

# Bijan Kumar Mandal

## List of Publications by Year in descending order

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47  
papers

1,045  
citations

567281

15  
h-index

414414

32  
g-index

47  
all docs

47  
docs citations

47  
times ranked

934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of water-emulsified diesel preparation and comparison of mechanical homogenization and ultrasonic dispersion methods to study CI engine performances. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 6566-6595.	2.3	11
2	Thermoeconomic Analysis of Vapor Compression Refrigeration System With Dedicated Subcooler for High-Temperature Lift Applications. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	4
3	Thermo-economic analysis and multi-objective optimization of vapour cascade refrigeration system using different refrigerant combinations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3247-3261.	3.6	45
4	Numerical study using expander on the thermo-economic performances of cascade refrigeration system. <i>International Journal of Ambient Energy</i> , 2020, , 1-11.	2.5	0
5	Exergy and Cost Optimization of a Two-Stage Refrigeration System Using Refrigerant R32 and R410A. <i>Journal of Thermal Science and Engineering Applications</i> , 2020, 12, .	1.5	11
6	Advancements in reverse osmosis technology and economic prospects of desalination. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
7	Energetic and exergetic performance comparison of cascade refrigeration system using R170-R161 and R41-R404A as refrigerant pairs. <i>Heat and Mass Transfer</i> , 2019, 55, 723-731.	2.1	23
8	A Review on Energy and Exergy Analysis of Two-Stage Vapour Compression Refrigeration System. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2019, 27, 1930001.	0.7	19
9	A comparative study on the performance and emissions from a CI engine fuelled with water emulsified diesel prepared by mechanical homogenization and ultrasonic dispersion method. <i>Energy Reports</i> , 2019, 5, 639-648.	5.1	27
10	A Transient Study on the Development of Temperature Field and Soot under Reduced Gravity in a Methane Air Diffusion Flame. <i>Microgravity Science and Technology</i> , 2019, 31, 13-29.	1.4	1
11	A comprehensive review on the feasibility of using water emulsified diesel as a CI engine fuel. <i>Fuel</i> , 2019, 237, 937-960.	6.4	68
12	EXPERIMENTAL INVESTIGATION ON HEAT TRANSFER AUGMENTATION IN HORIZONTAL TUBE USING COILED WIRE INSERTS. <i>Journal of Enhanced Heat Transfer</i> , 2019, 26, 513-534.	1.1	0
13	Exergy analysis of cascade refrigeration system working with refrigerant pairs R41-R404A and R41-R161. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 377, 012036.	0.6	8
14	The Use of Natural Refrigerants in Refrigeration and Air Conditioning Systems: A Review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 377, 012064.	0.6	16
15	Experimental investigation on the combustion, performance and emission characteristics of a diesel engine using water emulsified diesel prepared by ultrasonication. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	12
16	Experimental investigation on the use of water emulsified diesel in a single cylinder Compression Ignition engine. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 377, 012123.	0.6	10
17	Numerical prediction of the performance, combustion and emission characteristics of a CI engine using different biodiesels. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 1773-1790.	4.1	7
18	A numerical study on the performance, combustion and emission parameters of a compression ignition engine fuelled with diesel, palm stearin biodiesel and alcohol blends. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 157-173.	4.1	21

