

S M Zakir Hossain

List of Publications by Year in descending order

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46
papers

1,938
citations

393982

19
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253896

43
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47
all docs

47
docs citations

47
times ranked

2187
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid support vector regression and crow search algorithm for modeling and multiobjective optimization of microalgae-based wastewater treatment. <i>Journal of Environmental Management</i> , 2022, 301, 113783.	3.8	12
2	Prediction of biodiesel production from microalgal oil using Bayesian optimization algorithm-based machine learning approaches. <i>Fuel</i> , 2022, 309, 122184.	3.4	44
3	Fabrication of novel microreactors in-house and their performance analysis via continuous production of biodiesel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 172, 108792.	1.8	11
4	Soft-computing modeling and multiresponse optimization for nutrient removal process from municipal wastewater using microalgae. <i>Journal of Water Process Engineering</i> , 2022, 45, 102490.	2.6	21
5	Modeling and multi-objective optimization of microalgae biomass production and CO ₂ biofixation using hybrid intelligence approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112016.	8.2	22
6	Hybrid intelligence modeling for estimating shear strength of FRP reinforced concrete members. <i>Neural Computing and Applications</i> , 2022, 34, 7069-7079.	3.2	4
7	A comprehensive review on conventional and biological-driven heavy metals removal from industrial wastewater. <i>Environmental Advances</i> , 2022, 7, 100168.	2.2	120
8	Artificial intelligence-based super learner approach for prediction and optimization of biodiesel synthesis—A case of waste utilization. <i>International Journal of Energy Research</i> , 2022, 46, 20519-20534.	2.2	4
9	Bayesian Optimization Algorithm-Based Statistical and Machine Learning Approaches for Forecasting Short-Term Electricity Demand. <i>Energies</i> , 2022, 15, 3425.	1.6	16
10	Impact of Soil Characteristics and Moisture Content on the Corrosion of Underground Steel Pipelines. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6177-6188.	1.7	9
11	Optimization of microalgal biomass and lipid productivities for bioenergy production using central composite design with desirability function. <i>International Journal of Energy Research</i> , 2021, 45, 17342-17357.	2.2	4
12	A Hybrid Microfluidic Differential Carbonator Approach for Enhancing Microalgae Growth: Inline Monitoring Through Optical Imaging. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6765-6774.	1.7	2
13	Bayesian optimization algorithm based support vector regression analysis for estimation of shear capacity of FRP reinforced concrete members. <i>Applied Soft Computing Journal</i> , 2021, 105, 107281.	4.1	53
14	Fabrication of a hybrid shell and double pipe heat exchanger by means of design and performance assessment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 165, 108430.	1.8	4
15	Soft computing modeling and multiresponse optimization for production of microalgal biomass and lipid as bioenergy feedstock. <i>Renewable Energy</i> , 2021, 178, 1020-1033.	4.3	5
16	Application of Artificial Intelligence (AI) for Sustainable Highway and Road System. <i>Symmetry</i> , 2021, 13, 60.	1.1	9
17	Effects of Cinnamaldehyde as an Eco-Friendly Corrosion Inhibitor on Mild Steel in Aerated NaCl Solutions. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 229-239.	1.7	13
18	Experimental study and parameters optimization of microalgae based heavy metals removal process using a hybrid response surface methodology-crow search algorithm. <i>Scientific Reports</i> , 2020, 10, 15068.	1.6	55

