

Sm Ashrafur Rahman

List of Publications by Citations

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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.

70
papers

2,656
citations

28
h-index

50
g-index

74
ext. papers

3,276
ext. citations

6.5
avg, IF

5.54
L-index

#	Paper	IF	Citations
70	Impact of COVID-19 on the social, economic, environmental and energy domains: Lessons learnt from a global pandemic. <i>Sustainable Production and Consumption</i> , 2021 , 26, 343-359	8.2	178
69	The effect of additives on properties, performance and emission of biodiesel fuelled compression ignition engine. <i>Energy Conversion and Management</i> , 2014 , 88, 348-364	10.6	163
68	Production of palm and Calophyllum inophyllum based biodiesel and investigation of blend performance and exhaust emission in an unmodified diesel engine at high idling conditions. <i>Energy Conversion and Management</i> , 2013 , 76, 362-367	10.6	137
67	Production of palm and jatropha based biodiesel and investigation of palm-jatropha combined blend properties, performance, exhaust emission and noise in an unmodified diesel engine. <i>Journal of Cleaner Production</i> , 2014 , 65, 295-303	10.3	131
66	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018 , 11, 3115	3.1	126
65	Impact of oxygenated additives to palm and jatropha biodiesel blends in the context of performance and emissions characteristics of a light-duty diesel engine. <i>Energy Conversion and Management</i> , 2014 , 83, 149-158	10.6	119
64	Energy balance of internal combustion engines using alternative fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 26, 20-33	16.2	110
63	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019 , 12, 3167	3.1	108
62	Impact of palm, mustard, waste cooking oil and Calophyllum inophyllum biofuels on performance and emission of CI engine. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 664-682	16.2	104
61	Performance and emission analysis of Jatropha curcas and Moringa oleifera methyl ester fuel blends in a multi-cylinder diesel engine. <i>Journal of Cleaner Production</i> , 2014 , 65, 304-310	10.3	99
60	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	98
59	Impact of idling on fuel consumption and exhaust emissions and available idle-reduction technologies for diesel vehicles A review. <i>Energy Conversion and Management</i> , 2013 , 74, 171-182	10.6	93
58	Performance, emissions, and heat losses of palm and jatropha biodiesel blends in a diesel engine. <i>Industrial Crops and Products</i> , 2014 , 59, 96-104	5.9	80
57	An experimental investigation of biodiesel production, characterization, engine performance, emission and noise of Brassica juncea methyl ester and its blends. <i>Journal of Cleaner Production</i> , 2014 , 79, 74-81	10.3	75
56	Energy scenario and biofuel policies and targets in ASEAN countries. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 46, 51-61	16.2	63
55	Engine combustion, performance and emission characteristics of gas to liquid (GTL) fuels and its blends with diesel and bio-diesel. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 30, 961-986	16.2	58
54	Potential of biodiesel as a renewable energy source in Bangladesh. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 50, 819-834	16.2	53

