

# Khalid S Hashim

## List of Publications by Year in descending order

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Version: 2024-02-01

99  
papers

3,938  
citations

117625

34  
h-index

138484

58  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1261  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel methodology to predict monthly municipal water demand based on weather variables scenario. <i>Journal of King Saud University, Engineering Sciences</i> , 2022, 34, 163-169.	2.0	14
2	Polycyclic aromatic hydrocarbons (PAHs) in urban street dust within three land-uses of Babylon governorate, Iraq: Distribution, sources, and health risk assessment. <i>Journal of King Saud University, Engineering Sciences</i> , 2022, 34, 231-239.	2.0	15
3	Preliminary Studies of Methylene Blue Remotion from Aqueous Solutions by <i>Ocimum basilicum</i> . <i>Environments - MDPI</i> , 2022, 9, 17.	3.3	11
4	Applications of Computational and Statistical Models for Optimizing the Electrochemical Removal of Cephalixin Antibiotic from Water. <i>Water (Switzerland)</i> , 2022, 14, 344.	2.7	25
5	Personal exposure and inhalation doses to PM1 and PM2.5 pollution in Iraq: An examination of four transport modes. <i>Building and Environment</i> , 2022, 212, 108847.	6.9	12
6	Statistical assessment for performance of Al-Mussaib drinking water treatment plant at the year 2020. <i>Water Practice and Technology</i> , 2022, 17, 808-816.	2.0	5
7	Photocatalysis and flocculation processes for recycling aquaculture effluent into nutrient-rich irrigation water. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 3103-3113.	2.1	1
8	Development of Eco-Friendly Concrete Mix Using Recycled Aggregates: Structural Performance and Pore Feature Study Using Image Analysis. <i>Materials</i> , 2022, 15, 2953.	2.9	11
9	Electrochemical defluorination of water: an experimental and morphological study. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2022, 12, 394-404.	1.8	4
10	Drought Forecasting: A Review and Assessment of the Hybrid Techniques and Data Pre-Processing. <i>Hydrology</i> , 2022, 9, 115.	3.0	25
11	A Review of Hybrid Soft Computing and Data Pre-Processing Techniques to Forecast Freshwater Qualityâ€™s Parameters: Current Trends and Future Directions. <i>Environments - MDPI</i> , 2022, 9, 85.	3.3	12
12	Water purification from metal ions in the presence of organic matter using electromagnetic radiation-assisted treatment. <i>Journal of Cleaner Production</i> , 2021, 280, 124427.	9.3	87
13	Phosphate removal from water using bottom ash: adsorption performance, coexisting anions and modelling studies. <i>Water Science and Technology</i> , 2021, 83, 77-89.	2.5	43
14	How can sensors be used for sustainability improvement?. , 2021, , 321-344.		5
15	Statistical modeling of monthly streamflow using time series and artificial neural network models: Hindiya Barrage as a case study. <i>Water Practice and Technology</i> , 2021, 16, 681-691.	2.0	29
16	Positive environmental effects of the coronavirus 2020 episode: a review. <i>Environment, Development and Sustainability</i> , 2021, 23, 12738-12760.	5.0	61
17	Simulating a Stochastic Signal of Urban Water Demand by a Novel Combination of Data Analytic and Machine Learning Techniques. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1058, 012066.	0.6	1
18	Sustainability assessment of wastewater treatment techniques in urban areas of Iraq using multi-criteria decision analysis (MCDA). <i>Water Practice and Technology</i> , 2021, 16, 648-660.	2.0	34