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19	Modeling and optimization of non-edible papaya seed waste oil synthesis using data mining approaches. South African Journal of Chemical Engineering, 2020, 33, 151-159.	1.2	10
20	Soft computing approaches for comparative prediction of the mechanical properties of jute fiber reinforced concrete. Advances in Engineering Software, 2020, 149, 102887.	1.8	48
21	Optimization of CO ₂ biofixation rate by microalgae in a hybrid microfluidic differential carbonator using response surface methodology and desirability function. Journal of CO ₂ Utilization, 2020, 42, 101291.	3.3	6
22	Comparative Study of Green and Synthetic Polymers for Enhanced Oil Recovery. Polymers, 2020, 12, 2429.	2.0	33
23	Design and performance assessment of an in-house fabricated microreactor for enzyme-catalysed biodiesel synthesis. Arab Journal of Basic and Applied Sciences, 2020, 27, 239-247.	1.0	10
24	Recent Advances in Enzymatic Conversion of Microalgal Lipids into Biodiesel. Energy & Fuels, 2020, 34, 6735-6750.	2.5	28
25	Modeling and Optimization of Aqueous Mineral Carbonation for Cement Kiln Dust Using Response Surface Methodology Integrated with Box-Behnken and Central Composite Design Approaches. Mining, Metallurgy and Exploration, 2020, 37, 1367-1383.	0.4	8
26	An experimental investigation and modeling approach of response surface methodology coupled with crow search algorithm for optimizing the properties of jute fiber reinforced concrete. Construction and Building Materials, 2020, 243, 118216.	3.2	57
27	The role of carbon nanotubes (CNTs) and carbon particles in green enhanced oil recovery (GEOR) for Arabian crude oil in sandstone core. APPEA Journal, 2020, 60, 133.	0.4	8
28	Mathematical Modeling of Temperature Effect on Algal Growth for Biodiesel Application. Innovative Renewable Energy, 2020, , 517-528.	0.2	2
29	Biochemical Conversion of Microalgae Biomass into Biofuel. Chemical Engineering and Technology, 2019, 42, 2594-2607.	0.9	54
30	Mathematical modeling of temperature effect on algal growth for biodiesel application. Renewable Energy and Environmental Sustainability, 2019, 4, 8.	0.7	2
31	Cinnamaldehyde as a Green Inhibitor in Mitigating AISI 1015 Carbon Steel Corrosion in HCl. Arabian Journal for Science and Engineering, 2019, 44, 5489-5499.	1.7	13
32	Biosensors for on-line water quality monitoring – a review. Arab Journal of Basic and Applied Sciences, 2019, 26, 502-518.	1.0	21
33	Multiobjective optimization of microalgae (<i>Chlorella sp.</i>) growth in a photobioreactor using Box-Behnken design approach. Canadian Journal of Chemical Engineering, 2018, 96, 1903-1910.	0.9	22
34	Design of a laboratory experiment for the performance analysis of a retrofitted tray dryer unit. Education for Chemical Engineers, 2017, 18, 35-44.	2.8	4
35	Optimization of Biodiesel Production from Spent Palm Cooking Oil Using Fractional Factorial Design Combined with the Response Surface Methodology. American Journal of Applied Sciences, 2016, 13, 1255-1263.	0.1	21
36	Enzyme-luminescence method: Tool for real-time monitoring of natural neurotoxins in vitro and l-glutamate release from primary cortical neurons. Biotechnology Reports (Amsterdam, Netherlands), 2016, 9, 57-65.	2.1	2

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37	Automated SPME-GC-MS monitoring of headspace metabolomic responses of E. coli to biologically active components extracted by the coating. <i>Analytica Chimica Acta</i> , 2013, 776, 41-49.	2.6	29
38	Creating fast flow channels in paper fluidic devices to control timing of sequential reactions. <i>Lab on A Chip</i> , 2012, 12, 5079.	3.1	118
39	Multiplexed paper test strip for quantitative bacterial detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1567-1576.	1.9	194
40	Î2-Galactosidase-Based Colorimetric Paper Sensor for Determination of Heavy Metals. <i>Analytical Chemistry</i> , 2011, 83, 8772-8778.	3.2	272
41	Reagentless Bidirectional Lateral Flow Bioactive Paper Sensors for Detection of Pesticides in Beverage and Food Samples. <i>Analytical Chemistry</i> , 2009, 81, 9055-9064.	3.2	285
42	Development of a Bioactive Paper Sensor for Detection of Neurotoxins Using Piezoelectric Inkjet Printing of Solâ-Gel-Derived Bioinks. <i>Analytical Chemistry</i> , 2009, 81, 5474-5483.	3.2	247
43	A convenient, high-throughput method for enzyme-luminescence detection of dopamine released from PC12 cells. <i>Nature Protocols</i> , 2008, 3, 1639-1644.	5.5	18
44	Drug Assessment Based on Detection of l-Glutamate Released from C6 Glioma Cells Using an Enzymeâ-Luminescence Method. <i>Analytical Chemistry</i> , 2008, 80, 3762-3768.	3.2	3
45	Real-time detection of L-glutamate released from C6 glioma cells using a modified enzyme-luminescence method. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1961-1966.	1.9	15
46	Modeling and global optimization of biodiesel synthesis using hybrid response surface methodologyâ-crow search algorithm: Case study of papaya seed waste oil utilization. <i>Environmental Progress and Sustainable Energy</i> , 0, , e13689.	1.3	0