

Sm Ashrafur Rahman

List of Publications by Year in descending order

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72
papers

3,933
citations

136940

32
h-index

128286

60
g-index

74
all docs

74
docs citations

74
times ranked

3641
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	11.0	370
2	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	214
3	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.	9.2	213
4	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018, 11, 3115.	3.1	200
5	Phase Change Materials (PCM) for Solar Energy Usages and Storage: An Overview. <i>Energies</i> , 2019, 12, 3167.	3.1	197
6	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.	9.2	154
7	Energy balance of internal combustion engines using alternative fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 26, 20-33.	16.4	150
8	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.	9.3	148
9	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.	9.2	140
10	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.	9.2	125
11	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.	16.4	118
12	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.	9.3	116
13	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.	5.2	105
14	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.	9.3	83
15	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.	7.5	79
16	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.	16.4	78
17	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	76
18	Energy scenario and biofuel policies and targets in ASEAN countries. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 46, 51-61.	16.4	73

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19	Potential of biodiesel as a renewable energy source in Bangladesh. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 819-834.	16.4	64
20	Assessing idling effects on a compression ignition engine fueled with Jatropha and Palm biodiesel blends. <i>Renewable Energy</i> , 2014, 68, 644-650.	8.9	55
21	Current State and Perspectives on Transesterification of Triglycerides for Biodiesel Production. <i>Catalysts</i> , 2021, 11, 1121.	3.5	53
22	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.	9.3	52
23	Fuel properties and emission characteristics of essential oil blends in a compression ignition engine. <i>Fuel</i> , 2019, 238, 440-453.	6.4	51
24	Assessment of emission and performance of compression ignition engine with varying injection timing. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 221-230.	16.4	50
25	LNG Regasification Terminals: The Role of Geography and Meteorology on Technology Choices. <i>Energies</i> , 2017, 10, 2152.	3.1	50
26	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.	9.3	47
27	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.	0.5	46
28	The impact of chemical composition of oxygenated fuels on morphology and nanostructure of soot particles. <i>Fuel</i> , 2020, 259, 116167.	6.4	46
29	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.	9.2	45
30	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.	16.4	41
31	Potential of Rice Industry Biomass as a Renewable Energy Source. <i>Energies</i> , 2019, 12, 4116.	3.1	38
32	Performance and Emission Parameters of Homogeneous Charge Compression Ignition (HCCI) Engine: A Review. <i>Energies</i> , 2019, 12, 3557.	3.1	37
33	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.	8.9	35
34	Energy-Related CO2 Emissions Growth in ASEAN Countries: Trends, Drivers and Policy Implications. <i>Energies</i> , 2019, 12, 4650.	3.1	29
35	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.	5.1	28
36	Relationship between Weather Variables and New Daily COVID-19 Cases in Dhaka, Bangladesh. <i>Sustainability</i> , 2020, 12, 8319.	3.2	28

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37	A ranking scheme for biodiesel underpinned by critical physicochemical properties. <i>Energy Conversion and Management</i> , 2021, 229, 113742.	9.2	28
38	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.	9.3	24
39	Selection of microalgae strains for sustainable production of aviation biofuel. <i>Bioresource Technology</i> , 2022, 345, 126408.	9.6	24
40	Optimization of Cerbera manghas Biodiesel Production Using Artificial Neural Networks Integrated with Ant Colony Optimization. <i>Energies</i> , 2019, 12, 3811.	3.1	22
41	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.	7.5	21
42	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.	8.8	21
43	The effect of diesel fuel sulphur and vanadium on engine performance and emissions. <i>Fuel</i> , 2020, 261, 116437.	6.4	21
44	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, 13246-13255.	3.6	20
45	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.	2.8	20
46	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	20
47	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.	5.1	20
48	Maximising Yield and Engine Efficiency Using Optimised Waste Cooking Oil Biodiesel. <i>Energies</i> , 2020, 13, 5941.	3.1	19
49	Effect of DLC Coating on Tribological Behavior of Cylinder Liner-piston Ring Material Combination When Lubricated with Jatropa Oil. <i>Procedia Engineering</i> , 2014, 90, 733-739.	1.2	18
50	Performance and Combustion Characteristics Analysis of Multi-Cylinder CI Engine Using Essential Oil Blends. <i>Energies</i> , 2018, 11, 738.	3.1	18
51	Potential of Utilization of Renewable Energy Technologies in Gulf Countries. <i>Sustainability</i> , 2021, 13, 10261.	3.2	18
52	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.	1.2	17
53	State-of-the-Art of Strategies to Reduce Exhaust Emissions from Diesel Engine Vehicles. <i>Energies</i> , 2021, 14, 1766.	3.1	17
54	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	17

