H Fayaz

List of Publications by Year in descending order

50 papers	4,642 citations	236833 25 h-index	265120 42 g-index
50 all docs	50 docs citations	50 times ranked	4742 citing authors

#	Article	IF	Citations
1	Non-edible vegetable oils: A critical evaluation of oil extraction, fatty acid compositions, biodiesel production, characteristics, engine performance and emissions production. Renewable and Sustainable Energy Reviews, 2013, 18, 211-245.	8.2	953
2	A review on global solar energy policy. Renewable and Sustainable Energy Reviews, 2011, 15, 2149-2163.	8.2	882
3	Towards Sustainable Energy: A Systematic Review of Renewable Energy Sources, Technologies, and Public Opinions. IEEE Access, 2019, 7, 63837-63851.	2.6	560
4	An overview of hydrogen as a vehicle fuel. Renewable and Sustainable Energy Reviews, 2012, 16, 5511-5528.	8.2	242
5	The artificial neural network for solar radiation prediction and designing solar systems: a systematic literature review. Journal of Cleaner Production, 2015, 104, 1-12.	4.6	208
6	Water/MWCNT nanofluid based cooling system of PVT: Experimental and numerical research. Renewable Energy, 2018, 121, 286-300.	4.3	193
7	Energy and exergy analysis of the PVT system: Effect of nanofluid flow rate. Solar Energy, 2018, 169, 217-230.	2.9	150
8	Review on solar water heater collector and thermal energy performance of circulating pipe. Renewable and Sustainable Energy Reviews, 2011, 15, 3801-3812.	8.2	143
9	Numerical and outdoor real time experimental investigation of performance of PCM based PVT system. Solar Energy, 2019, 179, 135-150.	2.9	137
10	Numerical and experimental investigation of the effect of operating conditions on performance of PVT and PVT-PCM. Renewable Energy, 2019, 143, 827-841.	4.3	131
11	Biodegradable carboxymethyl cellulose based material for sustainable packaging application. Scientific Reports, 2020, 10, 21960.	1.6	114
12	Engine performance and emission characteristics of palm biodiesel blends with graphene oxide nanoplatelets and dimethyl carbonate additives. Journal of Environmental Management, 2021, 282, 111917.	3.8	86
13	Impact of palm biodiesel blend on injector deposit formation. Applied Energy, 2013, 111, 882-893.	5.1	82
14	Enhancement in Combustion, Performance, and Emission Characteristics of a Diesel Engine Fueled with Ce-ZnO Nanoparticle Additive Added to Soybean Biodiesel Blends. Energies, 2020, 13, 4578.	1.6	76
15	Collective effect of ternary nano fuel blends on the diesel engine performance and emissions characteristics. Fuel, 2021, 293, 120420.	3.4	65
16	Utilization of biodiesel/Al2O3 nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5897-5911.	2.0	48
17	A review on kiln system modeling. Renewable and Sustainable Energy Reviews, 2011, 15, 2487-2500.	8.2	45
18	Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery Thermal Management System (BTMS): A Critical Review. Archives of Computational Methods in Engineering, 2022, 29, 129-194.	6.0	44

