Atul Dhar

List of Publications by Citations

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	Effect of fuel injection timing and pressure on combustion, emissions and performance characteristics of a single cylinder diesel engine. *Fuel*, **2013**, 111, 374-383	7.1	276
73	Effect of fuel injection pressure and injection timing of Karanja biodiesel blends on fuel spray, engine performance, emissions and combustion characteristics. *Energy Conversion and Management* , **2015**, 91, 302-314	10.6	208
72	Performance, emissions and combustion characteristics of Karanja biodiesel in a transportation engine. *Fuel*, **2014**, 119, 70-80	7.1	178
71	Production of biodiesel from high-FFA neem oil and its performance, emission and combustion characterization in a single cylinder DICI engine. *Fuel Processing Technology*, **2012**, 97, 118-129	7.2	176
70	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. *Applied Energy*, **2014**, 130, 212-221	10.7	130
69	Experimental investigations of performance, emission and combustion characteristics of Karanja oil blends fuelled DICI engine. *Renewable Energy*, **2013**, 52, 283-291	8.1	116
68	Combustion, performance, emissions and particulate characterization of a methanol–gasoline blend (gasohol) fuelled medium duty spark ignition transportation engine. *Fuel Processing Technology*, **2014**, 121, 16-24	7.2	114
67	Potential and challenges for large-scale application of biodiesel in automotive sector. *Progress in Energy and Combustion Science*, **2017**, 61, 113-149	33.6	103
66	Effect of fuel injection pressure on diesel particulate size and number distribution in a CRDI single cylinder research engine. *Fuel*, **2013**, 107, 84-89	7.1	90
65	Particulate emissions from biodiesel fuelled CI engines. *Energy Conversion and Management*, **2015**, 94, 311-330	10.6	80
64	Experimental investigations of the effect of pilot injection on performance, emissions and combustion characteristics of Karanja biodiesel fuelled CRDI engine. *Energy Conversion and Management*, **2015**, 93, 357-366	10.6	61
63	Effect of hydrogen supplementation on engine performance and emissions. *International Journal of Hydrogen Energy*, **2018**, 43, 7570-7580	6.7	60
62	Technical feasibility study of butanol–gasoline blends for powering medium-duty transportation spark ignition engine. *Renewable Energy*, **2015**, 76, 706-716	8.1	57
61	Effect of Karanja biodiesel blend on engine wear in a diesel engine. *Fuel*, **2014**, 134, 81-89	7.1	44
60	Experimental investigations of effect of Karanja biodiesel on tribological properties of lubricating oil in a compression ignition engine. *Fuel*, **2014**, 130, 112-119	7.1	42
59	Experimental study of engine performance and emissions for hydrogen diesel dual fuel engine with exhaust gas recirculation. *International Journal of Hydrogen Energy*, **2019**, 44, 12163-12175	6.7	39
58	Improving oxidation stability of biodiesels derived from Karanja, Neem and Jatropha: step forward in the direction of commercialisation. *Journal of Cleaner Production*, **2015**, 107, 646-652	10.3	39

