

Muhammad Farooq

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

3,193
citations

201674

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114
docs citations

114
times ranked

2867
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Reanalysis and Analysis Datasets against Measured Wind Data for Wind Resource Assessment. <i>Energy and Environment</i> , 2023, 34, 1258-1284.	4.6	8
2	Mechanistic study on methyl orange and congo red adsorption onto polyvinyl pyrrolidone modified magnesium oxide. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 2515-2528.	3.5	10
3	Effect of various factors and diverse approaches to enhance the performance of solar stills: a comprehensive review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4491-4522.	3.6	42
4	Artificial intelligence based operational strategy development and implementation for vibration reduction of a supercritical steam turbine shaft bearing. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1864-1880.	6.4	20
5	Evaluation of physiochemical, thermal and kinetic properties of wheat straw by demineralising with leaching reagents for energy applications. <i>Energy</i> , 2022, 238, 122013.	8.8	8
6	Hydraulic characterization of Diesel, B50 and B100 using momentum flux. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4371-4388.	6.4	7
7	Flow boiling heat transfer characteristics of low global warming potential refrigerants in a vertical mini-channel. <i>Thermal Science</i> , 2022, 26, 63-76.	1.1	4
8	Contemporary thrust and emerging prospects of catalytic systems for substitute natural gas production by CO methanation. <i>Fuel</i> , 2022, 311, 122604.	6.4	11
9	The role of oxygen regulation and algal growth parameters in hydrogen production via biophotolysis. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107003.	6.7	30
10	Evaluating Evaporative Cooling Assisted Solid Desiccant Dehumidification System for Agricultural Storage Application. <i>Sustainability</i> , 2022, 14, 1479.	3.2	6
11	Substituted natural gas (SNG) production using an environment-friendly, metal-free modified beta zeolite (@BEA) catalyst with a dandelion flower-like structure. <i>Molecular Catalysis</i> , 2022, 523, 112140.	2.0	2
12	Effect of biodiesel-dimethyl carbonate blends on engine performance, combustion and emission characteristics. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 5111-5121.	6.4	20
13	Conceptualization of Bioreactor Landfill Approach for Sustainable Waste Management in Karachi, Pakistan. <i>Sustainability</i> , 2022, 14, 3364.	3.2	7
14	An overview of solid and liquid materials for adsorption-based atmospheric water harvesting. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322210827.	1.6	19
15	Potential Investigation of Membrane Energy Recovery Ventilators for the Management of Building Air-Conditioning Loads. <i>Energies</i> , 2022, 15, 2139.	3.1	4
16	Recent developments in adsorption heat pumps for heating applications. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322210894.	1.6	3
17	Adsorption-based atmospheric water harvesting: A review of adsorbents and systems. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105961.	5.6	47
18	Thermal performance enhancement of nanofluids based parabolic trough solar collector (NPTSC) for sustainable environment. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 8943-8953.	6.4	29

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19	Experimental investigation to thermal performance of different photo voltaic modules for efficient system design. AEJ - Alexandria Engineering Journal, 2022, 61, 12623-12634.	6.4	2
20	Numerical investigation of particles characteristics on cyclone performance for sustainable environment. Particulate Science and Technology, 2021, 39, 495-503.	2.1	6
21	Flame propagation and burning characteristics of pulverized biomass for sustainable biofuel. Biomass Conversion and Biorefinery, 2021, 11, 409-417.	4.6	9
22	Comparative study for removal of cationic dye from aqueous solutions by manganese oxide and manganese oxide composite. International Journal of Environmental Science and Technology, 2021, 18, 659-672.	3.5	17
23	Effect of alcoholic and nano-particles additives on tribological properties of dieselâ€“palmâ€“sesameâ€“biodiesel blends. Energy Reports, 2021, 7, 1162-1171.	5.1	45
24	Characterization of the viscosity of bio-oil produced by fast pyrolysis of the wheat straw. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 1853-1868.	2.3	13
25	Kinetic studies of graphene oxide towards the removal of rhodamine B and congo red. International Journal of Environmental Analytical Chemistry, 2021, 101, 1258-1272.	3.3	9
26	Thermoelectric waste heat recovery of an automotive internal combustion engine using (Na, K) co-doped polycrystalline tin selenide (SnSe). Thermal Science, 2021, 25, 407-419.	1.1	1
27	Exergoeconomic optimization of a binary geothermal power plant. , 2021, , 315-326.		3
28	Performance Investigation of a Solar Thermal Collector Based on Nanostructured Energy Materials. Frontiers in Materials, 2021, 7, .	2.4	4
29	Carbon Capture for Sustainable Environment in Developing Countries. Advanced Sciences and Technologies for Security Applications, 2021, , 525-544.	0.5	3
30	Energy and Environmental Security in Developing Countries. Advanced Sciences and Technologies for Security Applications, 2021, , .	0.5	14
31	A study into crack initiation and growth in peroxide-cured silica-filled polybutadiene rubber vulcanisate under a cyclic loading condition. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2021, 24, 69-75.	1.1	3
32	Dynamic Evaluation of Desiccant Dehumidification Evaporative Cooling Options for Greenhouse Air-Conditioning Application in Multan (Pakistan). Energies, 2021, 14, 1097.	3.1	17
33	Qualitative assessment and global mapping of supercritical CO2 power cycle technology. Sustainable Energy Technologies and Assessments, 2021, 43, 100978.	2.7	9
34	Construction of Operational Data-Driven Power Curve of a Generator by Industry 4.0 Data Analytics. Energies, 2021, 14, 1227.	3.1	18
35	Experiments on Energy-Efficient Evaporative Cooling Systems for Poultry Farm Application in Multan (Pakistan). Sustainability, 2021, 13, 2836.	3.2	19
36	Use of diesel and emulsified diesel in CI engine: A comparative analysis of engine characteristics. Science Progress, 2021, 104, 003685042110209.	1.9	11

