **2021**, 12, 701	2.7	7

235	Application of bagging ensemble model for predicting compressive strength of hollow concrete masonry prism. *Ain Shams Engineering Journal*, **2021**,	4.4	7
234	Toxic Contamination, Distribution Of Trace Metals Elements In Some Crops And Land Along The ALGhatara River For Al-Shafieiah District, Al-Diwaniyah Governorate. *IOP Conference Series: Earth and Environmental Science*, **2021**, 790, 012023	0.3	
233	Groundwater Hydrochemistry Assessment of North Dhi-Qar Province, South of Iraq Using Multivariate Statistical Techniques. *IOP Conference Series: Earth and Environmental Science*, **2021**, 790, 012075	0.3	1
232	Karstification Problems in the Haditha Dam, West Iraq. *UKH Journal of Science and Engineering*, **2021**, 5, 111-118	0.2	1
231	Minimizing the Impacts of Desertification in an Arid Region: A Case Study of the West Desert of Iraq. *Advances in Civil Engineering*, **2021**, 2021, 1-12	1.3	6
230	Application of ERA-Interim, empirical models, and an artificial intelligence-based model for estimating daily solar radiation. *Ain Shams Engineering Journal*, **2021**, 13, 101498-101498	4.4	2
229	Noise Level in Textile Industries: Case Study Al-Hillah Textile Factory-Company for Textile Industries, Al-Hillah-Babylon-Iraq. *IOP Conference Series: Earth and Environmental Science*, **2021**, 790, 012048	0.3	3
228	New Composite Sorbent for Removal of Sulfate Ions from Simulated and Real Groundwater in the Batch and Continuous Tests. *Molecules*, **2021**, 26,	4.8	2
227	Classification Maps for TDS Concentrations in the GIS Along Euphrates River, Iraq. *Water, Air, and Soil Pollution*, **2021**, 232, 1	2.6	1
226	Performance improvement for infiltration rate prediction using hybridized Adaptive Neuro-Fuzzy Inferences System (ANFIS) with optimization algorithms. *Ain Shams Engineering Journal*, **2021**, 12, 1665-1676	4.4	16
225	Sanitary landfill site selection by integrating AHP and FTOPSIS with GIS: a case study of Memari Municipality, India. *Environmental Science and Pollution Research*, **2021**, 28, 7528-7550	5.1	22
224	Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model. *Energy Reports*, **2021**, 7, 136-157	4.6	24
223	Flood susceptibility mapping and assessment using a novel deep learning model combining multilayer perceptron and autoencoder neural networks. *Journal of Flood Risk Management*, **2021**, 14, e12683	3.1	21
222	Impact of COVID-19 lockdown on NO, O, PM and PM concentrations and assessing air quality changes in Baghdad, Iraq. *Science of the Total Environment*, **2021**, 754, 141978	10.2	78
221	Combining GIS Applications and Analytic Hierarchy Process Method for Landfill Siting in Sulaimaniyah, Iraq. *Environmental Science and Engineering*, **2021**, 1811-1815	0.2	
220	Source Rock Evaluation and 1-D Basin Modelling Approach for the Sargelu Formation, Atrush-2 Well, Kurdistan Region-Iraq. *Open Journal of Geology*, **2021**, 11, 49-60	0.4	1
219	Applications of soft computing models for predicting sea surface temperature: a comprehensive review and assessment. *Progress in Earth and Planetary Science*, **2021**, 8,	3.9	14
218	A comparison among fuzzy multi-criteria decision making, bivariate, multivariate and machine learning models in landslide susceptibility mapping. *Geomatics, Natural Hazards and Risk*, **2021**, 12, 1741-1777	3.6	26

217	Perceptions about water pollution among university students: A case study from Iraq. *Cogent Engineering*, **2021**, 8, 1895473	1.5	12
216	Exploring novel hybrid soft computing models for landslide susceptibility mapping in Son La hydropower reservoir basin. *Geomatics, Natural Hazards and Risk*, **2021**, 12, 1688-1714	3.6	2
215	Estimation of SPEI Meteorological Drought Using Machine Learning Algorithms. *IEEE Access*, **2021**, 9, 65503-65523	3.5	22