57	Review of Experimental and Computational Studies on Spray, Combustion, Performance, and Emission Characteristics of Biodiesel Fueled Engines. *Journal of Energy Resources Technology, Transactions of the ASME*, **2018**, 140,	2.6	35
56	Combustion, vibration and noise analysis of hydrogen-diesel dual fuelled engine. *Fuel*, **2019**, 241, 488-494	7.1	35
55	Compression ratio influence on combustion and emissions characteristic of hydrogen diesel dual fuel CI engine: Numerical Study. *Fuel*, **2018**, 222, 852-858	7.1	33
54	Combustion characteristics of a common rail direct injection engine using different fuel injection strategies. *International Journal of Thermal Sciences*, **2018**, 134, 475-484	4.1	25
53	Measurement of dynamic lubricating oil film thickness between piston ring and liner in a motored engine. *Sensors and Actuators A: Physical*, **2009**, 149, 7-15	3.9	25
52	Effect of Karanja biodiesel blends on particulate emissions from a transportation engine. *Fuel*, **2015** , 141, 154-163	7.1	22
51	Karanja oil utilization in a direct-injection engine by preheating. Part 2: experimental investigations of engine durability and lubricating oil properties. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2010**, 224, 85-97	1.4	21
50	Performance, Emission and Combustion Characteristics of Jatropha Oil Blends in a Direct Injection CI Engine **2009**,		21
49	Comparative Performance, Emission, and Combustion Characteristics of Rice-Bran Oil and Its Biodiesel in a Transportation Diesel Engine. *Journal of Engineering for Gas Turbines and Power*, **2010** , 132,	1.7	19
48	Effect of hydrogen fumigation on combustion stability and unregulated emissions in a diesel fuelled compression ignition engine. *Applied Energy*, **2019**, 253, 113620	10.7	18
47	Development of chemical kinetics based hydrogen HCCI combustion model for parametric investigation. *International Journal of Hydrogen Energy*, **2016**, 41, 6148-6154	6.7	15
46	Green hythane production from food waste: Integration of dark-fermentation and methanogenic process towards biogas up-gradation. *International Journal of Hydrogen Energy*, **2021**, 46, 18832-18843	6.7	15
45	Wear, durability, and lubricating oil performance of a straight vegetable oil (Karanja) blend fueled direct injection compression ignition engine. *Journal of Renewable and Sustainable Energy*, **2012**, 4, 063138	2.5	14
44	Effect of Multiple Injections on Particulate Size-Number Distributions in a Common Rail Direct Injection Engine Fueled with Karanja Biodiesel Blends **2013**,		11
43	Experimental insights on the water entry of hydrophobic sphere. *Physics of Fluids*, **2021**, 33, 102109	4.4	11
42	Computational investigation of diesel injection strategies in hydrogen-diesel dual fuel engine. *Sustainable Energy Technologies and Assessments*, **2019**, 36, 100543	4.7	10
41	Combustion, performance and emissions characteristics of a newly developed CRDI single cylinder diesel engine. *Sadhana - Academy Proceedings in Engineering Sciences*, **2015**, 40, 1937-1954	1	10
40	Effect of methane augmentation on combustion stability and unregulated emissions in compression ignition engine. *Fuel*, **2020**, 263, 116672	7.1	10

39	The techno-economic and environmental analysis of genetic algorithm (GA) optimized cold thermal energy storage (CTES) for air-conditioning applications. *Applied Energy*, **2021**, 283, 116253	10.7	10
38	Experimental Investigations of Preheated Jatropha Oil Fuelled Direct Injection Compression Ignition Engine—Part 1: Performance, Emission, and Combustion Characteristics. *Journal of ASTM International*, **2010**, 7, 102414		8
37	Effect of methane augmentations on engine performance and emissions. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 429-439	6.1	7
36	Phenomenological models for prediction of spray penetration and mixture properties for different injection profiles. *Fuel*, **2016**, 171, 136-142	7.1	7
35	Karanja oil utilization in a direct-injection engine by preheating. Part 1: experimental investigations of engine performance, emissions, and combustion characteristics. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2010**, 224, 73-84	1.4	7
34	Numerical investigation of pressure and temperature influence on flame speed in CH4H2 premixed combustion. *International Journal of Hydrogen Energy*, **2016**, 41, 9644-9652	6.7	7
33	Exhaust Heat Recovery Using Thermoelectric Generators: A Review. *Energy, Environment, and Sustainability*, **2018**, 193-206	0.8	7
32	Introduction to Sustainable Energy, Transportation Technologies, and Policy. *Energy, Environment, and Sustainability*, **2018**, 3-7	0.8	7
31	Experimental Investigation of Preheated Jatropha Oil Fuelled Direct Injection Compression Ignition Engine—Part 2: Engine Durability and Effect on Lubricating Oil. *Journal of ASTM International*, **2010**, 7, 102415		5
30	Optimization of pineapple drying based on energy consumption, nutrient retention, and drying time through multi-criteria decision-making. *Journal of Cleaner Production*, **2021**, 292, 125913	10.3	5
29	Optimization of EC parameters using Fe and Al electrodes for hydrogen production and wastewater treatment. *Environmental Advances*, **2021**, 3, 100029	3.5	5
28	Effect of Nanomaterial Inclusion in Phase Change Materials for Improving the Thermal Performance of Heat Storage: A Review. *ACS Applied Energy Materials*, **2021**, 4, 7462-7480	6.1	5
27	Measurement of Lubricating Oil Film Thickness between Piston Ring -liner Interface in an Engine Simulator **2008**,		4
26	Recent Advancements in After-Treatment Technology for Internal Combustion Engines—An Overview. *Energy, Environment, and Sustainability*, **2018**, 159-179	0.8	4
25	Evolving Energy Scenario: Role and Scope for Alternative Fuels in Transport Sector. *Energy, Environment, and Sustainability*, **2018**, 7-19	0.8	4
24	Hydrogen-diesel co-combustion characteristics, vibro-acoustics and unregulated emissions in EGR assisted dual fuel engine. *Fuel*, **2022**, 307, 121925	7.1	4
23	Experimental investigations of a single cylinder genset engine with common rail fuel injection system. *Thermal Science*, **2014**, 18, 249-258	1.2	3
22	Fuel Injection Equipment (FIE) Design for the New-Generation Alternative Fuel-Powered Diesel Engines. *Energy, Environment, and Sustainability*, **2018**, 387-405	0.8	3

