

Shams Forruque Ahmed

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,639
citations

218381

26
h-index

197535

49
g-index

59
all docs

59
docs citations

59
times ranked

1576
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of COVID-19 on the social, economic, environmental and energy domains: Lessons learnt from a global pandemic. <i>Sustainable Production and Consumption</i> , 2021, 26, 343-359.	5.7	370
2	Recent developments in physical, biological, chemical, and hybrid treatment techniques for removing emerging contaminants from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 416, 125912.	6.5	300
3	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. <i>Fuel</i> , 2022, 307, 121782.	3.4	190
4	Progress and challenges of contaminate removal from wastewater using microalgae biomass. <i>Chemosphere</i> , 2022, 286, 131656.	4.2	147
5	Green approaches in synthesising nanomaterials for environmental nanobioremediation: Technological advancements, applications, benefits and challenges. <i>Environmental Research</i> , 2022, 204, 111967.	3.7	132
6	Insight into the recent advances of microwave pretreatment technologies for the conversion of lignocellulosic biomass into sustainable biofuel. <i>Chemosphere</i> , 2021, 281, 130878.	4.2	129
7	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. <i>Environmental Technology and Innovation</i> , 2022, 25, 102114.	3.0	93
8	Biohydrogen Production From Biomass Sources: Metabolic Pathways and Economic Analysis. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	90
9	Source, distribution and emerging threat of micro- and nanoplastics to marine organism and human health: Socio-economic impact and management strategies. <i>Environmental Research</i> , 2021, 195, 110857.	3.7	79
10	Biogas upgrading, economy and utilization: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4137-4164.	8.3	71
11	Sustainable hydrogen production: Technological advancements and economic analysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37227-37255.	3.8	70
12	Parametric study on thermal performance of horizontal earth pipe cooling system in summer. <i>Energy Conversion and Management</i> , 2016, 114, 324-337.	4.4	67
13	Prospects of Bioenergy Production From Organic Waste Using Anaerobic Digestion Technology: A Mini Review. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	64
14	Strategies to Produce Cost-Effective Third-Generation Biofuel From Microalgae. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	61
15	Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105204.	3.3	45
16	Strategies to improve membrane performance in wastewater treatment. <i>Chemosphere</i> , 2022, 306, 135527.	4.2	45
17	Techniques to improve the stability of biodiesel: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2209-2236.	8.3	43
18	Energy Scenario: Production, Consumption and Prospect of Renewable Energy in Australia. <i>Journal of Power and Energy Engineering</i> , 2014, 02, 19-25.	0.3	43

#	ARTICLE	IF	CITATIONS
19	Integration of phase change materials in improving the performance of heating, cooling, and clean energy storage systems: An overview. <i>Journal of Cleaner Production</i> , 2022, 364, 132639.	4.6	38
20	Nanomaterials as a sustainable choice for treating wastewater. <i>Environmental Research</i> , 2022, 214, 113807.	3.7	38
21	Physical and hybrid modelling techniques for earth-air heat exchangers in reducing building energy consumption: Performance, applications, progress, and challenges. <i>Solar Energy</i> , 2021, 216, 274-294.	2.9	37
22	A critical review on the development and challenges of concentrated solar power technologies. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101434.	1.7	34
23	Pathways of lignocellulosic biomass deconstruction for biofuel and value-added products production. <i>Fuel</i> , 2022, 318, 123618.	3.4	32
24	Biohydrogen production from wastewater-based microalgae: Progresses and challenges. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37321-37342.	3.8	31
25	Performance assessment of earth pipe cooling system for low energy buildings in a subtropical climate. <i>Energy Conversion and Management</i> , 2015, 106, 815-825.	4.4	30
26	Mathematical modelling of COVID-19 disease dynamics: Interaction between immune system and SARS-CoV-2 within host. <i>AIMS Mathematics</i> , 2022, 7, 2618-2633.	0.7	30
27	Geometrical and coil revolution effects on the performance enhancement of a helical heat exchanger using nanofluids. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102106.	2.8	28
28	Techno-Economical Evaluation of Bio-Oil Production via Biomass Fast Pyrolysis Process: A Review. <i>Frontiers in Energy Research</i> , 2022, 9, .	1.2	27
29	Insights into the development of microbial fuel cells for generating biohydrogen, bioelectricity, and treating wastewater. <i>Energy</i> , 2022, 254, 124163.	4.5	25
30	Optimization of Pyrolysis Parameters for Production of Biochar From Banana Peels: Evaluation of Biochar Application on the Growth of <i>Ipomoea aquatica</i> . <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	23
31	Dust ion acoustic multi-shock wave excitations in the weakly relativistic plasmas with nonthermal nonextensive electrons and positrons. <i>AIP Advances</i> , 2020, 10, .	0.6	19
32	Selection of suitable passive cooling strategy for a subtropical climate. <i>International Journal of Mechanical and Materials Engineering</i> , 2014, 9, .	1.1	18
33	A parametric analysis of the cooling performance of vertical earth-air heat exchanger in a subtropical climate. <i>Renewable Energy</i> , 2021, 172, 350-367.	4.3	18
34	Microalgae binary culture for higher biomass production, nutrients recycling, and efficient harvesting: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1153-1168.	8.3	18
35	Modeling the SARS-CoV-2 parallel transmission dynamics: Asymptomatic and symptomatic pathways. <i>Computers in Biology and Medicine</i> , 2022, 143, 105264.	3.9	17
36	Heat integration modeling of hydrogen production from date seeds via steam gasification. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30592-30605.	3.8	16

