

Muhammad Farooq

List of Publications by Year in descending order

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112
papers

3,193
citations

201674

27
h-index

182427

51
g-index

114
all docs

114
docs citations

114
times ranked

2867
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotechnology in agriculture: Current status, challenges and future opportunities. <i>Science of the Total Environment</i> , 2020, 721, 137778.	8.0	503
2	Lead toxicity in plants: Impacts and remediation. <i>Journal of Environmental Management</i> , 2019, 250, 109557.	7.8	255
3	Seed priming in field crops: potential benefits, adoption and challenges. <i>Crop and Pasture Science</i> , 2019, 70, 731.	1.5	141
4	Enhanced CO ₂ Absorption and Desorption by Monoethanolamine (MEA)-Based Nanoparticle Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7830-7838.	3.7	123
5	Effect of Nano-Graphene Oxide and n-Butanol Fuel Additives Blended with Dieselâ€”Nigella sativa Biodiesel Fuel Emulsion on Diesel Engine Characteristics. <i>Symmetry</i> , 2020, 12, 961.	2.2	109
6	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
7	Modeling Viscosity and Density of Ethanol-Diesel-Biodiesel Ternary Blends for Sustainable Environment. <i>Sustainability</i> , 2020, 12, 5186.	3.2	81
8	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
9	A study of changes in temperature profile of porous fin model using cuckoo search algorithm. <i>AJ - Alexandria Engineering Journal</i> , 2020, 59, 11-24.	6.4	74
10	Influence of Heavy Metals on Seed Germination and Seedling Growth of Wheat, Pea, and Tomato. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	65
11	Collective effect of ternary nano fuel blends on the diesel engine performance and emissions characteristics. <i>Fuel</i> , 2021, 293, 120420.	6.4	65
12	Effect of Additivized Biodiesel Blends on Diesel Engine Performance, Emission, Tribological Characteristics, and Lubricant Tribology. <i>Energies</i> , 2020, 13, 3375.	3.1	64
13	Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. <i>Chemosphere</i> , 2018, 199, 468-476.	8.2	63
14	Untapped renewable energy potential of crop residues in Pakistan: Challenges and future directions. <i>Journal of Environmental Management</i> , 2020, 256, 109924.	7.8	54
15	Thermal and hydraulic optimization of plate heat exchanger using multi objective genetic algorithm. <i>Case Studies in Thermal Engineering</i> , 2017, 10, 570-578.	5.7	47
16	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
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	Effect of alcoholic and nano-particles additives on tribological properties of dieselâ€”palmâ€”sesameâ€”biodiesel blends. <i>Energy Reports</i> , 2021, 7, 1162-1171.	5.1	45

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19	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
20	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
21	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
22	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
23	Validation of Sensor-Based Food Intake Detection by Multicamera Video Observation in an Unconstrained Environment. <i>Nutrients</i> , 2019, 11, 609.	4.1	37
24	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
25	A review of recent advances in adsorption desalination technologies. <i>International Communications in Heat and Mass Transfer</i> , 2021, 128, 105594.	5.6	30
26	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
27	Experimentally tested performance and emissions advantages of using natural-gas and hydrogen fuel mixture with diesel and rapeseed methyl ester as pilot fuels. <i>Applied Energy</i> , 2018, 229, 1260-1268.	10.1	29
28	Biogas Production Potential from Livestock Manure in Pakistan. <i>Sustainability</i> , 2021, 13, 6751.	3.2	29
29	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
30	In-situ regeneration of activated carbon with electric potential swing desorption (EPSD) for the H ₂ S removal from biogas. <i>Bioresource Technology</i> , 2018, 249, 125-131.	9.6	26
31	Performance Evaluation of a Direct Absorption Collector for Solar Thermal Energy Conversion. <i>Energies</i> , 2020, 13, 4956.	3.1	24
32	Thermodynamic studies of adsorption of rhodamine B and Congo red on graphene oxide. , 0, 164, 228-239.		24
33	Fish-Pak: Fish species dataset from Pakistan for visual features based classification. <i>Data in Brief</i> , 2019, 27, 104565.	1.0	23
34	A green route for biodiesel production from waste cooking oil over base heterogeneous catalyst. <i>International Journal of Energy Research</i> , 2019, 43, 5438-5446.	4.5	23
35	Bio-methane from an-aerobic digestion using activated carbon adsorption. <i>Anaerobe</i> , 2017, 46, 33-40.	2.1	21
36	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

