

# Khalid S Hashim

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95  
papers

2,797  
citations

29  
h-index

51  
g-index

100  
ext. papers

3,398  
ext. citations

2.4  
avg, IF

6.1  
L-index

#	Paper	IF	Citations
95	Electrocoagulation as a green technology for phosphate removal from river water. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 135-144	8.3	141
94	Iron removal, energy consumption and operating cost of electrocoagulation of drinking water using a new flow column reactor. <i>Journal of Environmental Management</i> , <b>2017</b> , 189, 98-108	7.9	131
93	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> , <b>2017</b> , 196, 224-233	7.9	101
92	An analyses of the status of landfill classification systems in developing countries: Sub Saharan Africa landfill experiences. <i>Waste Management</i> , <b>2019</b> , 87, 761-771	8.6	101
91	Defluoridation of drinking water using a new flow column-electrocoagulation reactor (FCER) - Experimental, statistical, and economic approach. <i>Journal of Environmental Management</i> , <b>2017</b> , 197, 80-88 <sup>9</sup>	7.9	99
90	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> , <b>2018</b> , 187, 1051-1060	6.7	90
89	Energy efficient electrocoagulation using baffle-plates electrodes for efficient Escherichia coli removal from wastewater. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 33, 101079	6.7	90
88	Escherichia coli inactivation using a hybrid ultrasonic-electrocoagulation reactor. <i>Chemosphere</i> , <b>2020</b> , 247, 125868	8.4	82
87	A Method for Predicting Long-Term Municipal Water Demands Under Climate Change. <i>Water Resources Management</i> , <b>2020</b> , 34, 1265-1279	3.7	82
86	Urban Water Demand Prediction for a City That Suffers from Climate Change and Population Growth: Gauteng Province Case Study. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1885	3	82
85	Simultaneous removal of phenol and linear alkylbenzene sulfonate from automotive service station wastewater: Optimization of coupled electrochemical and physical processes. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 3184-3194	2.5	79
84	Estimating solid waste generation by hospitality industry during major festivals: A quantification model based on multiple regression. <i>Waste Management</i> , <b>2018</b> , 77, 388-400	8.6	77
83	Water purification from metal ions in the presence of organic matter using electromagnetic radiation-assisted treatment. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124427	10.3	69
82	Assessment of heavy metal pollution in the Great Al-Mussaib irrigation channel168, 165-174		67
81	Statistical modelling of turbidity removal applied to non-toxic natural coagulants in water treatment: a case study150, 406-412		66
80	Novel Electromagnetic Sensors Embedded in Reinforced Concrete Beams for Crack Detection. <i>Sensors</i> , <b>2019</b> , 19,	3.8	66
79	Hybridised Artificial Neural Network Model with Slime Mould Algorithm: A Novel Methodology for Prediction of Urban Stochastic Water Demand. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2692	3	65

78	A First Implementation of Underwater Communications in Raw Water Using the 433 MHz Frequency Combined with a Bowtie Antenna. <i>Sensors</i> , <b>2019</b> , 19,	3.8	64
77	The Development of a Waste Management System in Kerbala during Major Pilgrimage Events: Determination of Solid Waste Composition. <i>Procedia Engineering</i> , <b>2017</b> , 196, 779-784		64
76	Treatment of Residential Complexes Wastewater using Environmentally Friendly Technology. <i>Procedia Engineering</i> , <b>2017</b> , 196, 792-799		62
75	Improving sludge settleability by introducing an innovative, two-stage settling sequencing batch reactor. <i>Journal of Water Process Engineering</i> , <b>2017</b> , 20, 207-216	6.7	60
74	Experimental data on compressive strength and ultrasonic pulse velocity properties of sustainable mortar made with high content of GGBFS and CKD combinations. <i>Data in Brief</i> , <b>2020</b> , 31, 105961	1.2	59
73	Removal of phosphate from River water using a new baffle plates electrochemical reactor. <i>MethodsX</i> , <b>2018</b> , 5, 1413-1418	1.9	59
72	Embedded Smart Antenna for Non-Destructive Testing and Evaluation (NDT&E) of Moisture Content and Deterioration in Concrete. <i>Sensors</i> , <b>2019</b> , 19,	3.8	54
71	A Novel Methodology for Prediction Urban Water Demand by Wavelet Denoising and Adaptive Neuro-Fuzzy Inference System Approach. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1628	3	54
70	The impact of grinding time on properties of cement mortar incorporated high volume waste paper sludge ash. <i>Karbala International Journal of Modern Science</i> , <b>2020</b> , 6,	4.6	49
69	Long-term performance of novel high-calcium one-part alkali-activated cement developed from thermally activated lime kiln dust. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101766	5.2	47
68	The Prediction of Municipal Water Demand in Iraq: A Case Study of Baghdad Governorate <b>2019</b> ,		39
67	Recent Advancements in Non-Destructive Testing Techniques for Structural Health Monitoring. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2750	2.6	38
66	Effect of initial pH value on the removal of reactive black dye from water by electrocoagulation (EC) method. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1294, 072017	0.3	28
65	Developing one-part alkali-activated metakaolin/natural pozzolan binders using lime waste. <i>Advances in Cement Research</i> , <b>2021</b> , 33, 342-356	1.8	28
64	Natural filtration unit for removal of heavy metals from water. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012034	0.4	27
63	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> , <b>2018</b> , 454, 012022	0.4	27
62	Facing Up to Waste: How Can Hotel Managers in Kerbala, Iraq, Help the City Deal with its Waste Problem?. <i>Procedia Engineering</i> , <b>2017</b> , 196, 771-778		26
61	Ultrasonic-Electrocoagulation method for nitrate removal from water. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012073	0.4	26