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37	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105657.	3.3	15
38	SARS-CoV-2 variants and environmental effects of lockdowns, masks and vaccination: a review. <i>Environmental Chemistry Letters</i> , 2021, , 1-12.	8.3	15
39	Advanced catalysts and effect of operating parameters in ethanol dry reforming for hydrogen generation. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1695-1718.	8.3	15
40	Comparison of Earth Pipe Cooling Performance Between two Different Piping Systems. <i>Energy Procedia</i> , 2014, 61, 1897-1901.	1.8	12
41	Thermal performance of building-integrated horizontal earth-air heat exchanger in a subtropical hot humid climate. <i>Geothermics</i> , 2022, 99, 102313.	1.5	11
42	Process Simulation and Optimization of Anaerobic Co-Digestion. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	9
43	Estimation of Sustainable Bioenergy Production from Olive Mill Solid Waste. <i>Energies</i> , 2021, 14, 7654.	1.6	9
44	Fiber Suspensions in Turbulent flow with Two-Point Correlation. <i>Bangladesh Journal of Scientific and Industrial Research</i> , 2011, 46, 265-270.	0.1	6
45	Conversion of energy equation for fiber suspensions in dusty fluid turbulent flow. <i>Results in Physics</i> , 2020, 19, 103341.	2.0	4
46	Numerical Modeling of Vertical Earth Pipe Cooling System for Hot and Humid Subtropical Climate. , 2015, , 277-299.		3
47	A Study on Energy and Environmental Management Techniques Used in Petroleum Process Industries. <i>Green Energy and Technology</i> , 2018, , 219-230.	0.4	3
48	Derivation of Turbulent Energy in Presence of Dust Particles. <i>American Journal of Applied Mathematics</i> , 2013, 1, 71.	0.2	3
49	Optimization of operating parameters for diesel engine fuelled with bio-oil derived from cottonseed pyrolysis. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102202.	1.7	3
50	Data-driven modelling techniques for earth-air heat exchangers to reduce energy consumption in buildings: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4191-4210.	8.3	2
51	Recovery of gas waste from the petroleum industry: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 263-281.	8.3	2
52	Inverse Family of Numerical Methods for Approximating All Simple and Roots with Multiplicity of Nonlinear Polynomial Equations with Engineering Applications. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-9.	0.6	2
53	Performance Evaluation of Hybrid Earth Pipe Cooling with Horizontal Piping System. , 2016, , 1-30.		1
54	Turbulent energy motion of fiber suspensions in a rotating frame. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3345-3352.	3.4	0

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55	Conversion of Energy Equation for Turbulent Motion and its Applications. Applied and Computational Mathematics, 2014, 3, 110.	0.2	0
56	Theoretical Model Development for Energy Motion of Dusty Turbulent Flow of Fibre Suspensions in a Rotational Frame. Complexity, 2022, 2022, 1-11.	0.9	0
57	Characteristic-Based Fluid Flow Modeling between Two Eccentric Cylinders in Laminar and Turbulent Regimes. Geofluids, 2022, 2022, 1-9.	0.3	0