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19	Effect of palm-sesame biodiesel fuels with alcoholic and nanoparticle additives on tribological characteristics of lubricating oil by four ball tribo-tester. AEJ - Alexandria Engineering Journal, 2021, 60, 4537-4546.	3.4	39
20	Influence of Silica Nano-Additives on Performance and Emission Characteristics of Soybean Biodiesel Fuelled Diesel Engine. Energies, 2021, 14, 1489.	1.6	38
21	Waste Animal Bones as Catalysts for Biodiesel Production; A Mini Review. Catalysts, 2021, 11, 630.	1.6	36
22	Production and utilization aspects of waste cooking oil based biodiesel in Pakistan. AEJ - Alexandria Engineering Journal, 2021, 60, 5831-5849.	3.4	34
23	Hydrogen Injection in a Dual Fuel Engine Fueled with Low-Pressure Injection of Methyl Ester of Thevetia Peruviana (METP) for Diesel Engine Maintenance Application. Energies, 2020, 13, 5663.	1.6	30
24	Utilization of Azadirachta indica biodiesel, ethanol and diesel blends for diesel engine applications with engine emission profile. Fuel, 2022, 319, 123798.	3.4	29
25	Magnesium doped TiO2 as an efficient electron transport layer in perovskite solar cells. Case Studies in Thermal Engineering, 2021, 26, 101101.	2.8	28
26	A Novel nanodiamond/Zinc nanocomposite as potential counter electrode for flexible dye sensitized solar cell. Solar Energy, 2020, 197, 1-5.	2.9	25
27	Structural and optical studies of nanostructured TiO2â€“Ge multi-layer thin films. Thin Solid Films, 2013, 536, 220-228.	0.8	21
28	Energy storage technologies. , 2020, , 125-165.		20
29	Experimental investigation on the thermal performance of inserted helical tube three-fluid heat exchanger using graphene/water nanofluid. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5087-5100.	2.0	20
30	Performance analysis of hybrid/single nanofluids on augmentation of heat transport in lidâ€driven undulated cavity. Heat Transfer, 2020, 49, 4204-4225.	1.7	18
31	Analyzing the Public Opinion as a Guide for Renewable-Energy Status in Malaysia: A Case Study. IEEE Transactions on Engineering Management, 2023, 70, 371-385.	2.4	17
32	Solution Processed PVB/Mica Flake Coatings for the Encapsulation of Organic Solar Cells. Materials, 2021, 14, 2496.	1.3	14
33	Development of solar energy and present policies in Malaysia. , 2011, , .		13
34	Solar energy policy: Malaysia vs developed countries. , 2011, , .		11
35	Effect of Soybean biodiesel and Copper coated Zinc oxide Nanoparticles on Enhancement of Diesel Engine Characteristics. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-19.	1.2	10
36	Experimental Studies on Mechanical and Thermal Properties of Polyester Hybrid Composites Reinforced with Sansevieria Trifasciata Fibers. Advances in Materials Science and Engineering, 2022, 2022, 1-6.	1.0	9

#	Article	IF	Citations
37	Techno-economÄ±c AnalysÄ±s of Evacuated Tube Solar Water Heater usÄ±ng F-chart Method. IOP Conference Series: Materials Science and Engineering, 2018, 358, 012016.	0.3	8
38	Combined Effect of Synthesized Waste Milk Scum Oil Methyl Ester and Ethanol Fuel Blend on the Diesel Engine Characteristics. Journal of the Institution of Engineers (India): Series C, 2020, 101, 947-962.	0.7	8
39	An Investigation on the Activation Energy and Thermal Degradation of Biocomposites of Jute/Bagasse/Coir/Nano TiO2/Epoxy-Reinforced Polyaramid Fibers. Journal of Nanomaterials, 2022, 2022, 1-5.	1.5	8
40	A New Hybrid LGPMBWM-PIV Method for Automotive Material Selection. Informatica (Slovenia), 2021, 45, .	0.6	7
41	Developments in Nanoparticles Enhanced Biofuels and Solar Energy in Malaysian Perspective: A Review of State of the Art. Journal of Nanomaterials, 2022, 2022, 1-22.	1.5	7
42	Global solar energy use and social viability in Malaysia. , 2011, , .		6
43	Numerical Investigation of double pipe heat exchanger with different nanofluids. IOP Conference Series: Earth and Environmental Science, 2020, 573, 012030.	0.2	4
44	Numerical investigation on pressure-driven electro osmatic flow and mixing in a constricted micro channel by triangular obstacle. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 982-1013.	1.6	4
45	Characteristics investigation of silicone rubber-based RTV/ÂµATH@nSiO₂ micro/nano composites for outdoor high voltage insulation. Journal of Dispersion Science and Technology, 2022, 43, 1346-1358.	1.3	4
46	Experimental evaluation and numerical verification of enhanced heat transportation by using ultrasonic assisted nanofluids in a closed horizontal circular passage. Case Studies in Thermal Engineering, 2021, 26, 101026.	2.8	4
47	Improved surface temperature of absorber plate using metallic titanium particles for solar still application. Sustainable Energy Technologies and Assessments, 2022, 52, 102092.	1.7	4
48	Solar thermal collector. , 2022, , 93-122.		3
49	A Smart Microgrid Approach for Distributed Network Combined with Power Line Fault Location Detection. , 2021, , .		2
50	Investigation of flexural properties of epoxy composite by utilizing graphene nanofillers and natural hemp fibre reinforcement. Polymers and Polymer Composites, 2022, 30, 096739112210936.	1.0	2