60	Positive environmental effects of the coronavirus 2020 episode: a review. <i>Environment, Development and Sustainability</i> , <b>2021</b> , 23, 1-23	4.5	26
59	Online Monitoring of a Sequencing Batch Reactor Treating Domestic Wastewater. <i>Procedia Engineering</i> , <b>2017</b> , 196, 800-807		25
58	Properties of cement mortar incorporated high volume fraction of GGBFS and CKD from 1 day to 550 days. <i>Journal of Building Engineering</i> , <b>2020</b> , 30, 101327	5.2	24
57	A Novel Gesomin Detection Method Based on Microwave Spectroscopy <b>2019</b> ,		24
56	Electrocoagulation as an Eco-Friendly River Water Treatment Method. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 219-235	0.3	22
55	Investigating municipal solid waste management system performance during the ArbaEen event in the city of Kerbala, Iraq. <i>Environment, Development and Sustainability</i> , <b>2020</b> , 22, 1431-1454	4.5	21
54	Zeolite-assisted electrocoagulation for remediation of phosphate from calcium-phosphate solution. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012031	0.4	20
53	The treatment of printing and packaging wastewater by electrocoagulation-flotation: the simultaneous efficacy of critical parameters and economics		20
52	Treatment of effluents of construction industry using a combined filtration-electrocoagulation method. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012032	0.4	19
51	Sustainability assessment of wastewater treatment techniques in urban areas of Iraq using multi-criteria decision analysis (MCDA). <i>Water Practice and Technology</i> , <b>2021</b> , 16, 648-660	0.9	19
50	Cost-effective hybrid filter for remediation of water from fluoride. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012038	0.4	18
49	Electrochemical removal of brilliant green dye from wastewater. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012036	0.4	18
48	Phosphate removal from water using bottom ash: adsorption performance, coexisting anions and modelling studies. <i>Water Science and Technology</i> , <b>2021</b> , 83, 77-89	2.2	16
47	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> , <b>2021</b> , 16, 681-691	0.9	16
46	Turbidity removal using natural coagulants derived from the seeds of <i>strychnos potatorum</i> : statistical and experimental approach. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012064	0.4	15
45	Removal of organic matter from water using ultrasonic-assisted electrocoagulation method. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012033	0.4	15
44	Using LARS WVG model for prediction of temperature in Columbia City, USA. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 584, 012026	0.4	15
43	Removal of iron from wastewater using a hybrid filter. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012035	0.4	13

