

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	Electrocoagulation as a green technology for phosphate removal from river water. Separation and Purification Technology, 2019, 210, 135-144.	7.9	184
2	Iron removal, energy consumption and operating cost of electrocoagulation of drinking water using a new flow column reactor. Journal of Environmental Management, 2017, 189, 98-108.	7.8	156
3	An analyses of the status of landfill classification systems in developing countries: Sub Saharan Africa landfill experiences. Waste Management, 2019, 87, 761-771.	7.4	148
4	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
5	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. Construction and Building Materials, 2018, 187, 1051-1060.	7.2	122
6	Energy efficient electrocoagulation using a new flow column reactor to remove nitrate from drinking water – Experimental, statistical, and economic approach. Journal of Environmental Management, 2017, 196, 224-233.	7.8	118
7	Defluoridation of drinking water using a new flow column-electrocoagulation reactor (FCER) - Experimental, statistical, and economic approach. Journal of Environmental Management, 2017, 197, 80-88.	7.8	117
8	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
9	A Method for Predicting Long-Term Municipal Water Demands Under Climate Change. Water Resources Management, 2020, 34, 1265-1279.	3.9	106
10	Estimating solid waste generation by hospitality industry during major festivals: A quantification model based on multiple regression. Waste Management, 2018, 77, 388-400.	7.4	105
11	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
12	Recent Advancements in Non-Destructive Testing Techniques for Structural Health Monitoring. Applied Sciences (Switzerland), 2021, 11, 2750.	2.5	101
13	Escherichia coli inactivation using a hybrid ultrasonic-electrocoagulation reactor. Chemosphere, 2020, 247, 125868.	8.2	97
14	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
15	Water purification from metal ions in the presence of organic matter using electromagnetic radiation-assisted treatment. Journal of Cleaner Production, 2021, 280, 124427.	9.3	87
16	Novel Electromagnetic Sensors Embedded in Reinforced Concrete Beams for Crack Detection. Sensors, 2019, 19, 5175.	3.8	81
17	The Development of a Waste Management System in Kerbala during Major Pilgrimage Events: Determination of Solid Waste Composition. Procedia Engineering, 2017, 196, 779-784.	1.2	76
18	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

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19	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
20	Assessment of heavy metal pollution in the Great Al-Mussaib irrigation channel. , 0, 168, 165-174.		73
21	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
22	Statistical modelling of turbidity removal applied to non-toxic natural coagulants in water treatment: a case study. , 0, 150, 406-412.		72
23	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> , 2020, 31, 105961.	1.0	70
24	Treatment of Residential Complexesâ€™ Wastewater using Environmentally Friendly Technology. <i>Procedia Engineering</i> , 2017, 196, 792-799.	1.2	68
25	Removal of phosphate from River water using a new baffle plates electrochemical reactor. <i>MethodsX</i> , 2018, 5, 1413-1418.	1.6	68
26	Embedded Smart Antenna for Non-Destructive Testing and Evaluation (NDT&E) of Moisture Content and Deterioration in Concrete. <i>Sensors</i> , 2019, 19, 547.	3.8	68
27	A Comprehensive Review for Groundwater Contamination and Remediation: Occurrence, Migration and Adsorption Modelling. <i>Molecules</i> , 2021, 26, 5913.	3.8	65
28	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> , 2020, 6, .	1.0	62
29	Positive environmental effects of the coronavirus 2020 episode: a review. <i>Environment, Development and Sustainability</i> , 2021, 23, 12738-12760.	5.0	61
30	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> , 2020, 32, 101766.	3.4	56
31	The Prediction of Municipal Water Demand in Iraq: A Case Study of Baghdad Governorate. , 2019, , .		46
32	Developing one-part alkali-activated metakaolin/natural pozzolan binders using lime waste. <i>Advances in Cement Research</i> , 2021, 33, 342-356.	1.6	44
33	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> , 2019, 1294, 072017.	0.4	43
34	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
35	Properties of cement mortar incorporated high volume fraction of GGBFS and CKD from 1 day to 550 days. <i>Journal of Building Engineering</i> , 2020, 30, 101327.	3.4	41
36	Natural filtration unit for removal of heavy metals from water. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 888, 012034.	0.6	40