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55	Impact of denatured anhydrous ethanolâ€“gasoline fuel blends on a spark-ignition engine. RSC Advances, 2014, 4, 51220-51227.	3.6	15
56	Bioenergy recovery potential through the treatment of the meat processing industry waste in Australia. Journal of Environmental Chemical Engineering, 2021, 9, 105657.	6.7	15
57	Combustion, performance and emission characteristics of a DI diesel engine fueled with Brassica juncea methyl ester and its blends. RSC Advances, 2014, 4, 36973-36982.	3.6	14
58	Production Process and Optimization of Solid Bioethanol from Empty Fruit Bunches of Palm Oil Using Response Surface Methodology. Processes, 2019, 7, 715.	2.8	14
59	Production and investigation of mechanical properties of graphene/polystyrene nano composites. Journal of Polymer Research, 2021, 28, 1.	2.4	13
60	Heat Transfer Enhancement in an Air Process Heater Using Semi-Circular Hollow Baffles. Procedia Engineering, 2013, 56, 357-362.	1.2	9
61	Review on the Use of Essential Oils in Compression Ignition Engines. Energy, Environment, and Sustainability, 2019, , 157-182.	1.0	9
62	Effect of Oxygenated Functional Groups in Essential Oils on Diesel Engine Performance, Emissions, and Combustion Characteristics. Energy & Fuels, 2019, 33, 9828-9834.	5.1	8
63	Current Research and Development Status of Corrosion Behavior of Automotive Materials in Biofuels. Energies, 2021, 14, 1440.	3.1	7
64	Thermal Balancing of a Multi-Cylinder Diesel Engine Operating on Diesel, B5 and Palm Biodiesel Blends. Journal of Clean Energy Technologies, 2015, 3, 115-118.	0.1	7
65	Experimental investigation of tribological properties of laser textured tungsten doped diamond like carbon coating under dry sliding conditions at various loads. Materials Research Express, 2019, 6, 106444.	1.6	6
66	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. RSC Advances, 2015, 5, 13068-13077.	3.6	5
67	Comparative evaluation of the effect of sweet orange oil-diesel blend on performance and emissions of a multi-cylinder compression ignition engine. AIP Conference Proceedings, 2017, , .	0.4	4
68	LNG regasification â€“ Effects of project stage decisions on capital expenditure and implications for gas pricing. Journal of Natural Gas Science and Engineering, 2020, 78, 103291.	4.4	4
69	Evaluation of a compression ignition engine performance and emission characteristics using diesel-essential oil blends of high orange oil content. Australian Journal of Mechanical Engineering, 0, , 1-8.	2.1	2
70	Assessing Effects of Idling of a Diesel Engine Operated with Optimized Blend of Palm and Mustard Biodiesel. , 0, , .		1
71	Assessing Effect of Idling on Compression Ignition Engine Operated with Palm, Jatropha and Calophyllum Biodiesel Blends. Journal of the Institute of Industrial Applications Engineers, 2014, 2, 122-126.	0.2	0
72	A Method to Select Microalgae Strains for Sustainable Aviation Fuel Production. SSRN Electronic Journal, 0, , .	0.4	0