214	Performance evaluation of sediment ejector efficiency using hybrid neuro-fuzzy models. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 627-643	4.5	5
213	Quantitative Estimation of Municipal Solid Waste in Sulaimaniyah Governorate, Iraq. *Environmental Science and Engineering*, **2021**, 265-270	0.2	
212	Daily pan-evaporation estimation in different agro-climatic zones using novel hybrid support vector regression optimized by Salp swarm algorithm in conjunction with gamma test. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1075-1094	4.5	14
211	Deficient Developmental Planning Leading to Water Conflicts across Political Borders: The Way Forward. *Engineering*, **2021**, 13, 158-172	0.4	2
210	Seepage Velocity of Different Groundwater Aquifers in Halabja Saidsadiq Basin NE of Iraq. *Environmental Science and Engineering*, **2021**, 1683-1687	0.2	
209	Site Selection Criteria and Design for Landfills in an Arid Area with Shallow Groundwater Depth. *Environmental Science and Engineering*, **2021**, 233-238	0.2	0
208	Developing a Spatial Tool for Assessing Coastal Community and Identifying Infrastructure at Risk. *Engineering*, **2021**, 13, 45-55	0.4	
207	Estimation of Uplift Pressure Equation at Key Points under Floor of Hydraulic Structures. *Cogent Engineering*, **2021**, 8, 1917287	1.5	4
206	Seepage Velocity Mapping Using ArcMap/GIS Software. *Environmental Science and Engineering*, **2021**, 1689-1695	0.2	
205	Emerging Technologies of Deep Learning Models Development for Pavement Temperature Prediction. *IEEE Access*, **2021**, 9, 23840-23849	3.5	10
204	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. *Scientific Reports*, **2021**, 11, 3435	4.9	16
203	Assessment of DSM Based on Radiometric Transformation of UAV Data. *Sensors*, **2021**, 21,	3.8	6
202	Development of an integrated peri-urban wetland degradation assessment approach for the Chatra Wetland in eastern India. *Scientific Reports*, **2021**, 11, 4470	4.9	10
201	An Educational Web-Based Expert System for Novice Highway Technology in Flexible Pavement Maintenance. *Complexity*, **2021**, 2021, 1-17	1.6	1
200	Simulation of the ground water flow in Karbala Governorate, Iraq. *Environmental Earth Sciences*, **2021**, 80, 1	2.9	0

199	Estimation of Spatial and Seasonal Variability of Soil Erosion in a Cold Arid River Basin in Hindu Kush Mountainous Region Using Remote Sensing. *Sustainability*, **2021**, 13, 1549	3.6	2
198	Influence of Data Splitting on Performance of Machine Learning Models in Prediction of Shear Strength of Soil. *Mathematical Problems in Engineering*, **2021**, 2021, 1-15	1.1	42
197	Sediment control strategies for sustainable water intake. *Dams and Reservoirs*, **2021**, 31, 21-30	0.3	
196	Development of prediction model for phosphate in reservoir water system based machine learning algorithms. *Ain Shams Engineering Journal*, **2021**,	4.4	5
195	Landslide Susceptibility Mapping Using Single Machine Learning Models: A Case Study from Pithoragarh District, India. *Advances in Civil Engineering*, **2021**, 2021, 1-19	1.3	1
194	Water quality assessment and phosphorus effect using water quality indices: Euphrates River- Iraq as a case study. *Groundwater for Sustainable Development*, **2021**, 14, 100630	6	8
193	GIS-Based Soft Computing Models for Landslide Susceptibility Mapping: A Case Study of Pithoragarh District, Uttarakhand State, India. *Mathematical Problems in Engineering*, **2021**, 2021, 1-19	1.1	5
192	Evaluation of an urban drainage system and its resilience using remote sensing and GIS. *Remote Sensing Applications: Society and Environment*, **2021**, 23, 100601	2.8	12