53	Assessing idling effects on a compression ignition engine fueled with Jatropha and Palm biodiesel blends. <i>Renewable Energy</i> , 2014 , 68, 644-650	8.1	45
52	Effect of idling on fuel consumption and emissions of a diesel engine fueled by Jatropha biodiesel blends. <i>Journal of Cleaner Production</i> , 2014 , 69, 208-215	10.3	44
51	LNG Regasification Terminals: The Role of Geography and Meteorology on Technology Choices. <i>Energies</i> , 2017 , 10, 2152	3.1	42
50	Impact of fatty acid composition and physicochemical properties of Jatropha and Alexandrian laurel biodiesel blends: An analysis of performance and emission characteristics. <i>Journal of Cleaner Production</i> , 2016 , 133, 1181-1189	10.3	39
49	Assessment of emission and performance of compression ignition engine with varying injection timing. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 35, 221-230	16.2	39
48	Enhancement in Combustion, Performance, and Emission Characteristics of a Diesel Engine Fueled with Ce-ZnO Nanoparticle Additive Added to Soybean Biodiesel Blends. <i>Energies</i> , 2020 , 13, 4578	3.1	38
47	Experimental Investigation of Mustard Biodiesel Blend Properties, Performance, Exhaust Emission and Noise in an Unmodified Diesel Engine. <i>APCBEE Procedia</i> , 2014 , 10, 149-153		36
46	Effect of dynamic injection pressure on performance, emission and combustion characteristics of a compression ignition engine. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 1205-1211	16.2	33
45	The impact of chemical composition of oxygenated fuels on morphology and nanostructure of soot particles. <i>Fuel</i> , 2020 , 259, 116167	7.1	33
44	Production of biodiesel from a non-edible source and study of its combustion, and emission characteristics: A comparative study with B5. <i>Renewable Energy</i> , 2016 , 88, 20-29	8.1	31
43	Source, distribution and emerging threat of micro- and nanoplastics to marine organism and human health: Socio-economic impact and management strategies. <i>Environmental Research</i> , 2021 , 195, 110857	7.9	31
42	Fuel properties and emission characteristics of essential oil blends in a compression ignition engine. <i>Fuel</i> , 2019 , 238, 440-453	7.1	28
41	Study of the Effect of Storage Time on the Oxidation and Thermal Stability of Various Biodiesels and Their Blends. <i>Energy & Fuels</i> , 2014 , 28, 1081-1089	4.1	24
40	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019 , 12, 4116	3.1	24
39	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019 , 12, 3557	3.1	23
38	Investigation of microalgae HTL fuel effects on diesel engine performance and exhaust emissions using surrogate fuels. <i>Energy Conversion and Management</i> , 2017 , 152, 186-200	10.6	19
37	Assessment of the use of a novel series of oxygenated fuels for a turbocharged diesel engine. <i>Journal of Cleaner Production</i> , 2019 , 217, 549-558	10.3	19
36	Characterization and prediction of blend properties and evaluation of engine performance and emission parameters of a CI engine operated with various biodiesel blends. <i>RSC Advances</i> , 2015 , 5, 13248-13255	3.7	19

35	Relationship between Weather Variables and New Daily COVID-19 Cases in Dhaka, Bangladesh. <i>Sustainability</i> , 2020 , 12, 8319	3.6	19
34	Effect of sulphur and vanadium spiked fuels on particle characteristics and engine performance of auxiliary diesel engines. <i>Environmental Pollution</i> , 2018 , 243, 1943-1951	9.3	18
33	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. <i>Energies</i> , 2019 , 12, 4650	3.1	18
32	On-road NOx emissions of a modern commercial light-duty diesel vehicle using a blend of tyre oil and diesel. <i>Energy Reports</i> , 2019 , 5, 349-356	4.6	16
31	Study of performance, combustion and emission characteristics of a common rail diesel engine with tea tree oil-diglyme blends. <i>Energy</i> , 2019 , 180, 216-228	7.9	15
30	Impact of denatured anhydrous ethanol-gasoline fuel blends on a spark-ignition engine. <i>RSC Advances</i> , 2014 , 4, 51220-51227	3.7	14
29	Combustion, performance and emission characteristics of a DI diesel engine fueled with Brassica juncea methyl ester and its blends. <i>RSC Advances</i> , 2014 , 4, 36973-36982	3.7	13
28	A ranking scheme for biodiesel underpinned by critical physicochemical properties. <i>Energy Conversion and Management</i> , 2021 , 229, 113742	10.6	13
27	Performance and Combustion Characteristics Analysis of Multi-Cylinder CI Engine Using Essential Oil Blends. <i>Energies</i> , 2018 , 11, 738	3.1	13
26	Experimental Investigation of Palm-jatropha Combined Blend Properties, Performance, Exhaust Emission and Noise in an Unmodified Diesel Engine. <i>Procedia Engineering</i> , 2014 , 90, 397-402		12
25	Current State and Perspectives on Transesterification of Triglycerides for Biodiesel Production. <i>Catalysts</i> , 2021 , 11, 1121	4	12
24	Techno-Economic Analysis and Physicochemical Properties of Ceiba pentandra as Second-Generation Biodiesel Based on ASTM D6751 and EN 14214. <i>Processes</i> , 2019 , 7, 636	2.9	11
23	Effect of DLC Coating on Tribological Behavior of Cylinder Liner-piston Ring Material Combination When Lubricated with Jatropha Oil. <i>Procedia Engineering</i> , 2014 , 90, 733-739		11
22	Maximising Yield and Engine Efficiency Using Optimised Waste Cooking Oil Biodiesel. <i>Energies</i> , 2020 , 13, 5941	3.1	11
21	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. <i>Energies</i> , 2019 , 12, 3811	3.1	11
20	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. <i>Processes</i> , 2019 , 7, 715	2.9	11
19	Experimental Investigation of Diesel Engine Performance, Combustion and Emissions Using a Novel Series of Dioctyl Phthalate (DOP) Biofuels Derived from Microalgae. <i>Energies</i> , 2019 , 12, 1964	3.1	9
18	State-of-the-Art of Strategies to Reduce Exhaust Emissions from Diesel Engine Vehicles. <i>Energies</i> , 2021 , 14, 1766	3.1	8