21	Advances in Hydrogen-Fuelled Compression Ignition Engine. *Energy, Environment, and Sustainability* , **2018**, 55-78	0.8	3
20	Performance enhancement of methanol reforming reactor through finned surfaces and diffused entry for on-board hydrogen generation. *International Journal of Hydrogen Energy*, **2022**, 47, 7478-7490	6.7	2
19	Solar Assisted Gasification. *Energy, Environment, and Sustainability*, **2019**, 551-575	0.8	2
18	Exhaust Heat Recovery Options for Diesel Locomotives **2017**, 27-40		2
17	Role of Electric Vehicles in Future Road Transport. *Energy, Environment, and Sustainability*, **2018**, 43-60	0.8	2
16	Effect of geometric parameters on the acoustical performance of single inlet single outlet expansion chamber muffler **2016**,		2
15	Particulate Emissions from Hydrogen Diesel Fuelled CI Engines. *Energy, Environment, and Sustainability*, **2019**, 199-211	0.8	2
14	A numerical study on methanol steam reforming reactor utilizing engine exhaust heat for hydrogen generation. *International Journal of Hydrogen Energy*, **2021**, 46, 38073-38073	6.7	2
13	Numerical investigation of the effect of air supply on cook stove performance. *Inhalation Toxicology*, **2021**, 1-11	2.7	1
12	Solar Thermal Powered Bakery Oven. *Energy, Environment, and Sustainability*, **2019**, 577-592	0.8	1
11	Flame kernel growth study of spark ignited hydrogen air premixed combustion at engine conditions. *Thermal Science and Engineering Progress*, **2021**, 21, 100769	3.6	1
10	Introduction of Alternative Fuels. *Energy, Environment, and Sustainability*, **2018**, 3-6	0.8	1
9	Parametric optimization of a cesaro fins employed latent heat storage system for melting performance enhancement. *Journal of Energy Storage*, **2022**, 51, 104534	7.8	1
8	Effect of injection timing on combustion, performance and emissions characteristics of methanol fuelled DISI engine: A numerical study. *Fuel*, **2022**, 322, 124167	7.1	1
7	Computational study of diesel injection strategies for methane-diesel dual fuel engine. *Cleaner Engineering and Technology*, **2022**, 6, 100393	2.7	0
6	Analysis of mango drying methods and effect of blanching process based on energy consumption, drying time using multi-criteria decision-making. *Cleaner Engineering and Technology*, **2022**, 8, 100500	2.7	0
5	Solar-Assisted Gasification Based Cook Stoves. *Energy, Environment, and Sustainability*, **2018**, 403-422	0.8	
4	Performance, Emission and Combustion Characteristics of Preheated and Blended Jatropha Oil **2012**, 491-508		

3	Introduction to the Locomotives and Rail Road Transportation **2017**, 3-7	
2	Automotive Exhaust Thermoelectric Generator Unit Integrated to Exhaust Noise Muffler: Heat Recovery and Noise Attenuation Simulations. *Energy, Environment, and Sustainability*, **2022**, 323-340	0.8
1	Computational Study on Parametric Variation with Solar Heat Induction of an Entrained Flow Gasifier. *Energies*, **2022**, 15, 3873	3.1