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37	Application of Agricultural Waste as Heterogeneous Catalysts for Biodiesel Production. Catalysts, 2021, 11, 1215.	3.5	21
38	Artificial intelligence based operational strategy development and implementation for vibration reduction of a supercritical steam turbine shaft bearing. AEJ - Alexandria Engineering Journal, 2022, 61, 1864-1880.	6.4	20
39	Effect of biodiesel-dimethyl carbonate blends on engine performance, combustion and emission characteristics. AEJ - Alexandria Engineering Journal, 2022, 61, 5111-5121.	6.4	20
40	Ignition sensitivity of different compositional wood pellets and particle size dependence. Journal of Environmental Management, 2019, 232, 789-795.	7.8	19
41	Maximising Yield and Engine Efficiency Using Optimised Waste Cooking Oil Biodiesel. Energies, 2020, 13, 5941.	3.1	19
42	Experiments on Energy-Efficient Evaporative Cooling Systems for Poultry Farm Application in Multan (Pakistan). Sustainability, 2021, 13, 2836.	3.2	19
43	An overview of solid and liquid materials for adsorption-based atmospheric water harvesting. Advances in Mechanical Engineering, 2022, 14, 168781322210827.	1.6	19
44	Mapping past, current and future energy research trend in Pakistan: a scientometric assessment. Scientometrics, 2018, 117, 1733-1753.	3.0	18
45	Exergoeconomic and Environmental Modeling of Integrated Polygeneration Power Plant with Biomass-Based Syngas Supplemental Firing. Energies, 2020, 13, 6018.	3.1	18
46	Construction of Operational Data-Driven Power Curve of a Generator by Industry 4.0 Data Analytics. Energies, 2021, 14, 1227.	3.1	18
47	A comparative assessment of solid fuel pellets production from torrefied agro-residues and their blends. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105125.	5.5	18
48	Potential of Utilization of Renewable Energy Technologies in Gulf Countries. Sustainability, 2021, 13, 10261.	3.2	18
49	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
50	Dynamic Evaluation of Desiccant Dehumidification Evaporative Cooling Options for Greenhouse Air-Conditioning Application in Multan (Pakistan). Energies, 2021, 14, 1097.	3.1	17
51	Correcting solar radiation from reanalysis and analysis datasets with systematic and seasonal variations. Case Studies in Thermal Engineering, 2021, 25, 100933.	5.7	17
52	Phosphonium-based hydrophobic ionic liquids with fluorine anions for biodiesel production from waste cooking oil. International Journal of Environmental Science and Technology, 2019, 16, 1269-1276.	3.5	15
53	CO ₂ capture through electro-conductive adsorbent using physical adsorption system for sustainable development. Environmental Geochemistry and Health, 2020, 42, 1507-1515.	3.4	15
54	Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315Âcc diesel engine. International Journal of Hydrogen Energy, 2021, 46, 19633-19644.	7.1	15

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55	Using sorghum to suppress weeds in autumn planted maize. <i>Crop Protection</i> , 2020, 133, 105162.	2.1	14
56	Energy and Environmental Security in Developing Countries. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021, , .	0.5	14
57	Biomass waste utilization for adsorbent preparation in CO ₂ capture and sustainable environment applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101288.	2.7	14
58	Optimization and Characterization of Adhesion Properties of DLC Coatings on Different Substrates. <i>Materials Today: Proceedings</i> , 2015, 2, 5308-5312.	1.8	13
59	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
60	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
61	Characterization of the viscosity of bio-oil produced by fast pyrolysis of the wheat straw. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 1853-1868.	2.3	13
62	Energy Analysis of a Novel Ejector-Compressor Cooling Cycle Driven by Electricity and Heat (Waste) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.2	11
63	Use of diesel and emulsified diesel in CI engine: A comparative analysis of engine characteristics. <i>Science Progress</i> , 2021, 104, 003685042110209.	1.9	11
64	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
65	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
66	Modification of acidic and textural properties of a sulphated zirconia catalyst for efficient conversion of high-density polyethylene into liquid fuel. <i>Environmental Science and Pollution Research</i> , 2020, 27, 55-65.	5.3	10
67	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
68	Sulphated zirconia catalysed conversion of high density polyethylene to value-added products using a fixed-bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 296-303.	5.5	9
69	Thermodynamic Performance Analysis of Hydrofluoroolefins (HFO) Refrigerants in Commercial Air-Conditioning Systems for Sustainable Environment. <i>Processes</i> , 2020, 8, 187.	2.8	9
70	Flame propagation and burning characteristics of pulverized biomass for sustainable biofuel. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 409-417.	4.6	9
71	Kinetic studies of graphene oxide towards the removal of rhodamine B and congo red. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 1258-1272.	3.3	9
72	Qualitative assessment and global mapping of supercritical CO ₂ power cycle technology. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100978.	2.7	9