191	Predicting the discharge coefficient of oblique cylindrical weir using neural network techniques. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	0
190	An Extra Tree Regression Model for Discharge Coefficient Prediction: Novel, Practical Applications in the Hydraulic Sector and Future Research Directions. *Mathematical Problems in Engineering*, **2021**, 2021, 1-19	1.1	3
189	A Comprehensive Review for Groundwater Contamination and Remediation: Occurrence, Migration and Adsorption Modelling. *Molecules*, **2021**, 26,	4.8	7
188	Investigation into the permeability and strength of pervious geopolymer concrete containing coated biomass aggregate material. *Journal of Materials Research and Technology*, **2021**, 15, 2075-2087	5.5	3
187	Identification and characterization the sources of aerosols over Jharkhand state and surrounding areas, India using AHP model. *Geomatics, Natural Hazards and Risk*, **2021**, 12, 2194-2224	3.6	2
186	Dye Test within Mosul Dam Area. *Engineering*, **2021**, 13, 267-286	0.4	
185	Optimum location for landfills landfill site selection using GIS technique: Al-Naja city as a case study. *Cogent Engineering*, **2021**, 8, 1863171	1.5	5
184	Mosul Dam Problem and Stability. *Engineering*, **2021**, 13, 105-124	0.4	1
183	Application of HEC-RAS/WMS and FHI models for extreme hydrological events under climate change in the Ifni River arid watershed from Morocco **2021**, 251-270		6
182	Understanding temporary reduction in atmospheric pollution and its impacts on coastal aquatic system during COVID-19 lockdown: a case study of South Asia. *Geomatics, Natural Hazards and Risk*, **2021**, 12, 560-580	3.6	11

181	Machine learning model development for predicting aeration efficiency through Parshall flume. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 889-901	4.5	1
180	Mosul Dam, NW Iraq: Is a Safe Dam??. *UKH Journal of Science and Engineering*, **2021**, 5, 56-61	0.2	
179	A Multi-Sensor Comparative Analysis on the Suitability of Generated DEM from Sentinel-1 SAR Interferometry Using Statistical and Hydrological Models. *Sensors*, **2020**, 20,	3.8	7
178	Analysis of Water Pollution Using Different Physicochemical Parameters: A Study of Yamuna River. *Frontiers in Environmental Science*, **2020**, 8,	4.8	21
177	Evaluation of the drainage system of Zagros Basin (Greater Zab River, northern Iraq) and insights into tectonic geomorphology. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	
176	Evaluation of Water Quality Parameters in Marshes Zone Southern of Iraq Based on Remote Sensing and GIS Techniques. *Water, Air, and Soil Pollution*, **2020**, 231, 1	2.6	8
175	Novel Ensemble Landslide Predictive Models Based on the Hyperpipes Algorithm: A Case Study in the Nam Dam Commune, Vietnam. *Applied Sciences (Switzerland)*, **2020**, 10, 3710	2.6	21
174	The Hybridization of Ensemble Empirical Mode Decomposition with Forecasting Models: Application of Short-Term Wind Speed and Power Modeling. *Energies*, **2020**, 13, 1666	3.1	14
173	A Computational Fluid Dynamics Simulation Model of Sediment Deposition in a Storage Reservoir Subject to Water Withdrawal. *Water (Switzerland)*, **2020**, 12, 959	3	4
172	Monitoring and Assessment of Water Level Fluctuations of the Lake Urmia and Its Environmental Consequences Using Multitemporal Landsat 7 ETM Images. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	17
171	Development of Advanced Computer Aid Model for Shear Strength of Concrete Slender Beam Prediction. *Applied Sciences (Switzerland)*, **2020**, 10, 3811	2.6	13
170	The Capacity of the Hybridizing Wavelet Transformation Approach With Data-Driven Models for Modeling Monthly-Scale Streamflow. *IEEE Access*, **2020**, 8, 101993-102006	3.5	12
169	Scouring Depth Assessment Downstream of Weirs Using Hybrid Intelligence Models. *Applied Sciences (Switzerland)*, **2020**, 10, 3714	2.6	9
