

Atul Dhar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

2,290
citations

22
h-index

47
g-index

77
ext. papers

2,744
ext. citations

5.4
avg, IF

5.76
L-index

#	Paper	IF	Citations
74	Performance enhancement of methanol reforming reactor through finned surfaces and diffused entry for on-board hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 7478-7490	6.7	2
73	Computational study of diesel injection strategies for methane-diesel dual fuel engine. <i>Cleaner Engineering and Technology</i> , 2022 , 6, 100393	2.7	0
72	Hydrogen-diesel co-combustion characteristics, vibro-acoustics and unregulated emissions in EGR assisted dual fuel engine. <i>Fuel</i> , 2022 , 307, 121925	7.1	4
71	Parametric optimization of a cesaro fins employed latent heat storage system for melting performance enhancement. <i>Journal of Energy Storage</i> , 2022 , 51, 104534	7.8	1
70	Automotive Exhaust Thermoelectric Generator Unit Integrated to Exhaust Noise Muffler: Heat Recovery and Noise Attenuation Simulations. <i>Energy, Environment, and Sustainability</i> , 2022 , 323-340	0.8	
69	Effect of injection timing on combustion, performance and emissions characteristics of methanol fuelled DISI engine: A numerical study. <i>Fuel</i> , 2022 , 322, 124167	7.1	1
68	Analysis of mango drying methods and effect of blanching process based on energy consumption, drying time using multi-criteria decision-making. <i>Cleaner Engineering and Technology</i> , 2022 , 8, 100500	2.7	0
67	Computational Study on Parametric Variation with Solar Heat Induction of an Entrained Flow Gasifier. <i>Energies</i> , 2022 , 15, 3873	3.1	
66	Experimental insights on the water entry of hydrophobic sphere. <i>Physics of Fluids</i> , 2021 , 33, 102109	4.4	11
65	Optimization of pineapple drying based on energy consumption, nutrient retention, and drying time through multi-criteria decision-making. <i>Journal of Cleaner Production</i> , 2021 , 292, 125913	10.3	5
64	Optimization of EC parameters using Fe and Al electrodes for hydrogen production and wastewater treatment. <i>Environmental Advances</i> , 2021 , 3, 100029	3.5	5
63	Green hythane production from food waste: Integration of dark-fermentation and methanogenic process towards biogas up-gradation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 18832-18843	6.7	15
62	Numerical investigation of the effect of air supply on cook stove performance. <i>Inhalation Toxicology</i> , 2021 , 1-11	2.7	1
61	Flame kernel growth study of spark ignited hydrogen air premixed combustion at engine conditions. <i>Thermal Science and Engineering Progress</i> , 2021 , 21, 100769	3.6	1
60	The techno-economic and environmental analysis of genetic algorithm (GA) optimized cold thermal energy storage (CTES) for air-conditioning applications. <i>Applied Energy</i> , 2021 , 283, 116253	10.7	10
59	Effect of Nanomaterial Inclusion in Phase Change Materials for Improving the Thermal Performance of Heat Storage: A Review. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7462-7480	6.1	5
58	A numerical study on methanol steam reforming reactor utilizing engine exhaust heat for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 38073-38073	6.7	2