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19	An experimental investigation on the performance, combustion and emission characteristics of a variable compression ratio diesel engine using diesel and palm stearin methyl ester. Clean Technologies and Environmental Policy, 2017, 19, 1297-1312.	4.1	26
20	Engine performance, combustion and emission characteristics of a compression ignition engine operating on different biodiesel-alcohol blends. Energy, 2017, 125, 470-483.	8.8	112
21	Thermodynamic Analysis of Modified Vapour Compression Refrigeration System Using R-134a. Energy Procedia, 2017, 109, 227-234.	1.8	8
22	Numerical Simulation of Transient Development of Flame, Temperature and Velocity under Reduced Gravity in a Methane Air Diffusion Flame. Microgravity Science and Technology, 2017, 29, 151-175.	1.4	4
23	Effect of alcohol addition to diesel on engine performance, combustion and emission characteristics of a CI engine. , 2017, , .		2
24	Thermodynamic analysis of a vapour compression refrigeration system integrated with a subcooler cycle. International Journal of Renewable Energy Technology, 2017, 8, 334.	0.3	2
25	A computational study of radiation and gravity effect on temperature and soot formation in a methane air co-flow diffusion flame. AIP Conference Proceedings, 2016, , .	0.4	0
26	Effect of compression ratio on the performance, combustion and emission from a diesel engine using palm biodiesel. AIP Conference Proceedings, 2016, , .	0.4	8
27	Numerical investigation of the performance and emission parameters of a diesel engine fuelled with diesel - biodiesel - methanol blends. Journal of Mechanical Science and Technology, 2016, 30, 1923-1929.	1.5	23
28	Numerical investigation on the effects of EGR on CI engine characteristics using soyabean biodiesel. AIP Conference Proceedings, 2016, , .	0.4	0
29	Impact of alcohol addition to diesel on the performance combustion and emissions of a compression ignition engine. Applied Thermal Engineering, 2016, 98, 670-682.	6.0	132
30	A Computational Study of Soot Formation in Methane Air Co-Flow Diffusion Flame Under Microgravity Conditions. Microgravity Science and Technology, 2016, 28, 395-412.	1.4	4
31	A comprehensive review of biodiesel as an alternative fuel for compression ignition engine. Renewable and Sustainable Energy Reviews, 2016, 57, 799-821.	16.4	219
32	Radiation effect on temperature distribution and NO formation in a diffusion flame under reduced gravity conditions. Heat and Mass Transfer, 2016, 52, 227-243.	2.1	3
33	Effect of injection timing on the performance and emission characteristics of a CI engine using diesel and methyl soyate. Biofuels, 2015, 6, 283-290.	2.4	7
34	Numerical Prediction of Radiation and Air Preheating Effects on the Soot Formation in a Confined Laminar Co-Flow Diffusion Flame. International Journal of Thermodynamics, 2015, 18, 1.	1.0	0
35	Use of Jatropha Biodiesel as a Future Sustainable Fuel. Energy Technology & Policy, 2014, 1, 8-14.	1.1	50
36	An Experimental and Numerical Investigation of the Performance, Combustion and Emission Characteristics of a Diesel Engine Fueled with Jatropha Biodiesel. Energy Procedia, 2014, 54, 455-467.	1.8	86

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37	An experimental study on the performance and emission characteristics of a CI engine fuelled with Jatropha biodiesel and its blends with diesel. Journal of Mechanical Science and Technology, 2014, 28, 1961-1966.	1.5	40
38	Production, Performance and Emissions of Biodiesel as Compression Ignition Engine Fuel. , 2013, , .		1
39	Computational Study of Fuel Dilution Effect on the Soot Formation in Methane-Air Laminar Confined Diffusion Flame. , 2013, , .		0
40	NUMERICAL STUDY OF RADIATION AND AIRPREHEATING EFFECT ON THE VELOCITY, TEMPERATURE, AND SPECIES DISTRIBUTION IN A CONFINED LAMINAR COFLOW DIFFUSION FLAME. Computational Thermal Sciences, 2013, 5, 425-440.	0.9	1
41	NUMERICAL SIMULATION OF LAMINAR DIFFUSION FLAME WITH FINITE RATE CHEMISTRY AND VARIABLE PROPERTY FORMULATION. Computational Thermal Sciences, 2012, 4, 67-76.	0.9	0
42	Environmental impact of using biodiesel as fuel in transportation: a review. International Journal of Global Warming, 2011, 3, 232.	0.5	24
43	Transient Development of Flame and Soot Distribution in Laminar Diffusion Flame With Preheated Air. Journal of Engineering for Gas Turbines and Power, 2009, 131, .	1.1	5
44	An Experimental Study on the Performance and Emission Characteristics of Jatropha Biodiesel Fuelled CI Engine. , 2009, , .		1
45	Analysis of a Combined Power and Refrigeration Cycle Working on Solar Energy. , 2008, , .		0
46	Performance and Emission Characteristics of Bio-Diesel as an Alternative Diesel Engine Fuel. , 2008, , .		0
47	Transient development of methane-air diffusion flame in a confined geometry with and without air-preheat. International Journal of Energy Research, 2005, 29, 145-176.	4.5	4