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37	Direct Analytical Modeling for Optimal, On-Design Performance of Ejector for Simulating Heat-Driven Systems. <i>Energies</i> , 2021, 14, 2819.	3.1	4
38	Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315Âcc diesel engine. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19633-19644.	7.1	15
39	Collective effect of ternary nano fuel blends on the diesel engine performance and emissions characteristics. <i>Fuel</i> , 2021, 293, 120420.	6.4	65
40	Correcting solar radiation from reanalysis and analysis datasets with systematic and seasonal variations. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100933.	5.7	17
41	Biogas Production Potential from Livestock Manure in Pakistan. <i>Sustainability</i> , 2021, 13, 6751.	3.2	29
42	A comparative assessment of solid fuel pellets production from torrefied agro-residues and their blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105125.	5.5	18
43	Experimental Analysis of Engine Performance and Exhaust Pollutant on a Single-Cylinder Diesel Engine Operated Using Moringa Oleifera Biodiesel. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7071.	2.5	47
44	Biomass waste utilization for adsorbent preparation in CO2 capture and sustainable environment applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101288.	2.7	14
45	Investigation of particles deposition in a square duct using optimized roughness elements for a sustainable environment. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110490.	1.6	0
46	Recent innovations for scaling up microbial fuel cell systems: Significance of physicochemical factors for electrodes and membranes materials. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 129, 207-226.	5.3	39
47	Potential of Utilization of Renewable Energy Technologies in Gulf Countries. <i>Sustainability</i> , 2021, 13, 10261.	3.2	18
48	Thermal Analysis and Energy Efficiency Improvements in Tunnel Kiln for Sustainable Environment. <i>Processes</i> , 2021, 9, 1629.	2.8	6
49	Improving the accuracy of solar radiation estimation from reanalysis datasets using surface measurements. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101485.	2.7	4
50	Effect of palm-sesame biodiesel fuels with alcoholic and nanoparticle additives on tribological characteristics of lubricating oil by four ball tribo-tester. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 4537-4546.	6.4	39
51	Estimation of daily diffuse solar radiation from clearness index, sunshine duration and meteorological parameters for different climatic conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101544.	2.7	6
52	Effect of primary and secondary alcohols as oxygenated additives on the performance and emission characteristics of diesel engine. <i>Energy Reports</i> , 2021, 7, 1116-1124.	5.1	40
53	Evolution of kinetic and hydrothermal study of refused derived fuels: Thermo-gravimetric analysis. <i>Energy Reports</i> , 2021, 7, 1757-1764.	5.1	7
54	A review of recent advances in adsorption desalination technologies. <i>International Communications in Heat and Mass Transfer</i> , 2021, 128, 105594.	5.6	30