57	Effect of methane augmentations on engine performance and emissions. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 429-439	6.1	7
56	Effect of methane augmentation on combustion stability and unregulated emissions in compression ignition engine. <i>Fuel</i> , 2020 , 263, 116672	7.1	10
55	Effect of hydrogen fumigation on combustion stability and unregulated emissions in a diesel fuelled compression ignition engine. <i>Applied Energy</i> , 2019 , 253, 113620	10.7	18
54	Computational investigation of diesel injection strategies in hydrogen-diesel dual fuel engine. <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 36, 100543	4.7	10
53	Experimental study of engine performance and emissions for hydrogen diesel dual fuel engine with exhaust gas recirculation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12163-12175	6.7	39
52	Solar Assisted Gasification. <i>Energy, Environment, and Sustainability</i> , 2019 , 551-575	0.8	2
51	Combustion, vibration and noise analysis of hydrogen-diesel dual fuelled engine. <i>Fuel</i> , 2019 , 241, 488-494	7.1	35
50	Particulate Emissions from Hydrogen Diesel Fuelled CI Engines. <i>Energy, Environment, and Sustainability</i> , 2019 , 199-211	0.8	2
49	Solar Thermal Powered Bakery Oven. <i>Energy, Environment, and Sustainability</i> , 2019 , 577-592	0.8	1
48	Solar-Assisted Gasification Based Cook Stoves. <i>Energy, Environment, and Sustainability</i> , 2018 , 403-422	0.8	
47	Effect of hydrogen supplementation on engine performance and emissions. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 7570-7580	6.7	60
46	Compression ratio influence on combustion and emissions characteristic of hydrogen diesel dual fuel CI engine: Numerical Study. <i>Fuel</i> , 2018 , 222, 852-858	7.1	33
45	Review of Experimental and Computational Studies on Spray, Combustion, Performance, and Emission Characteristics of Biodiesel Fueled Engines. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	35
44	Combustion characteristics of a common rail direct injection engine using different fuel injection strategies. <i>International Journal of Thermal Sciences</i> , 2018 , 134, 475-484	4.1	25
43	Role of Electric Vehicles in Future Road Transport. <i>Energy, Environment, and Sustainability</i> , 2018 , 43-60	0.8	2
42	Fuel Injection Equipment (FIE) Design for the New-Generation Alternative Fuel-Powered Diesel Engines. <i>Energy, Environment, and Sustainability</i> , 2018 , 387-405	0.8	3
41	Exhaust Heat Recovery Using Thermoelectric Generators: A Review. <i>Energy, Environment, and Sustainability</i> , 2018 , 193-206	0.8	7
40	Recent Advancements in After-Treatment Technology for Internal Combustion Engines: An Overview. <i>Energy, Environment, and Sustainability</i> , 2018 , 159-179	0.8	4

39	Introduction to Sustainable Energy, Transportation Technologies, and Policy. <i>Energy, Environment, and Sustainability</i> , 2018 , 3-7	0.8	7
38	Introduction of Alternative Fuels. <i>Energy, Environment, and Sustainability</i> , 2018 , 3-6	0.8	1
37	Evolving Energy Scenario: Role and Scope for Alternative Fuels in Transport Sector. <i>Energy, Environment, and Sustainability</i> , 2018 , 7-19	0.8	4
36	Advances in Hydrogen-Fuelled Compression Ignition Engine. <i>Energy, Environment, and Sustainability</i> , 2018 , 55-78	0.8	3
35	Potential and challenges for large-scale application of biodiesel in automotive sector. <i>Progress in Energy and Combustion Science</i> , 2017 , 61, 113-149	33.6	103
34	Exhaust Heat Recovery Options for Diesel Locomotives 2017 , 27-40		2
33	Introduction to the Locomotives and Rail Road Transportation 2017 , 3-7		
32	Phenomenological models for prediction of spray penetration and mixture properties for different injection profiles. <i>Fuel</i> , 2016 , 171, 136-142	7.1	7
31	Development of chemical kinetics based hydrogen HCCI combustion model for parametric investigation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6148-6154	6.7	15
30	Effect of geometric parameters on the acoustical performance of single inlet single outlet expansion chamber muffler 2016 ,		2
29	Numerical investigation of pressure and temperature influence on flame speed in CH ₄ H ₂ premixed combustion. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9644-9652	6.7	7
28	Combustion, performance and emissions characteristics of a newly developed CRDI single cylinder diesel engine. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2015 , 40, 1937-1954	1	10
27	Effect of Karanja biodiesel blends on particulate emissions from a transportation engine. <i>Fuel</i> , 2015 , 141, 154-163	7.1	22
26	Technical feasibility study of butanol/gasoline blends for powering medium-duty transportation spark ignition engine. <i>Renewable Energy</i> , 2015 , 76, 706-716	8.1	57
25	Improving oxidation stability of biodiesels derived from Karanja, Neem and Jatropha: step forward in the direction of commercialisation. <i>Journal of Cleaner Production</i> , 2015 , 107, 646-652	10.3	39
24	Effect of fuel injection pressure and injection timing of Karanja biodiesel blends on fuel spray, engine performance, emissions and combustion characteristics. <i>Energy Conversion and Management</i> , 2015 , 91, 302-314	10.6	208
23	Experimental investigations of the effect of pilot injection on performance, emissions and combustion characteristics of Karanja biodiesel fuelled CRDI engine. <i>Energy Conversion and Management</i> , 2015 , 93, 357-366	10.6	61
22	Particulate emissions from biodiesel fuelled CI engines. <i>Energy Conversion and Management</i> , 2015 , 94, 311-330	10.6	80

