

Abdul Razzaq Ghumman

List of Publications by Year in descending order

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55
papers

969
citations

471371

17
h-index

477173

29
g-index

55
all docs

55
docs citations

55
times ranked

980
citing authors

#	ARTICLE	IF	CITATIONS
1	Runoff forecasting by artificial neural network and conventional model. AEJ - Alexandria Engineering Journal, 2011, 50, 345-350.	3.4	72
2	Estimation of Clark's Instantaneous Unit Hydrograph Parameters and Development of Direct Surface Runoff Hydrograph. Water Resources Management, 2009, 23, 2417-2435.	1.9	67
3	Carbon emissions from power sector in Pakistan and opportunities to mitigate those. Renewable and Sustainable Energy Reviews, 2014, 34, 71-77.	8.2	60
4	Performance assessment of aquatic macrophytes for treatment of municipal wastewater. Journal of Environmental Health Science & Engineering, 2014, 12, 106.	1.4	54
5	Estimation of a Unique Pair of Nash Model Parameters: An Optimization Approach. Water Resources Management, 2010, 24, 2971-2989.	1.9	53
6	Groundwater modeling of Saq Aquifer Buraydah Al Qassim for better water management strategies. Environmental Monitoring and Assessment, 2011, 173, 851-860.	1.3	52
7	Future Predictions of Rainfall and Temperature Using GCM and ANN for Arid Regions: A Case Study for the Qassim Region, Saudi Arabia. Water (Switzerland), 2018, 10, 1260.	1.2	38
8	Impact Assessment of Rainfall-Runoff Simulations on the Flow Duration Curve of the Upper Indus River—A Comparison of Data-Driven and Hydrologic Models. Water (Switzerland), 2018, 10, 876.	1.2	37
9	Performance assessment of artificial neural networks and support vector regression models for stream flow predictions. Environmental Monitoring and Assessment, 2018, 190, 704.	1.3	34
10	Framework to Establish Economic Level of Leakage for Intermittent Water Supplies in Arid Environments. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	30
11	Assessment of water quality of Rawal Lake by long-time monitoring. Environmental Monitoring and Assessment, 2011, 180, 115-126.	1.3	25
12	Development of a Rainfall-Runoff Model, its Calibration and Validation. Water Resources Management, 2001, 15, 149-163.	1.9	23
13	Impact assessment of subsurface drainage on waterlogged and saline lands. Environmental Monitoring and Assessment, 2011, 172, 189-197.	1.3	22
14	COMPARATIVE EVALUATION OF IMPLEMENTING PARTICIPATORY IRRIGATION MANAGEMENT IN PUNJAB, PAKISTAN. Irrigation and Drainage, 2014, 63, 315-327.	0.8	21
15	Evaluating the impact of lower resolutions of digital elevation model on rainfall-runoff modeling for ungauged catchments. Environmental Monitoring and Assessment, 2017, 189, 54.	1.3	21
16	Sustainability Evaluation of Rainwater Harvesting-Based Flood Risk Management Strategies: A Multilevel Decision-Making Framework for Arid Environments. Arabian Journal for Science and Engineering, 2019, 44, 8465-8488.	1.7	20
17	Impact Assessment of Pier Shape and Modifications on Scouring around Bridge Pier. Water (Switzerland), 2019, 11, 1761.	1.2	19
18	Evaluating the Impacts of Pumping on Aquifer Depletion in Arid Regions Using MODFLOW, ANFIS and ANN. Water (Switzerland), 2020, 12, 2297.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Predicting streamflows to a multipurpose reservoir using artificial neural networks and regression techniques. <i>Earth Science Informatics</i> , 2015, 8, 337-352.	1.6	17
20	Sustainability Evaluation Framework of Urban Stormwater Drainage Options for Arid Environments Using Hydraulic Modeling and Multicriteria Decision-Making. <i>Water (Switzerland)</i> , 2018, 10, 581.	1.2	17
21	Assessment Framework for Natural Groundwater Contamination in Arid Regions: Development of Indices and Wells Ranking System Using Fuzzy VIKOR Method. <i>Water (Switzerland)</i> , 2020, 12, 423.	1.2	17
22	Performance assessment of aquatic macrophytes for treatment of municipal wastewater. <i>Journal of the South African Institution of Civil Engineering</i> , 2015, 57, 18-25.	0.3	16
23	Treatment of Ablution Greywater for Recycling by Alum Coagulation and Activated Carbon Adsorption. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 8389-8399.	1.7	15
24	Development of Groundwater Quality Index Using Fuzzy-Based Multicriteria Analysis for Buraydah, Qassim, Saudi Arabia. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 4033-4051.	1.7	14
25	Experimental and numerical investigations for optimal emitter spacing in drip irrigation. <i>Irrigation and Drainage</i> , 2018, 67, 724-737.	0.8	14
26	Experimental Investigation of Flood Energy Dissipation by Single and Hybrid Defense System. <i>Water (Switzerland)</i> , 2019, 11, 1971.	1.2	14
27	Identification of Parameters of Evaporation Equations Using an Optimization Technique Based on Pan Evaporation. <i>Water (Switzerland)</i> , 2020, 12, 228.	1.2	14
28	Wastewater treatment by microalgal membrane bioreactor: Evaluating the effect of organic loading rate and hydraulic residence time. <i>Journal of Environmental Management</i> , 2021, 278, 111548.	3.8	13
29	Modification of the damping function in the μ model to analyse oscillatory boundary layers. <i>Ocean Engineering</i> , 2007, 34, 320-326.	1.9	12
30	Hydrological response of two high altitude Swiss catchments to energy balance and temperature index melt schemes. <i>Polar Science</i> , 2018, 17, 1-12.	0.5	12
31	Flood Inundation Modeling for a Watershed in the Pothowar Region of Pakistan. <i>Arabian Journal for Science and Engineering</i> , 2011, 36, 1203-1220.	1.1	10
32	Source to Tap Risk Assessment for Intermittent Water Supply Systems in Arid Regions: An Integrated FTA-Fuzzy FMEA Methodology. <i>Environmental Management</i> , 2021, 67, 324-341.	1.2	10
33	Use of numerical modelling for management of canal irrigation water. <i>Irrigation and Drainage</i> , 2006, 55, 445-458.	0.8	9
34	Environmental and socio-economic impacts of pipe drainage in Pakistan. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 1671-1681.	1.3	9
35	Development of geomorphologic instantaneous unit hydrograph for a large watershed. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 3153-3163.	1.3	8
36	Optimally sizing small hydropower project under future projected flows. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 1964-1978.	0.9	8