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19	Improving the performance of crushed limestone concrete utilizing supplementary cementitious materials: A case study in Iraq. IOP Conference Series: Materials Science and Engineering, 2021, 1058, 012002.	0.6	0
20	Evaluation of the Use of Lignocellulosic Biomass in Thermal Insulation for Green Building. IOP Conference Series: Materials Science and Engineering, 2021, 1058, 012023.	0.6	1
21	Impact of high volume GGBS replacement and steel bar length on flexural behaviour of reinforced concrete beams. IOP Conference Series: Materials Science and Engineering, 2021, 1090, 012015.	0.6	1
22	A Non-Destructive Electromagnetic Sensing Technique to Determine Chloride Level in Maritime Concrete. Karbala International Journal of Modern Science, 2021, 7, .	1.0	20
23	Production of Ternary Blend Binder as an Alternative to Portland Cement. IOP Conference Series: Materials Science and Engineering, 2021, 1090, 012069.	0.6	2
24	Early age assessment of cement mortar incorporated high volume fly ash. IOP Conference Series: Materials Science and Engineering, 2021, 1090, 012019.	0.6	1
25	Recent Advancements in Non-Destructive Testing Techniques for Structural Health Monitoring. Applied Sciences (Switzerland), 2021, 11, 2750.	2.5	101
26	The Impact of Using Different Ratios of Latex Rubber on the Characteristics of Mortars Made with GGBS and Portland Cement. IOP Conference Series: Materials Science and Engineering, 2021, 1090, 012043.	0.6	7
27	Influence of High Volume RHA on Properties of Cement Mortar. IOP Conference Series: Materials Science and Engineering, 2021, 1090, 012028.	0.6	2
28	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
29	An Implementation of a Multi-Hop Underwater Wireless Sensor Network using Bowtie Antenna. Karbala International Journal of Modern Science, 2021, 7, .	1.0	18
30	Factors influencing the transformation of Iraqi holy cities: the case of Al-Najaf. Scientific Review Engineering and Environmental Sciences, 2021, 30, 365-375.	0.5	12
31	Developing one-part alkali-activated metakaolin/natural pozzolan binders using lime waste. Advances in Cement Research, 2021, 33, 342-356.	1.6	44
32	A Comprehensive Review for Groundwater Contamination and Remediation: Occurrence, Migration and Adsorption Modelling. Molecules, 2021, 26, 5913.	3.8	65
33	Prediction and Forecasting of Maximum Weather Temperature Using a Linear Autoregressive Model. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012031.	0.3	4
34	Forecasting of Air Maximum Temperature on Monthly Basis Using Singular Spectrum Analysis and Linear Autoregressive Model. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012033.	0.3	1
35	Updated Moving Forecasting Model of Air Maximum Temperature. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012032.	0.3	1
36	The Success of the Construction Industry's Adoption of the Carbon Assessment Strategy PAS2050. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012019.	0.3	0

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37	The utilization of lignocellular bio-mass as green building thermal insulation material. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012052.	0.3	0
38	Mitigating the impact of climate change on UK buildings through zero energy strategies. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012018.	0.3	1
39	Production of Ultra-High-Performance Concrete with Low Energy Consumption and Carbon Footprint Using Supplementary Cementitious Materials Instead of Silica Fume: A Review. Energies, 2021, 14, 8291.	3.1	17
40	RSM (Response Surface Methodology) Modelling of Inter-Electrodes Spacing Effects on Phosphate Removal. , 2021, , .		6
41	Investigating municipal solid waste management system performance during the Arbaa™een event in the city of Kerbala, Iraq. Environment, Development and Sustainability, 2020, 22, 1431-1454.	5.0	27
42	Simultaneous removal of phenol and linear alkylbenzene sulfonate from automotive service station wastewater: Optimization of coupled electrochemical and physical processes. Separation Science and Technology, 2020, 55, 3184-3194.	2.5	96
43	Electrocoagulation as an Eco-Friendly River Water Treatment Method. Lecture Notes in Civil Engineering, 2020, , 219-235.	0.4	32
44	Energy efficient electrocoagulation using baffle-plates electrodes for efficient Escherichia coli removal from wastewater. Journal of Water Process Engineering, 2020, 33, 101079.	5.6	107
45	Electrochemical removal of nitrate from wastewater. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012037.	0.6	11
46	Hybridised Artificial Neural Network Model with Slime Mould Algorithm: A Novel Methodology for Prediction of Urban Stochastic Water Demand. Water (Switzerland), 2020, 12, 2692.	2.7	102
47	Ultrasonic-electrochemical treatment for effluents of concrete plants. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012063.	0.6	6
48	Experimental data on compressive strength and ultrasonic pulse velocity properties of sustainable mortar made with high content of GGBFS and CKD combinations. Data in Brief, 2020, 31, 105961.	1.0	70
49	Natural filtration unit for removal of heavy metals from water. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012034.	0.6	40
50	Electrochemical removal of brilliant green dye from wastewater. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012036.	0.6	32
51	Urban Water Demand Prediction for a City That Suffers from Climate Change and Population Growth: Gauteng Province Case Study. Water (Switzerland), 2020, 12, 1885.	2.7	125
52	Removal of organic matter from water using ultrasonic-assisted electrocoagulation method. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012033.	0.6	19
53	Removal of iron from wastewater using a hybrid filter. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012035.	0.6	17
54	Forecasting of monthly stochastic signal of urban water demand: Baghdad as a case study. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012018.	0.6	18