17	Heat Transfer Enhancement in an Air Process Heater Using Semi-Circular Hollow Baffles. <i>Procedia Engineering</i> , 2013 , 56, 357-362		6
16	Thermal Balancing of a Multi-Cylinder Diesel Engine Operating on Diesel, B5 and Palm Biodiesel Blends. <i>Journal of Clean Energy Technologies</i> , 2015 , 3, 115-118	0.2	5
15	The effect of diesel fuel sulphur and vanadium on engine performance and emissions. <i>Fuel</i> , 2020 , 261, 116437	7.1	5
14	State-of-the-Art of Establishing Test Procedures for Real Driving Gaseous Emissions from Light- and Heavy-Duty Vehicles. <i>Energies</i> , 2021 , 14, 4195	3.1	5
13	Review on the Use of Essential Oils in Compression Ignition Engines. <i>Energy, Environment, and Sustainability</i> , 2019 , 157-182	0.8	5
12	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105657	6.8	5
11	Comparative evaluation of the effect of sweet orange oil-diesel blend on performance and emissions of a multi-cylinder compression ignition engine 2017 ,		4
10	Effect of Oxygenated Functional Groups in Essential Oils on Diesel Engine Performance, Emissions, and Combustion Characteristics. <i>Energy & Fuels</i> , 2019 , 33, 9828-9834	4.1	4
9	LNG regasification Effects of project stage decisions on capital expenditure and implications for gas pricing. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 78, 103291	4.6	3
8	Comparative evaluation of the blends of gas-to-liquid (GTL) fuels and biodiesels with diesel at high idling conditions: an in-depth analysis on engine performance and environment pollutants. <i>RSC Advances</i> , 2015 , 5, 13068-13077	3.7	3
7	Selection of microalgae strains for sustainable production of aviation biofuel. <i>Bioresource Technology</i> , 2021 , 345, 126408	11	3
6	Potential of Utilization of Renewable Energy Technologies in Gulf Countries. <i>Sustainability</i> , 2021 , 13, 10261	3.6	3
5	Evaluation of a compression ignition engine performance and emission characteristics using diesel-essential oil blends of high orange oil content. <i>Australian Journal of Mechanical Engineering</i> , 2021 , 1-8	1	2
4	Production and investigation of mechanical properties of graphene/polystyrene nano composites. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	2
3	Current Research and Development Status of Corrosion Behavior of Automotive Materials in Biofuels. <i>Energies</i> , 2021 , 14, 1440	3.1	2
2	Experimental investigation of tribological properties of laser textured tungsten doped diamond like carbon coating under dry sliding conditions at various loads. <i>Materials Research Express</i> , 2019 , 6, 106444	1.7	1
1	Assessing Effects of Idling of a Diesel Engine Operated with Optimized Blend of Palm and Mustard Biodiesel 2014 ,		1