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37	Ultrasonic-Electrocoagulation method for nitrate removal from water. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012073.	0.6	38
38	The treatment of printing and packaging wastewater by electrocoagulation-flotation: the simultaneous efficacy of critical parameters and economics. , 0, 205, 161-174.		36
39	Sustainability assessment of wastewater treatment techniques in urban areas of Iraq using multi-criteria decision analysis (MCDA). Water Practice and Technology, 2021, 16, 648-660.	2.0	34
40	An Investigation Into The Level Of Heavy Metals Leaching From Canal-Dreged Sediment: A Case Study Metals Leaching From Dreged Sediment. IOP Conference Series: Materials Science and Engineering, 0, 454, 012022.	0.6	33
41	Electrocoagulation as an Eco-Friendly River Water Treatment Method. Lecture Notes in Civil Engineering, 2020, , 219-235.	0.4	32
42	Electrochemical removal of brilliant green dye from wastewater. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012036.	0.6	32
43	Online Monitoring of a Sequencing Batch Reactor Treating Domestic Wastewater. Procedia Engineering, 2017, 196, 800-807.	1.2	29
44	Statistical modeling of monthly streamflow using time series and artificial neural network models: Hindiya Barrage as a case study. Water Practice and Technology, 2021, 16, 681-691.	2.0	29
45	A Novel Gesomin Detection Method Based on Microwave Spectroscopy. , 2019, , .		28
46	Investigating municipal solid waste management system performance during the Arbaâ€™een event in the city of Kerbala, Iraq. Environment, Development and Sustainability, 2020, 22, 1431-1454.	5.0	27
47	Facing Up to Waste: How Can Hotel Managers in Kerbala, Iraq, Help the City Deal with its Waste Problem?. Procedia Engineering, 2017, 196, 771-778.	1.2	26
48	Zeolite-assisted electrocoagulation for remediation of phosphate from calcium-phosphate solution. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012031.	0.6	25
49	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
50	Applications of Computational and Statistical Models for Optimizing the Electrochemical Removal of Cephalixin Antibiotic from Water. Water (Switzerland), 2022, 14, 344.	2.7	25
51	Drought Forecasting: A Review and Assessment of the Hybrid Techniques and Data Pre-Processing. Hydrology, 2022, 9, 115.	3.0	25
52	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
53	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
54	Cost-effective hybrid filter for remediation of water from fluoride. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012038.	0.6	22