168	Briefing: Common laboratory procedures to prepare and cure stabilised soil specimens: a short review. *Geotechnical Research*, **2020**, 7, 3-10	1.2	2
167	GIS Based Hybrid Computational Approaches for Flash Flood Susceptibility Assessment. *Water (Switzerland)*, **2020**, 12, 683	3	69
166	Prediction of Risk Delay in Construction Projects Using a Hybrid Artificial Intelligence Model. *Sustainability*, **2020**, 12, 1514	3.6	32
165	Extreme Learning Machine Based Prediction of Soil Shear Strength: A Sensitivity Analysis Using Monte Carlo Simulations and Feature Backward Elimination. *Sustainability*, **2020**, 12, 2339	3.6	33
164	Hybridized Extreme Learning Machine Model with Salp Swarm Algorithm: A Novel Predictive Model for Hydrological Application. *Complexity*, **2020**, 2020, 1-14	1.6	30

163	Estimation of Greenhouse Gases Emitted from Energy Industry (Oil Refining and Electricity Generation) in Iraq Using IPCC Methodology. *Atmosphere*, **2020**, 11, 662	2.7	6
162	Monitoring and Assessment of Salinity and Chemicals in Agricultural Lands by a Remote Sensing Technique and Soil Moisture with Chemical Index Models. *Geosciences (Switzerland)*, **2020**, 10, 207	2.7	8
161	Optimizing Height and Spacing of Check Dam Systems for Better Grassed Channel Infiltration Capacity. *Applied Sciences (Switzerland)*, **2020**, 10, 3725	2.6	3
160	Pan Evaporation Estimation in Uttarakhand and Uttar Pradesh States, India: Validity of an Integrative Data Intelligence Model. *Atmosphere*, **2020**, 11, 553	2.7	17
159	Performance Evaluation of Machine Learning Methods for Forest Fire Modeling and Prediction. *Symmetry*, **2020**, 12, 1022	2.7	45
158	Estimation of main aquifer parameters using geoelectric measurements to select the suitable wells locations in Bahr Al-Najaf depression, Iraq. *Groundwater for Sustainable Development*, **2020**, 11, 100437	6	1
157	Neotectonic Activity Using Geomorphological Features in the Iraqi Kurdistan Region. *Geotechnical and Geological Engineering*, **2020**, 38, 4889-4904	1.5	5
156	Mosul Dam: Is it the Most Dangerous Dam in the World?. *Geotechnical and Geological Engineering*, **2020**, 38, 5179-5199	1.5	4
155	Assessment of the groundwater suitability for irrigation near Al Kufa City and preparing the final water quality maps using spatial distribution tools. *Environmental Earth Sciences*, **2020**, 79, 1	2.9	7
154	State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations. *Sustainability*, **2020**, 12, 1676	3.6	8
153	Waste foundry sand/MgFe-layered double hydroxides composite material for efficient removal of Congo red dye from aqueous solution. *Scientific Reports*, **2020**, 10, 2042	4.9	73
152	A Hybrid Intelligence Approach to Enhance the Prediction Accuracy of Local Scour Depth at Complex Bridge Piers. *Sustainability*, **2020**, 12, 1063	3.6	13
151	. *IEEE Access*, **2020**, 8, 32632-32651	3.5	55
150	A numerical study of pumping effects on flow velocity distributions in Mosul Dam reservoir using the HEC-RAS model. *Lakes and Reservoirs: Research and Management*, **2020**, 25, 72-83	1.2	0
149	Shallow Foundation Settlement Quantification: Application of Hybridized Adaptive Neuro-Fuzzy Inference System Model. *Advances in Civil Engineering*, **2020**, 2020, 1-14	1.3	20
148	A Comparative Study of Kernel Logistic Regression, Radial Basis Function Classifier, Multinomial Naïve Bayes, and Logistic Model Tree for Flash Flood Susceptibility Mapping. *Water (Switzerland)*, **2020**, 12, 239	3	36
147	Sediment flux from Lesser Zab River in Dokan Reservoir: Implications for the sustainability of long-term water resources in Iraq. *River Research and Applications*, **2020**, 36, 351-361	2.3	1