42	Forecasting of monthly stochastic signal of urban water demand: Baghdad as a case study. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012018	0.4	13
41	A Non-Destructive Electromagnetic Sensing Technique to Determine Chloride Level in Maritime Concrete. <i>Karbala International Journal of Modern Science</i> , <b>2021</b> , 7,	4.6	13
40	An Implementation of a Multi-Hop Underwater Wireless Sensor Network using Bowtie Antenna. <i>Karbala International Journal of Modern Science</i> , <b>2021</b> , 7,	4.6	12
39	Influence of current density and electrodes spacing on reactive red 120 dye removal from dyed water using electrocoagulation/electroflotation (EC/EF) process. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 584, 012035	0.4	10
38	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> , <b>2019</b> , 584, 012022	0.4	9
37	Decolourization of dye solutions by electrocoagulation: an investigation of the effect of operational parameters. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 584, 012024	0.4	9
36	A novel methodology to predict monthly municipal water demand based on weather variables scenario. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2020</b> ,	2.2	8
35	Electrochemical removal of nitrate from wastewater. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012037	0.4	8
34	Enhancing the fuel properties of beverage wastes as non-edible feedstock for biofuel production. <i>Biofuels</i> , 1-8	2	8
33	Sustainable and Environmental Friendly Ancient Reed Houses (Inspired by the Past to Motivate the Future) <b>2018</b> ,		7
32	Factors influencing the transformation of Iraqi holy cities: the case of Al-Najaf. <i>Scientific Review Engineering and Environmental Sciences</i> , <b>2021</b> , 30, 365-375	0.4	7
31	A Comprehensive Review for Groundwater Contamination and Remediation: Occurrence, Migration and Adsorption Modelling. <i>Molecules</i> , <b>2021</b> , 26,	4.8	7
30	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> , <b>2020</b> ,	2.2	6
29	The Effects of Different Shaped Baffle Blocks on the Energy Dissipation. <i>Civil Engineering Journal (Iran)</i> , <b>2020</b> , 6, 961-973	5.2	5
28	Benchmarking of the Current Solid Waste Management System in Karbala, Iraq, Using Wasteaware Benchmark Indicators <b>2018</b> ,		4
27	Applications of Computational and Statistical Models for Optimizing the Electrochemical Removal of Cephalixin Antibiotic from Water. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 344	3	4
26	The Development of a New Low Carbon Binder for Construction as an Alternative to Cement. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 205-213	0.3	3
25	Ultrasonic-electrochemical treatment for effluents of concrete plants. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 888, 012063	0.4	3

24	Noise Level in Textile Industries: Case Study Al-Hillah Textile Factory-Company for Textile Industries, Al-Hillah-Babylon-Iraq. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 790, 012048	0.3	3
23	Preliminary Studies of Methylene Blue Remotion from Aqueous Solutions by Ocimum basilicum. <i>Environments - MDPI</i> , <b>2022</b> , 9, 17	3.2	2
22	The Impact of Using Different Ratios of Latex Rubber on the Characteristics of Mortars Made with GGBS and Portland Cement. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1090, 012043	0.4	2
21	Development of Risk Optimisation Model for Oil and Gas Transportation Pipeline Routes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 584, 012025	0.4	1
20	How can sensors be used for sustainability improvement? <b>2021</b> , 321-344		1
19	Development of Eco-Friendly Concrete Mix Using Recycled Aggregates: Structural Performance and Pore Feature Study Using Image Analysis.. <i>Materials</i> , <b>2022</b> , 15,	3.5	1
18	Personal exposure and inhalation doses to PM1 and PM2.5 pollution in Iraq: An examination of four transport modes. <i>Building and Environment</i> , <b>2022</b> , 212, 108847	6.5	0
17	Prediction and Forecasting of Maximum Weather Temperature Using a Linear Autoregressive Model. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 877, 012031	0.3	0
16	Impact of high volume GGBS replacement and steel bar length on flexural behaviour of reinforced concrete beams. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1090, 012015	0.4	0
15	Production of Ternary Blend Binder as an Alternative to Portland Cement. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1090, 012069	0.4	0
14	Statistical assessment for performance of Al-Mussaib drinking water treatment plant at the year 2020. <i>Water Practice and Technology</i> , <b>2022</b> , 17, 808-816	0.9	0
13	Production of Ultra-High-Performance Concrete with Low Energy Consumption and Carbon Footprint Using Supplementary Cementitious Materials Instead of Silica Fume: A Review. <i>Energies</i> , <b>2021</b> , 14, 8291	3.1	0
12	Real-Time Detection of Plastic Shards in Cheese Using Microwave-Sensing Technique. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 54	0.3	
11	Forecasting of Air Maximum Temperature on Monthly Basis Using Singular Spectrum Analysis and Linear Autoregressive Model. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 877, 012033	0.3	
10	Updated Moving Forecasting Model of Air Maximum Temperature. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 877, 012032	0.3	
9	The Success of the Construction Industry's Adoption of the Carbon Assessment Strategy PAS2050. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 877, 012019	0.3	
8	The utilization of lignocellular bio-mass as green building thermal insulation material. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 877, 012052	0.3	
7	Mitigating the impact of climate change on UK buildings through zero energy strategies. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 877, 012018	0.3	

- 6 Early age assessment of cement mortar incorporated high volume fly ash. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1090, 012019 0.4
- 5 Influence of High Volume RHA on Properties of Cement Mortar. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1090, 012028 0.4
- 4 Simulating a Stochastic Signal of Urban Water Demand by a Novel Combination of Data Analytic and Machine Learning Techniques. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1058, 012066 0.4
- 3 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 0.4
- 2 Evaluation of the Use of Lignocellulic Biomass in Thermal Insulation for Green Building. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1058, 012023 0.4
- 1 Photocatalysis and flocculation processes for recycling aquaculture effluent into nutrient-rich irrigation water. *Water Science and Technology: Water Supply*, **2022**, 22, 3103-3113 1.4