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55	Using LARS â€“WG model for prediction of temperature in Columbia City, USA. IOP Conference Series: Materials Science and Engineering, 2019, 584, 012026.	0.6	20
56	A Non-Destructive Electromagnetic Sensing Technique to Determine Chloride Level in Maritime Concrete. Karbala International Journal of Modern Science, 2021, 7, .	1.0	20
57	Removal of organic matter from water using ultrasonic-assisted electrocoagulation method. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012033.	0.6	19
58	Decolourization of dye solutions by electrocoagulation: an investigation of the effect of operational parameters. IOP Conference Series: Materials Science and Engineering, 0, 584, 012024.	0.6	18
59	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
60	An Implementation of a Multi-Hop Underwater Wireless Sensor Network using Bowtie Antenna. Karbala International Journal of Modern Science, 2021, 7, .	1.0	18
61	Removal of iron from wastewater using a hybrid filter. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012035.	0.6	17
62	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
63	Investigating the influence of cement replacement by high volume of GGBS and PFA on the mechanical performance of cement mortar. IOP Conference Series: Materials Science and Engineering, 2019, 584, 012022.	0.6	15
64	Polycyclic aromatic hydrocarbons (PAHs) in urban street dust within three land-uses of Babylon governorate, Iraq: Distribution, sources, and health risk assessment. Journal of King Saud University, Engineering Sciences, 2022, 34, 231-239.	2.0	15
65	A novel methodology to predict monthly municipal water demand based on weather variables scenario. Journal of King Saud University, Engineering Sciences, 2022, 34, 163-169.	2.0	14
66	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
67	The Effects of Different Shaped Baffle Blocks on the Energy Dissipation. Civil Engineering Journal (Iran), 2020, 6, 961-973.	3.9	12
68	Personal exposure and inhalation doses to PM1 and PM2.5 pollution in Iraq: An examination of four transport modes. Building and Environment, 2022, 212, 108847.	6.9	12
69	A Review of Hybrid Soft Computing and Data Pre-Processing Techniques to Forecast Freshwater Qualityâ€™s Parameters: Current Trends and Future Directions. Environments - MDPI, 2022, 9, 85.	3.3	12
70	Electrochemical removal of nitrate from wastewater. IOP Conference Series: Materials Science and Engineering, 2020, 888, 012037.	0.6	11
71	Preliminary Studies of Methylene Blue Remotion from Aqueous Solutions by Ocimum basilicum. Environments - MDPI, 2022, 9, 17.	3.3	11
72	Development of Eco-Friendly Concrete Mix Using Recycled Aggregates: Structural Performance and Pore Feature Study Using Image Analysis. Materials, 2022, 15, 2953.	2.9	11

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73	Enhancing the fuel properties of beverage wastes as non-edible feedstock for biofuel production. <i>Biofuels</i> , 0, , 1-8.	2.4	10
74	Sustainable and Environmental Friendly Ancient Reed Houses (Inspired by the Past to Motivate the) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>		
75	The Development of a New Low Carbon Binder for Construction as an Alternative to Cement. <i>Lecture Notes in Civil Engineering</i> , 2020, , 205-213.	0.4	8
76	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> , 2021, 1090, 012043.	0.6	7
77	Ultrasonic-electrochemical treatment for effluents of concrete plants. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 888, 012063.	0.6	6
78	RSM (Response Surface Methodology) Modelling of Inter-Electrodes Spacing Effects on Phosphate Removal. , 2021, , .		6
79	How can sensors be used for sustainability improvement?. , 2021, , 321-344.		5
80	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
81	Benchmarking of the Current Solid Waste Management System in Karbala, Iraq, Using Wasteaware Benchmark Indicators. , 2018, , .		4
82	Prediction and Forecasting of Maximum Weather Temperature Using a Linear Autoregressive Model. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 877, 012031.	0.3	4
83	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
84	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> , 2021, 790, 012048.	0.3	3
85	Development of Risk Optimisation Model for Oil and Gas Transportation Pipeline Routes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 584, 012025.	0.6	2
86	Production of Ternary Blend Binder as an Alternative to Portland Cement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1090, 012069.	0.6	2
87	Influence of High Volume RHA on Properties of Cement Mortar. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1090, 012028.	0.6	2
88	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
89	Evaluation of the Use of Lignocellulosic Biomass in Thermal Insulation for Green Building. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1058, 012023.	0.6	1
90	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> , 2021, 1090, 012015.	0.6	1

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91	Early age assessment of cement mortar incorporated high volume fly ash. IOP Conference Series: Materials Science and Engineering, 2021, 1090, 012019.	0.6	1
92	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
93	Updated Moving Forecasting Model of Air Maximum Temperature. IOP Conference Series: Earth and Environmental Science, 2021, 877, 012032.	0.3	1
94	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
95	Photocatalysis and flocculation processes for recycling aquaculture effluent into nutrient-rich irrigation water. Water Science and Technology: Water Supply, 2022, 22, 3103-3113.	2.1	1
96	Real-Time Detection of Plastic Shards in Cheese Using Microwave-Sensing Technique. Proceedings (mdpi), 2019, 42, .	0.2	0
97	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
98	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
99	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