146	Flood Detection and Susceptibility Mapping Using Sentinel-1 Remote Sensing Data and a Machine Learning Approach: Hybrid Intelligence of Bagging Ensemble Based on K-Nearest Neighbor Classifier. *Remote Sensing*, **2020**, 12, 266	5	96

145	Global Solar Radiation Estimation and Climatic Variability Analysis Using Extreme Learning Machine Based Predictive Model. *IEEE Access*, **2020**, 8, 12026-12042	3.5	34
144	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction. *IEEE Access*, **2020**, 8, 83347-83358	3.5	14
143	Cross Assessment of Twenty-One Different Methods for Missing Precipitation Data Estimation. *Atmosphere*, **2020**, 11, 389	2.7	3
142	Changes in Climatic Water Availability and Crop Water Demand for Iraq Region. *Sustainability*, **2020**, 12, 3437	3.6	24
141	. *IEEE Access*, **2020**, 8, 51884-51904	3.5	29
140	A Novel Hybrid Soft Computing Model Using Random Forest and Particle Swarm Optimization for Estimation of Undrained Shear Strength of Soil. *Sustainability*, **2020**, 12, 2218	3.6	45
139	Improvement of Credal Decision Trees Using Ensemble Frameworks for Groundwater Potential Modeling. *Sustainability*, **2020**, 12, 2622	3.6	24
138	Mapping of Groundwater Spring Potential in Karst Aquifer System Using Novel Ensemble Bivariate and Multivariate Models. *Water (Switzerland)*, **2020**, 12, 985	3	30
137	Soft Computing Ensemble Models Based on Logistic Regression for Groundwater Potential Mapping. *Applied Sciences (Switzerland)*, **2020**, 10, 2469	2.6	71
136	Framework of Spatial Flood Risk Assessment for a Case Study in Quang Binh Province, Vietnam. *Sustainability*, **2020**, 12, 3058	3.6	12
135	Data-Driven Model for the Prediction of Total Dissolved Gas: Robust Artificial Intelligence Approach. *Advances in Civil Engineering*, **2020**, 2020, 1-20	1.3	11
134	PERFORMANCE INVESTIGATION OF FURNACE BOTTOM ASH AS A FILTER MEDIA FOR PHOSPHATE REMOVAL. *Environmental Engineering and Management Journal*, **2020**, 19, 643-653	0.6	1
133	Estimation the Virtual Water Content and the Virtual Water Transfer for Iraqi Wheat. *Journal of Physics: Conference Series*, **2020**, 1664, 012143	0.3	1
132	Assessment of Main Cereal Crop Trade Impacts on Water and Land Security in Iraq. *Agronomy*, **2020**, 10, 98	3.6	56
131	Development of Bi-Langmuir model on the sorption of cadmium onto waste foundry sand: Effects of initial pH and temperature. *Environmental Engineering Research*, **2020**, 25, 677-684	3.6	17
130	Synthesis of a Novel Composite Sorbent Coated with Siderite Nanoparticles and its Application for Remediation of Water Contaminated with Congo Red Dye. *International Journal of Environmental Research*, **2020**, 14, 177-191	2.9	16
129	Modeling monthly pan evaporation process over the Indian central Himalayas: application of multiple learning artificial intelligence model. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 323-338	4.5	42
128	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 70-89	4.5	32

127	Effects of Inter-Basin Water Transfer on Water Flow Condition of Destination Basin. *Sustainability*, **2020**, 12, 338	3.6	7
126	Controllable drilling parameter optimization for roller cone and polycrystalline diamond bits. *Journal of Petroleum Exploration and Production*, **2020**, 10, 1657-1674	2.2	5
125	The Role of Geological Investigations for Dam Siting: Mosul Dam a Case Study. *Geotechnical and Geological Engineering*, **2020**, 38, 2085-2096	1.5	7
124	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 90-106	4.5	59
123	Horizontal and Vertical Geotechnical Variations of Soils According to USCS Classification for the City of An-Najaf, Iraq Using GIS. *Geotechnical and Geological Engineering*, **2020**, 38, 1919-1938	1.5	10
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