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73	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
74	Evaluation of physiochemical, thermal and kinetic properties of wheat straw by demineralising with leaching reagents for energy applications. Energy, 2022, 238, 122013.	8.8	8
75	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
76	Evaluation of Reanalysis and Analysis Datasets against Measured Wind Data for Wind Resource Assessment. Energy and Environment, 2023, 34, 1258-1284.	4.6	8
77	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
78	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
79	Evaluating the combination of Metarhizium anisopliae and an enhanced form of diatomaceous earth (Grain-Guard) for the environmentally friendly control of stored grain pests. Environmental Monitoring and Assessment, 2020, 192, 210.	2.7	7
80	Evolution of kinetic and hydrothermal study of refused derived fuels: Thermo-gravimetric analysis. Energy Reports, 2021, 7, 1757-1764.	5.1	7
81	Hydraulic characterization of Diesel, B50 and B100 using momentum flux. AEJ - Alexandria Engineering Journal, 2022, 61, 4371-4388.	6.4	7
82	Conceptualization of Bioreactor Landfill Approach for Sustainable Waste Management in Karachi, Pakistan. Sustainability, 2022, 14, 3364.	3.2	7
83	Performance and emission analysis of high purity biodiesel blends in diesel engine. Advances in Mechanical Engineering, 2020, 12, 168781402097415.	1.6	6
84	Numerical investigation of particles characteristics on cyclone performance for sustainable environment. Particulate Science and Technology, 2021, 39, 495-503.	2.1	6
85	Thermal Analysis and Energy Efficiency Improvements in Tunnel Kiln for Sustainable Environment. Processes, 2021, 9, 1629.	2.8	6
86	Estimation of daily diffuse solar radiation from clearness index, sunshine duration and meteorological parameters for different climatic conditions. Sustainable Energy Technologies and Assessments, 2021, 47, 101544.	2.7	6
87	Evaluating Evaporative Cooling Assisted Solid Desiccant Dehumidification System for Agricultural Storage Application. Sustainability, 2022, 14, 1479.	3.2	6
88	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
89	Role of Experimental Damage Mechanics for the Circular Economy Implementation in Cotton Industries. , 2021, 1, .		6
90	Impact of Varying Load Conditions and Cooling Energy Comparison of a Double-Inlet Pulse Tube Refrigerator. Processes, 2020, 8, 352.	2.8	4

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91	Performance Investigation of a Solar Thermal Collector Based on Nanostructured Energy Materials. <i>Frontiers in Materials</i> , 2021, 7, .	2.4	4
92	Direct Analytical Modeling for Optimal, On-Design Performance of Ejector for Simulating Heat-Driven Systems. <i>Energies</i> , 2021, 14, 2819.	3.1	4
93	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
94	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
95	Potential Investigation of Membrane Energy Recovery Ventilators for the Management of Building Air-Conditioning Loads. <i>Energies</i> , 2022, 15, 2139.	3.1	4
96	Micro Structural Study of Plasma-sprayed Zirconia-CaO Thermal Barrier Coatings. <i>Materials Today: Proceedings</i> , 2015, 2, 5318-5323.	1.8	3
97	Insight of thermally stratified Jeffrey fluid flow inside porous medium subject to chemical species and melting heat transfer. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401987618.	1.6	3
98	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
99	Exergoeconomic optimization of a binary geothermal power plant. , 2021, , 315-326.		3
100	Carbon Capture for Sustainable Environment in Developing Countries. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021, , 525-544.	0.5	3
101	A study into crack initiation and growth in peroxide-cured silica-filled polybutadiene rubber vulcanisate under a cyclic loading condition. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2021, 24, 69-75.	1.1	3
102	Recent developments in adsorption heat pumps for heating applications. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322210894.	1.6	3
103	A Review of Elemental Mass Origin and Fundamental Forces Unification for Nuclear and Aerospace Industries. , 2021, 1, .		3
104	Energy Analysis of a New Combined Cooling and Power System for Low-Temperature Heat Utilization. , 2020, , .		2
105	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
106	Experimental Validation of a Numerical Model to Predict the Performance of Solar PV Cells. <i>Frontiers in Energy Research</i> , 0, 10, .	2.3	2
107	Experimental investigation to thermal performance of different photo voltaic modules for efficient system design. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 12623-12634.	6.4	2
108	Comparative sorption studies of chromate by nano-and-micro sized Fe ₂ O ₃ particles. <i>Open Chemistry</i> , 2017, 15, 147-155.	1.9	1

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109	Thermoelectric waste heat recovery of an automotive internal combustion engine using (Na, K) co-doped polycrystalline tin selenide (SnSe). <i>Thermal Science</i> , 2021, 25, 407-419.	1.1	1
110	Tungsten carbide material tribology and circular economy relationship in polymer and composites industries. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 0, , 146442072210969.	1.1	1
111	Noise-Resilient Blind Deconvolution using Error-Correcting Codes. , 2020, , .		0
112	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