

S M Zakir Hossain

List of Publications by Year in descending order

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46
papers

1,938
citations

393982

19
h-index

253896

43
g-index

47
all docs

47
docs citations

47
times ranked

2187
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	β-Galactosidase-Based Colorimetric Paper Sensor for Determination of Heavy Metals. <i>Analytical Chemistry</i> , 2011, 83, 8772-8778.	3.2	272
3	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
4	Multiplexed paper test strip for quantitative bacterial detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1567-1576.	1.9	194
5	A comprehensive review on conventional and biological-driven heavy metals removal from industrial wastewater. <i>Environmental Advances</i> , 2022, 7, 100168.	2.2	120
6	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
7	An experimental investigation and modeling approach of response surface methodology coupled with crow search algorithm for optimizing the properties of jute fiber reinforced concrete. <i>Construction and Building Materials</i> , 2020, 243, 118216.	3.2	57
8	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
9	Biochemical Conversion of Microalgae Biomass into Biofuel. <i>Chemical Engineering and Technology</i> , 2019, 42, 2594-2607.	0.9	54
10	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
11	Soft computing approaches for comparative prediction of the mechanical properties of jute fiber reinforced concrete. <i>Advances in Engineering Software</i> , 2020, 149, 102887.	1.8	48
12	Prediction of biodiesel production from microalgal oil using Bayesian optimization algorithm-based machine learning approaches. <i>Fuel</i> , 2022, 309, 122184.	3.4	44
13	Comparative Study of Green and Synthetic Polymers for Enhanced Oil Recovery. <i>Polymers</i> , 2020, 12, 2429.	2.0	33
14	Automated SPMEâ€GCâ€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
15	Recent Advances in Enzymatic Conversion of Microalgal Lipids into Biodiesel. <i>Energy & Fuels</i> , 2020, 34, 6735-6750.	2.5	28
16	Multiobjective optimization of microalgae (<i>Chlorella sp.</i>) growth in a photobioreactor using Boxâ€Behnken design approach. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1903-1910.	0.9	22
17	Modeling and multi-objective optimization of microalgae biomass production and CO2 biofixation using hybrid intelligence approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112016.	8.2	22
18	Optimization of Biodiesel Production from Spent Palm Cooking Oil Using Fractional Factorial Design Combined with the Response Surface Methodology. <i>American Journal of Applied Sciences</i> , 2016, 13, 1255-1263.	0.1	21

#	ARTICLE	IF	CITATIONS
19	Biosensors for on-line water quality monitoring – a review. Arab Journal of Basic and Applied Sciences, 2019, 26, 502-518.	1.0	21
20	Soft-computing modeling and multiresponse optimization for nutrient removal process from municipal wastewater using microalgae. Journal of Water Process Engineering, 2022, 45, 102490.	2.6	21
21	A convenient, high-throughput method for enzyme-luminescence detection of dopamine released from PC12 cells. Nature Protocols, 2008, 3, 1639-1644.	5.5	18
22	Bayesian Optimization Algorithm-Based Statistical and Machine Learning Approaches for Forecasting Short-Term Electricity Demand. Energies, 2022, 15, 3425.	1.6	16
23	Real-time detection of L-glutamate released from C6 glioma cells using a modified enzyme-luminescence method. Analytical and Bioanalytical Chemistry, 2007, 389, 1961-1966.	1.9	15
24	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
25	Effects of Cinnamaldehyde as an Eco-Friendly Corrosion Inhibitor on Mild Steel in Aerated NaCl Solutions. Arabian Journal for Science and Engineering, 2020, 45, 229-239.	1.7	13
26	Hybrid support vector regression and crow search algorithm for modeling and multiobjective optimization of microalgae-based wastewater treatment. Journal of Environmental Management, 2022, 301, 113783.	3.8	12
27	Fabrication of novel microreactors in-house and their performance analysis via continuous production of biodiesel. Chemical Engineering and Processing: Process Intensification, 2022, 172, 108792.	1.8	11
28	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
29	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
30	Impact of Soil Characteristics and Moisture Content on the Corrosion of Underground Steel Pipelines. Arabian Journal for Science and Engineering, 2021, 46, 6177-6188.	1.7	9
31	Application of Artificial Intelligence (AI) for Sustainable Highway and Road System. Symmetry, 2021, 13, 60.	1.1	9
32	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
33	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
34	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
35	Soft computing modeling and multiresponse optimization for production of microalgal biomass and lipid as bioenergy feedstock. Renewable Energy, 2021, 178, 1020-1033.	4.3	5
36	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

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37	Optimization of microalgal biomass and lipid productivities for bioenergy production using central composite design with desirability function. International Journal of Energy Research, 2021, 45, 17342-17357.	2.2	4
38	Fabrication of a hybrid shell and double pipe heat exchanger by means of design and performance assessment. Chemical Engineering and Processing: Process Intensification, 2021, 165, 108430.	1.8	4
39	Hybrid intelligence modeling for estimating shear strength of FRP reinforced concrete members. Neural Computing and Applications, 2022, 34, 7069-7079.	3.2	4
40	Artificial intelligence-based super learner approach for prediction and optimization of biodiesel synthesis—A case of waste utilization. International Journal of Energy Research, 2022, 46, 20519-20534.	2.2	4
41	Drug Assessment Based on Detection of l-Glutamate Released from C6 Glioma Cells Using an Enzyme-linked Luminescence Method. Analytical Chemistry, 2008, 80, 3762-3768.	3.2	3
42	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
43	Mathematical modeling of temperature effect on algal growth for biodiesel application. Renewable Energy and Environmental Sustainability, 2019, 4, 8.	0.7	2
44	A Hybrid Microfluidic Differential Carbonator Approach for Enhancing Microalgae Growth: Inline Monitoring Through Optical Imaging. Arabian Journal for Science and Engineering, 2021, 46, 6765-6774.	1.7	2
45	Mathematical Modeling of Temperature Effect on Algal Growth for Biodiesel Application. Innovative Renewable Energy, 2020, , 517-528.	0.2	2
46	Modeling and global optimization of biodiesel synthesis using hybrid response surface methodology—crow search algorithm: Case study of papaya seed waste oil utilization. Environmental Progress and Sustainable Energy, 0, , e13689.	1.3	0