

Upendra Rajak

List of Publications by Year in descending order

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39
papers

1,801
citations

218677

26
h-index

345221

36
g-index

43
all docs

43
docs citations

43
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of emission from ethylic biodiesel of edible and non-edible vegetable oil, animal fats, waste oil and alcohol in CI engine. <i>Energy Conversion and Management</i> , 2018, 166, 704-718.	9.2	160
2	Assessment of diesel engine performance using spirulina microalgae biodiesel. <i>Energy</i> , 2019, 166, 1025-1036.	8.8	117
3	Effect of spirulina microalgae biodiesel enriched with diesel fuel on performance and emission characteristics of CI engine. <i>Fuel</i> , 2020, 268, 117305.	6.4	96
4	Performance, combustion and emission analysis of microalgae Spirulina in a common rail direct injection diesel engine. <i>Fuel</i> , 2019, 255, 115855.	6.4	92
5	Numerical investigation of performance, combustion and emission characteristics of various biofuels. <i>Energy Conversion and Management</i> , 2018, 156, 235-252.	9.2	87
6	Spirulina microalgae biodiesel – A novel renewable alternative energy source for compression ignition engine. <i>Journal of Cleaner Production</i> , 2018, 201, 343-357.	9.3	87
7	Performance and emission characteristics assessment of compression ignition engine fuelled with the blends of novel antioxidant catechol-daok biodiesel. <i>Energy</i> , 2022, 245, 123304.	8.8	80
8	Prediction of Overall Characteristics of a Dual Fuel CI Engine Working on Low-Density Ethanol and Diesel Blends at Varying Compression Ratios. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 15323-15330.	3.0	77
9	Performance and emission analysis of a diesel engine using hydrogen enriched n-butanol, diethyl ester and Spirulina microalgae biodiesel. <i>Fuel</i> , 2020, 271, 117645.	6.4	75
10	Effects of high-dosage copper oxide nanoparticles addition in diesel fuel on engine characteristics. <i>Energy</i> , 2021, 229, 120611.	8.8	64
11	Optimization of performance and emission parameters of direct injection diesel engine fuelled with microalgae Spirulina (L.) – Response surface methodology and full factorial method approach. <i>Fuel</i> , 2021, 285, 119103.	6.4	61
12	Effect of microalgae, tyre pyrolysis oil and Jatropha biodiesel enriched with diesel fuel on performance and emission characteristics of CI engine. <i>Fuel</i> , 2020, 278, 118252.	6.4	60
13	Performance and ecological parameters of a diesel engine fueled with diesel and plastic pyrolyzed oil (PPO) at variable working parameters. <i>Environmental Technology and Innovation</i> , 2021, 22, 101491.	6.1	59
14	Investigations of spirulina, waste cooking and animal fats blended biodiesel fuel on auto-ignition diesel engine performance, emission characteristics. <i>Fuel</i> , 2020, 276, 118123.	6.4	57
15	Characteristics of microalgae spirulina biodiesel with the impact of n-butanol addition on a CI engine. <i>Energy</i> , 2019, 189, 116311.	8.8	48
16	A comparative analysis of engine characteristics from various biodiesels: Numerical study. <i>Energy Conversion and Management</i> , 2019, 180, 904-923.	9.2	47
17	Synthesis of graphene oxide nanoparticles and the influences of their usage as fuel additives on CI engine behaviors. <i>Energy</i> , 2022, 244, 122603.	8.8	43
18	Alternating the environmental benefits of Aegle-diesel blends used in compression ignition. <i>Fuel</i> , 2019, 256, 115835.	6.4	42

#	ARTICLE	IF	CITATIONS
19	Effects of microalgae -ethanol-methanol-diesel blends on the spray characteristics and emissions of a diesel engine. <i>Environment, Development and Sustainability</i> , 2023, 25, 1-22.	5.0	41
20	Numerical study on emission characteristics of a diesel engine fuelled with diesel-spirulina microalgae-ethanol blends at various operating conditions. <i>Fuel</i> , 2020, 262, 116519.	6.4	36
21	Numerical and experimental investigation of CI engine behaviours supported by zinc oxide nanomaterial along with diesel fuel. <i>Energy</i> , 2022, 239, 122424.	8.8	36
22	A comprehensive review of the influence of physicochemical properties of biodiesel on combustion characteristics, engine performance and emissions. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2021, 8, 510-533.	4.2	34
23	Utilization of renewable and sustainable microalgae biodiesel for reducing the engine emissions in a diesel engine. <i>Fuel</i> , 2022, 311, 122498.	6.4	34
24	Experimental investigation of performance, combustion and emission characteristics of a variable compression ratio engine using low-density plastic pyrolyzed oil and diesel fuel blends. <i>Fuel</i> , 2022, 319, 123720.	6.4	33
25	Financial assessment, performance and emission analysis of <i>Moringa oleifera</i> and <i>Jatropha curcas</i> methyl ester fuel blends in a single-cylinder diesel engine. <i>Energy Conversion and Management</i> , 2020, 224, 113362.	9.2	29
26	The effect of ethanol-methanol-diesel-microalgae blends on performance, combustion and emissions of a direct injection diesel engine. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100851.	2.7	27
27	Experimental and empirical investigation of a CI engine fuelled with blends of diesel and roselle biodiesel. <i>Scientific Reports</i> , 2021, 11, 18865.	3.3	27
28	Experimental & predicative analysis of engine characteristics of various biodiesels. <i>Fuel</i> , 2021, 285, 119097.	6.4	25
29	Influence of combustion and emission characteristics on a compression ignition engine from a different generation of biodiesel. <i>Engineering Science and Technology, an International Journal</i> , 2020, 23, 10-20.	3.2	21
30	Performance analysis and exhaust emissions of aegle methyl ester operated compression ignition engine. <i>Thermal Science and Engineering Progress</i> , 2019, 12, 100354.	2.7	20
31	Experimental examination of CI engine fueled with various blends of diesel-apricot oil at different engine operating conditions. <i>Materials Today: Proceedings</i> , 2022, 49, 307-310.	1.8	15
32	Numerical analysis of performance and emission behavior of CI engine fueled with microalgae biodiesel blend. <i>Materials Today: Proceedings</i> , 2022, 49, 301-306.	1.8	13
33	Exhaust emission characteristics study of light and heavy-duty diesel vehicles in India. <i>Case Studies in Thermal Engineering</i> , 2022, 29, 101709.	5.7	13
34	Numerical investigation of the effect of spray angle on emission characteristics of a diesel engine fueled with natural gas and diesel. <i>Energy Reports</i> , 2021, 7, 7273-7287.	5.1	9
35	The effects on performance and emission characteristics of DI engine fuelled with CeO ₂ nanoparticles addition in diesel/tyre pyrolysis oil blends. <i>Environment, Development and Sustainability</i> , 0, , 1.	5.0	8
36	An Experimental Study and Joining Parameters Optimization of Friction Stir Weld Butt Joint by Taguchi Approach to Maximize the Mechanical Properties. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 8601-8615.	3.0	5

#	ARTICLE	IF	CITATIONS
37	Performance and Emission Characteristics of a Compression Ignition Engine Fueled With Roselle and Karanja Biodiesel. , 2021, , 165-176.		1
38	Influence of fuel injection pressure for diesel-waste cooking oil cofuel in a research engine. , 2021, , 21-40.		1
39	Numerical Analysis of Performance Parameters and Exhaust Gas Emission of the Engine with Regular Air Intake System and with Insulated Air Intake System. Springer Proceedings in Energy, 2021, , 759-775.	0.3	0