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55	Ultrasonic-Electrocoagulation method for nitrate removal from water. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012073.	0.6	38
56	Long-term performance of novel high-calcium one-part alkali-activated cement developed from thermally activated lime kiln dust. Journal of Building Engineering, 2020, 32, 101766.	3.4	56
57	Zeolite-assisted electrocoagulation for remediation of phosphate from calcium-phosphate solution. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012031.	0.6	25
58	Treatment of effluents of construction industry using a combined filtration-electrocoagulation method. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012032.	0.6	23
59	Cost-effective hybrid filter for remediation of water from fluoride. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012038.	0.6	22
60	Turbidity removal using natural coagulants derived from the seeds of strychnos potatorum: statistical and experimental approach. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012064.	0.6	25
61	A Novel Methodology for Prediction Urban Water Demand by Wavelet Denoising and Adaptive Neuro-Fuzzy Inference System Approach. Water (Switzerland), 2020, 12, 1628.	2.7	76
62	Properties of cement mortar incorporated high volume fraction of GGBFS and CKD from 1 day to 550 days. Journal of Building Engineering, 2020, 30, 101327.	3.4	41
63	Escherichia coli inactivation using a hybrid ultrasonic-electrocoagulation reactor. Chemosphere, 2020, 247, 125868.	8.2	97
64	A Method for Predicting Long-Term Municipal Water Demands Under Climate Change. Water Resources Management, 2020, 34, 1265-1279.	3.9	106
65	The Effects of Different Shaped Baffle Blocks on the Energy Dissipation. Civil Engineering Journal (Iran), 2020, 6, 961-973.	3.9	12
66	The impact of grinding time on properties of cement mortar incorporated high volume waste paper sludge ash. Karbala International Journal of Modern Science, 2020, 6, .	1.0	62
67	The Development of a New Low Carbon Binder for Construction as an Alternative to Cement. Lecture Notes in Civil Engineering, 2020, , 205-213.	0.4	8
68	Electrocoagulation as a green technology for phosphate removal from river water. Separation and Purification Technology, 2019, 210, 135-144.	7.9	184
69	Influence of current density and electrodes spacing on reactive red 120 dye removal from dyed water using electrocoagulation/electroflotation (EC/EF) process. IOP Conference Series: Materials Science and Engineering, 2019, 584, 012035.	0.6	22
70	Effect of initial pH value on the removal of reactive black dye from water by electrocoagulation (EC) method. Journal of Physics: Conference Series, 2019, 1294, 072017.	0.4	43
71	Development of Risk Optimisation Model for Oil and Gas Transportation Pipeline Routes. IOP Conference Series: Materials Science and Engineering, 2019, 584, 012025.	0.6	2
72	Embedded Smart Antenna for Non-Destructive Testing and Evaluation (NDT&E) of Moisture Content and Deterioration in Concrete. Sensors, 2019, 19, 547.	3.8	68