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55	Application of Agricultural Waste as Heterogeneous Catalysts for Biodiesel Production. Catalysts, 2021, 11, 1215.	3.5	21
56	A Review of Elemental Mass Origin and Fundamental Forces Unification for Nuclear and Aerospace Industries. , 2021, 1, .		3
57	Role of Experimental Damage Mechanics for the Circular Economy Implementation in Cotton Industries. , 2021, 1, .		6
58	CO2 capture through electro-conductive adsorbent using physical adsorption system for sustainable development. Environmental Geochemistry and Health, 2020, 42, 1507-1515.	3.4	15
59	Allelopathic Crop Water Extracts Application Improves the Wheat Productivity Under Low and High Fertilizer Inputs in a Semi-Arid Environment. International Journal of Plant Production, 2020, 14, 23-35.	2.2	7
60	Modification of acidic and textural properties of a sulphated zirconia catalyst for efficient conversion of high-density polyethylene into liquid fuel. Environmental Science and Pollution Research, 2020, 27, 55-65.	5.3	10
61	Long-term winter wheat cropping influenced soil organic carbon pools in different aggregate fractions of Chernozem soil. Archives of Agronomy and Soil Science, 2020, 66, 2055-2066.	2.6	7
62	A study of changes in temperature profile of porous fin model using cuckoo search algorithm. AEJ - Alexandria Engineering Journal, 2020, 59, 11-24.	6.4	74
63	Untapped renewable energy potential of crop residues in Pakistan: Challenges and future directions. Journal of Environmental Management, 2020, 256, 109924.	7.8	54
64	Maximising Yield and Engine Efficiency Using Optimised Waste Cooking Oil Biodiesel. Energies, 2020, 13, 5941.	3.1	19
65	Exergoeconomic and Environmental Modeling of Integrated Polygeneration Power Plant with Biomass-Based Syngas Supplemental Firing. Energies, 2020, 13, 6018.	3.1	18
66	Modeling Viscosity and Density of Ethanol-Diesel-Biodiesel Ternary Blends for Sustainable Environment. Sustainability, 2020, 12, 5186.	3.2	81
67	Effect of Additivized Biodiesel Blends on Diesel Engine Performance, Emission, Tribological Characteristics, and Lubricant Tribology. Energies, 2020, 13, 3375.	3.1	64
68	Noise-Resilient Blind Deconvolution using Error-Correcting Codes. , 2020, , .		0
69	Performance and emission analysis of high purity biodiesel blends in diesel engine. Advances in Mechanical Engineering, 2020, 12, 168781402097415.	1.6	6
70	Performance Evaluation of a Direct Absorption Collector for Solar Thermal Energy Conversion. Energies, 2020, 13, 4956.	3.1	24
71	Energy Analysis of a Novel Ejector-Compressor Cooling Cycle Driven by Electricity and Heat (Waste) Tj ETQq1 1 0.784314 rgBT /Overl	3.2	11
72	Neural networks assisted computational aero-acoustic analysis of an isolated tire. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 2561-2577.	1.9	8

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73	Ultrasound-assisted process optimization and tribological characteristics of biodiesel from palm-sesame oil via response surface methodology and extreme learning machine - Cuckoo search. <i>Renewable Energy</i> , 2020, 158, 202-214.	8.9	93
74	Nanotechnology in agriculture: Current status, challenges and future opportunities. <i>Science of the Total Environment</i> , 2020, 721, 137778.	8.0	503
75	Impact of Varying Load Conditions and Cooling Energy Comparison of a Double-Inlet Pulse Tube Refrigerator. <i>Processes</i> , 2020, 8, 352.	2.8	4
76	Thermodynamic Performance Analysis of Hydrofluoroolefins (HFO) Refrigerants in Commercial Air-Conditioning Systems for Sustainable Environment. <i>Processes</i> , 2020, 8, 187.	2.8	9
77	Evaluating the combination of <i>Metarhizium anisopliae</i> and an enhanced form of diatomaceous earth (Grain-Guard) for the environmentally friendly control of stored grain pests. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 210.	2.7	7
78	Effect of Nano-Graphene Oxide and n-Butanol Fuel Additives Blended with Diesel in <i>Nigella sativa</i> Biodiesel Fuel Emulsion on Diesel Engine Characteristics. <i>Symmetry</i> , 2020, 12, 961.	2.2	109
79	Effect of defocused plane on entrance and exit hole geometry of high grade steel 18CrNi8 during percussion drilling by Nd:YAG millisecond laser system. <i>Materials Research Express</i> , 2020, 7, 016556.	1.6	3
80	Brassinosteroid seed priming with nitrogen supplementation improves salt tolerance in soybean. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 501-511.	3.1	77
81	Sublethal effects of a juvenile hormone analog, Pyriproxyfen on demographic parameters of non-target predator, <i>Hippodamia convergens</i> Guerin-Meneville (Coleoptera: Coccinellidae). <i>Ecotoxicology</i> , 2020, 29, 1017-1028.	2.4	13
82	Use of Gasoline, LPG and LPG-HHO Blend in SI Engine: A Comparative Performance for Emission Control and Sustainable Environment. <i>Processes</i> , 2020, 8, 74.	2.8	33
83	Using sorghum to suppress weeds in autumn planted maize. <i>Crop Protection</i> , 2020, 133, 105162.	2.1	14
84	Artificial Intelligence-Based Emission Reduction Strategy for Limestone Forced Oxidation Flue Gas Desulfurization System. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	21
85	Energy Analysis of a New Combined Cooling and Power System for Low-Temperature Heat Utilization. , 2020, , .		2
86	Evaluation of grain yield in fifty-eight spring bread wheat genotypes grown under heat stress. <i>Pakistan Journal of Botany</i> , 2020, 52, .	0.5	11
87	Phosphonium-based hydrophobic ionic liquids with fluorine anions for biodiesel production from waste cooking oil. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 1269-1276.	3.5	15
88	Fish-Pak: Fish species dataset from Pakistan for visual features based classification. <i>Data in Brief</i> , 2019, 27, 104565.	1.0	23
89	Squeezing flow of convectively heated fluid in porous medium with binary chemical reaction and activation energy. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401988377.	1.6	13
90	Seed priming in field crops: potential benefits, adoption and challenges. <i>Crop and Pasture Science</i> , 2019, 70, 731.	1.5	141