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37	Development of Consumer Perception Index for assessing greywater reuse potential in arid environments. <i>Water S A</i> , 2018, 44, .	0.2	8
38	Simulation of Pan-Evaporation Using Penman and Hamon Equations and Artificial Intelligence Techniques. <i>Water (Switzerland)</i> , 2021, 13, 793.	1.2	8
39	Spatiotemporal variations of DOM components in the Kushiro River impacted by a wetland. <i>Environmental Science and Pollution Research</i> , 2020, 27, 18287-18302.	2.7	6
40	Investigation of the impact of global warming on precipitation pattern of Saudi Arabia. <i>Civil Engineering and Environmental Systems</i> , 2010, 27, 365-376.	0.4	5
41	Ranking sensitive calibrating parameters of UBC Watershed Model. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 1538-1547.	0.9	5
42	Application of Godunov Type 2D Model for Simulating Sediment Flushing in a Reservoir. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 4289-4307.	1.7	5
43	Functional data analysis of models for predicting temperature and precipitation under climate change scenarios. <i>Journal of Water and Climate Change</i> , 2020, 11, 1748-1765.	1.2	5
44	Hydrodynamic modelling for water-saving strategies in irrigation canals. <i>Irrigation and Drainage</i> , 2008, 57, 400-410.	0.8	4
45	Investigation of temporal change in glacial extent of Chitral watershed using Landsat data. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 43.	1.3	4
46	Sustainable Development of Small-Sized Hydropower Plants: Multilevel Decision-Making from Site Selection to Optimal Design. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 4141-4159.	1.7	4
47	Continuous Performance Improvement Framework for Sustainable Wastewater Treatment Facilities in Arid Regions: Case of Wadi Rumah in Qassim, Saudi Arabia. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6857.	1.2	4
48	Optimal Octagonal Hooked Collar Countermeasure to Reduce Scour Around a Single Bridge Pier. <i>Periodica Polytechnica: Civil Engineering</i> , 2020, , .	0.6	3
49	Evaluating the impact of climate change on stream flow: integrating GCM, hydraulic modelling and functional data analysis. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	3
50	Estimation of a Unique Pair of Nash Model Parameters: An Optimization Approach. , 2010, 24, 2971.		3
51	Flood Estimation by Various Techniques for Small and Large Catchments. , 2006, , 1.		2
52	Experimental investigation of flood energy reduction through vegetation at various angles. <i>River Research and Applications</i> , 2021, 37, 644-655.	0.7	2
53	Planning of Hydraulic Flushing Schedule for Prolonging the Life of a Hydropower Plant. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 487-501.	1.0	1
54	Simulation of Quantity and Quality of Saq Aquifer Using Artificial Intelligence and Hydraulic Models. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-22.	0.4	1

#	ARTICLE	IF	CITATIONS
55	Reply: response to letter to the editor. Environmental Science and Pollution Research, 2021, 28, 4889-4890.	2.7	0