21	Combustion, performance, emissions and particulate characterization of a methanol/gasoline blend (gasohol) fuelled medium duty spark ignition transportation engine. <i>Fuel Processing Technology</i> , 2014 , 121, 16-24	7.2	114
20	Performance, emissions and combustion characteristics of Karanja biodiesel in a transportation engine. <i>Fuel</i> , 2014 , 119, 70-80	7.1	178
19	Effect of fuel injection pressure and injection timing on spray characteristics and particulate size/number distribution in a biodiesel fuelled common rail direct injection diesel engine. <i>Applied Energy</i> , 2014 , 130, 212-221	10.7	130
18	Effect of Karanja biodiesel blend on engine wear in a diesel engine. <i>Fuel</i> , 2014 , 134, 81-89	7.1	44
17	Experimental investigations of effect of Karanja biodiesel on tribological properties of lubricating oil in a compression ignition engine. <i>Fuel</i> , 2014 , 130, 112-119	7.1	42
16	Experimental investigations of a single cylinder genset engine with common rail fuel injection system. <i>Thermal Science</i> , 2014 , 18, 249-258	1.2	3
15	Experimental investigations of performance, emission and combustion characteristics of Karanja oil blends fuelled DIC engine. <i>Renewable Energy</i> , 2013 , 52, 283-291	8.1	116
14	Effect of fuel injection timing and pressure on combustion, emissions and performance characteristics of a single cylinder diesel engine. <i>Fuel</i> , 2013 , 111, 374-383	7.1	276
13	Effect of fuel injection pressure on diesel particulate size and number distribution in a CRDI single cylinder research engine. <i>Fuel</i> , 2013 , 107, 84-89	7.1	90
12	Effect of Multiple Injections on Particulate Size-Number Distributions in a Common Rail Direct Injection Engine Fueled with Karanja Biodiesel Blends 2013 ,		11
11	Wear, durability, and lubricating oil performance of a straight vegetable oil (Karanja) blend fueled direct injection compression ignition engine. <i>Journal of Renewable and Sustainable Energy</i> , 2012 , 4, 063138	3.5	14
10	Performance, Emission and Combustion Characteristics of Preheated and Blended Jatropha Oil 2012 , 491-508		
9	Production of biodiesel from high-FFA neem oil and its performance, emission and combustion characterization in a single cylinder DIC engine. <i>Fuel Processing Technology</i> , 2012 , 97, 118-129	7.2	176
8	Karanja oil utilization in a direct-injection engine by preheating. Part 2: experimental investigations of engine durability and lubricating oil properties. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2010 , 224, 85-97	1.4	21
7	Karanja oil utilization in a direct-injection engine by preheating. Part 1: experimental investigations of engine performance, emissions, and combustion characteristics. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2010 , 224, 73-84	1.4	7
6	Comparative Performance, Emission, and Combustion Characteristics of Rice-Bran Oil and Its Biodiesel in a Transportation Diesel Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010 , 132,	1.7	19
5	Experimental Investigations of Preheated Jatropha Oil Fuelled Direct Injection Compression Ignition Engine Part 1: Performance, Emission, and Combustion Characteristics. <i>Journal of ASTM International</i> , 2010 , 7, 102414		8
4	Experimental Investigation of Preheated Jatropha Oil Fuelled Direct Injection Compression Ignition Engine Part 2: Engine Durability and Effect on Lubricating Oil. <i>Journal of ASTM International</i> , 2010 , 7, 102415		5

3	Performance, Emission and Combustion Characteristics of Jatropha Oil Blends in a Direct Injection CI Engine 2009 ,	21
2	Measurement of dynamic lubricating oil film thickness between piston ring and liner in a motored engine. <i>Sensors and Actuators A: Physical</i> , 2009 , 149, 7-15	3-9 25
1	Measurement of Lubricating Oil Film Thickness between Piston Ring -liner Interface in an Engine Simulator 2008 ,	4