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73	A First Implementation of Underwater Communications in Raw Water Using the 433 MHz Frequency Combined with a Bowtie Antenna. <i>Sensors</i> , 2019, 19, 1813.	3.8	75
74	An analyses of the status of landfill classification systems in developing countries: Sub Saharan Africa landfill experiences. <i>Waste Management</i> , 2019, 87, 761-771.	7.4	148
75	Investigating the influence of cement replacement by high volume of GGBS and PFA on the mechanical performance of cement mortar. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 584, 012022.	0.6	15
76	Using LARS “WG model for prediction of temperature in Columbia City, USA. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 584, 012026.	0.6	20
77	A Novel Gesomin Detection Method Based on Microwave Spectroscopy. , 2019, , .		28
78	The Prediction of Municipal Water Demand in Iraq: A Case Study of Baghdad Governorate. , 2019, , .		46
79	Novel Electromagnetic Sensors Embedded in Reinforced Concrete Beams for Crack Detection. <i>Sensors</i> , 2019, 19, 5175.	3.8	81
80	Real-Time Detection of Plastic Shards in Cheese Using Microwave-Sensing Technique. <i>Proceedings (mdpi)</i> , 2019, 42, .	0.2	0
81	Estimating solid waste generation by hospitality industry during major festivals: A quantification model based on multiple regression. <i>Waste Management</i> , 2018, 77, 388-400.	7.4	105
82	Sustainable and Environmental Friendly Ancient Reed Houses (Inspired by the Past to Motivate the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
83	Removal of phosphate from River water using a new baffle plates electrochemical reactor. <i>MethodsX</i> , 2018, 5, 1413-1418.	1.6	68
84	Benchmarking of the Current Solid Waste Management System in Karbala, Iraq, Using Wasteaware Benchmark Indicators. , 2018, , .		4
85	The development of a low carbon binder produced from the ternary blending of cement, ground granulated blast furnace slag and high calcium fly ash: An experimental and statistical approach. <i>Construction and Building Materials</i> , 2018, 187, 1051-1060.	7.2	122
86	Defluoridation of drinking water using a new flow column-electrocoagulation reactor (FCER) - Experimental, statistical, and economic approach. <i>Journal of Environmental Management</i> , 2017, 197, 80-88.	7.8	117
87	Energy efficient electrocoagulation using a new flow column reactor to remove nitrate from drinking water “ Experimental, statistical, and economic approach. <i>Journal of Environmental Management</i> , 2017, 196, 224-233.	7.8	118
88	Iron removal, energy consumption and operating cost of electrocoagulation of drinking water using a new flow column reactor. <i>Journal of Environmental Management</i> , 2017, 189, 98-108.	7.8	156
89	Improving sludge settleability by introducing an innovative, two-stage settling sequencing batch reactor. <i>Journal of Water Process Engineering</i> , 2017, 20, 207-216.	5.6	72
90	Facing Up to Waste: How Can Hotel Managers in Kerbala, Iraq, Help the City Deal with its Waste Problem?. <i>Procedia Engineering</i> , 2017, 196, 771-778.	1.2	26

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91	The Development of a Waste Management System in Kerbala during Major Pilgrimage Events: Determination of Solid Waste Composition. <i>Procedia Engineering</i> , 2017, 196, 779-784.	1.2	76
92	Treatment of Residential Complexes'™ Wastewater using Environmentally Friendly Technology. <i>Procedia Engineering</i> , 2017, 196, 792-799.	1.2	68
93	Online Monitoring of a Sequencing Batch Reactor Treating Domestic Wastewater. <i>Procedia Engineering</i> , 2017, 196, 800-807.	1.2	29
94	An Investigation Into The Level Of Heavy Metals Leaching From Canal-Dreged Sediment: A Case Study Metals Leaching From Dreged Sediment. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 454, 012022.	0.6	33
95	Decolourization of dye solutions by electrocoagulation: an investigation of the effect of operational parameters. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 584, 012024.	0.6	18
96	Enhancing the fuel properties of beverage wastes as non-edible feedstock for biofuel production. <i>Biofuels</i> , 0, , 1-8.	2.4	10
97	Statistical modelling of turbidity removal applied to non-toxic natural coagulants in water treatment: a case study. , 0, 150, 406-412.		72
98	Assessment of heavy metal pollution in the Great Al-Mussaib irrigation channel. , 0, 168, 165-174.		73
99	The treatment of printing and packaging wastewater by electrocoagulation-flotation: the simultaneous efficacy of critical parameters and economics. , 0, 205, 161-174.		36