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91	Lead toxicity in plants: Impacts and remediation. Journal of Environmental Management, 2019, 250, 109557.	7.8	255
92	A green route for biodiesel production from waste cooking oil over base heterogeneous catalyst. International Journal of Energy Research, 2019, 43, 5438-5446.	4.5	23
93	Validation of Sensor-Based Food Intake Detection by Multicamera Video Observation in an Unconstrained Environment. Nutrients, 2019, 11, 609.	4.1	37
94	Insight of thermally stratified Jeffrey fluid flow inside porous medium subject to chemical species and melting heat transfer. Advances in Mechanical Engineering, 2019, 11, 168781401987618.	1.6	3
95	Influence of Heavy Metals on Seed Germination and Seedling Growth of Wheat, Pea, and Tomato. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	65
96	Ignition sensitivity of different compositional wood pellets and particle size dependence. Journal of Environmental Management, 2019, 232, 789-795.	7.8	19
97	Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. Chemosphere, 2018, 199, 468-476.	8.2	63
98	In-situ regeneration of activated carbon with electric potential swing desorption (EPSD) for the H ₂ S removal from biogas. Bioresource Technology, 2018, 249, 125-131.	9.6	26
99	Experimentally tested performance and emissions advantages of using natural-gas and hydrogen fuel mixture with diesel and rapeseed methyl ester as pilot fuels. Applied Energy, 2018, 229, 1260-1268.	10.1	29
100	Mapping past, current and future energy research trend in Pakistan: a scientometric assessment. Scientometrics, 2018, 117, 1733-1753.	3.0	18
101	Bio-methane from an-aerobic digestion using activated carbon adsorption. Anaerobe, 2017, 46, 33-40.	2.1	21
102	Sulphated zirconia catalysed conversion of high density polyethylene to value-added products using a fixed-bed reactor. Journal of Analytical and Applied Pyrolysis, 2017, 125, 296-303.	5.5	9
103	Comparative sorption studies of chromate by nano-and-micro sized Fe ₂ O ₃ particles. Open Chemistry, 2017, 15, 147-155.	1.9	1
104	Thermal and hydraulic optimization of plate heat exchanger using multi objective genetic algorithm. Case Studies in Thermal Engineering, 2017, 10, 570-578.	5.7	47
105	Enhanced CO ₂ Absorption and Desorption by Monoethanolamine (MEA)-Based Nanoparticle Suspensions. Industrial & Engineering Chemistry Research, 2016, 55, 7830-7838.	3.7	123
106	Optimization and Characterization of Adhesion Properties of DLC Coatings on Different Substrates. Materials Today: Proceedings, 2015, 2, 5308-5312.	1.8	13
107	Micro Structural Study of Plasma-sprayed Zirconia-CaO Thermal Barrier Coatings. Materials Today: Proceedings, 2015, 2, 5318-5323.	1.8	3
108	Thermodynamic studies of adsorption of rhodamine B and Congo red on graphene oxide. , 0, 164, 228-239.		24

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109	Recovery of Valuable Chemicals from High Density Polyethylene (HDPE) Polymer: a Catalytic Approach for Plastic Waste Recycling. International Journal of Environmental Science and Development, 0, , 263-267.	0.6	8
110	A novel analysis of n-butanol-gasoline blends impact on spark ignition engine characteristics and lubricant oil degradation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-15.	2.3	6
111	Tungsten carbide material tribology and circular economy relationship in polymer and composites industries. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072210969.	1.1	1
112	Experimental Validation of a Numerical Model to Predict the Performance of Solar PV Cells. Frontiers in Energy Research, 0, 10, .	2.3	2