

Manosh C Paul

List of Publications by Year in descending order

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85
papers

2,006
citations

218677

26
h-index

289244

40
g-index

89
all docs

89
docs citations

89
times ranked

1981
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the unsteady thermal response of a Li-ion battery pack to dynamic loads. <i>Energy</i> , 2021, 231, 120947.	8.8	95
2	LES of non-Newtonian physiological blood flow in a model of arterial stenosis. <i>Medical Engineering and Physics</i> , 2012, 34, 1079-1087.	1.7	83
3	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6433-6437.	13.8	81
4	Feasibility of a Photovoltaic-Thermoelectric Generator: Performance Analysis and Simulation Results. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1158-1169.	4.7	72
5	Numerical analysis of the heat transfer behaviour of water based Al ₂ O ₃ and TiO ₂ nanofluids in a circular pipe under the turbulent flow condition. <i>International Communications in Heat and Mass Transfer</i> , 2014, 56, 96-108.	5.6	65
6	Chlorine-Enabled Electron Doping in Solution-Synthesized SnSe Thermoelectric Nanomaterials. <i>Advanced Energy Materials</i> , 2017, 7, 1602328.	19.5	64
7	Concentrated solar thermochemical gasification of biomass: Principles, applications, and development. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111484.	16.4	64
8	Large-Eddy simulation of pulsatile blood flow. <i>Medical Engineering and Physics</i> , 2009, 31, 153-159.	1.7	60
9	High performance, microarchitected, compact heat exchanger enabled by 3D printing. <i>Applied Thermal Engineering</i> , 2022, 210, 118339.	6.0	59
10	Prediction of high-temperature rapid combustion behaviour of woody biomass particles. <i>Fuel</i> , 2016, 165, 205-214.	6.4	58
11	Assessing biomass steam gasification technologies using a multi-purpose model. <i>Energy Conversion and Management</i> , 2016, 129, 216-226.	9.2	57
12	Investigation of spiral blood flow in a model of arterial stenosis. <i>Medical Engineering and Physics</i> , 2009, 31, 1195-1203.	1.7	52
13	Natural convection flow from an isothermal horizontal circular cylinder in presence of heat generation. <i>International Journal of Engineering Science</i> , 2006, 44, 949-958.	5.0	51
14	Combination of DOM with LES in a gas turbine combustor. <i>International Journal of Engineering Science</i> , 2005, 43, 379-397.	5.0	50
15	An integrated kinetic model for downdraft gasifier based on a novel approach that optimises the reduction zone of gasifier. <i>Biomass and Bioenergy</i> , 2018, 109, 172-181.	5.7	50
16	CFD modelling of biomass gasification with a volatile break-up approach. <i>Chemical Engineering Science</i> , 2019, 195, 413-422.	3.8	48
17	Characterization of biomass combustion at high temperatures based on an upgraded single particle model. <i>Applied Energy</i> , 2015, 156, 749-755.	10.1	45
18	Studies of Ignition Behavior of Biomass Particles in a Down-Fire Reactor for Improving Co-firing Performance. <i>Energy & Fuels</i> , 2016, 30, 5870-5877.	5.1	40

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19	Liquid cooling of non-uniform heat flux of a chip circuit by subchannels. Applied Thermal Engineering, 2017, 115, 558-574.	6.0	36
20	State prediction of an entropy wave advecting through a turbulent channel flow. Journal of Fluid Mechanics, 2020, 882, .	3.4	36
21	Investigation of coal particle gasification processes with application leading to underground coal gasification. Fuel, 2019, 237, 1186-1202.	6.4	32
22	Investigation of physiological pulsatile flow in a model arterial stenosis using large-eddy and direct numerical simulations. Applied Mathematical Modelling, 2012, 36, 4393-4413.	4.2	31
23	Effect of mounting geometry on convection occurring under a photovoltaic panel and the corresponding efficiency using CFD. Solar Energy, 2011, 85, 2540-2550.	6.1	30
24	Heat transfer and entropy generation of turbulent forced convection flow of nanofluids in a heated pipe. International Communications in Heat and Mass Transfer, 2015, 61, 26-36.	5.6	30
25	The evolution and formation of tar species in a downdraft gasifier: Numerical modelling and experimental validation. Biomass and Bioenergy, 2019, 130, 105377.	5.7	29
26	Radiative heat transfer during turbulent combustion process. International Communications in Heat and Mass Transfer, 2010, 37, 1-6.	5.6	28
27	Sensitivity analysis of homogeneous reactions for thermochemical conversion of biomass in a downdraft gasifier. Renewable Energy, 2020, 151, 332-341.	8.9	28
28	Pulsatile spiral blood flow through arterial stenosis. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1727-1737.	1.6	26
29	Numerical investigation of the heterogeneous combustion processes of solid fuels. Fuel, 2015, 141, 236-249.	6.4	25
30	A coupled optical-thermal-electrical model to predict the performance of hybrid PV/T-CCPC roof-top systems. Renewable Energy, 2017, 112, 166-186.	8.9	25
31	Numerical investigation of heat transfer and fluid flow of water through a circular tube induced with divers' tape inserts. Applied Thermal Engineering, 2016, 98, 157-168.	6.0	24
32	Energy, exergy, and economic ($3E$) evaluation of a CCHP system with biomass gasifier, solid oxide fuel cells, micro-gas turbine, and absorption chiller. International Journal of Energy Research, 2021, 45, 15182-15199.	4.5	24
33	A novel absorptive/reflective solar concentrator for heat and electricity generation: An optical and thermal analysis. Energy Conversion and Management, 2016, 114, 142-153.	9.2	23
34	Investigating the thermochemical conversion of biomass in a downdraft gasifier with a volatile break-up approach. Energy Procedia, 2017, 142, 822-828.	1.8	22
35	Multiphysics Simulations of a Thermoelectric Generator. Energy Procedia, 2015, 75, 633-638.	1.8	21
36	Investigation of the characteristics of nanofluids flow and heat transfer in a pipe using a single phase model. International Communications in Heat and Mass Transfer, 2018, 93, 48-59.	5.6	21

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37	Large Eddy Simulation of Pulsatile Flow through a Channel with Double Constriction. <i>Fluids</i> , 2017, 2, 1.	1.7	20
38	Effect of width and temperature of a vertical parallel plate channel on the transition of the developing thermal boundary layer. <i>International Journal of Heat and Mass Transfer</i> , 2013, 63, 20-30.	4.8	19
39	Effects of thermocouple electrical insulation on the measurement of surface temperature. <i>Applied Thermal Engineering</i> , 2015, 89, 421-431.	6.0	19
40	Transition of free convection flow inside an inclined parallel walled channel: Effects of inclination angle and width of the channel. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 194-202.	4.8	17
41	Ba ₆ ~ ³ x Nd ₈ + ₂ x Ti ₁₈ O ₅₄ Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. <i>Journal of Electronic Materials</i> , 2016, 45, 1894-1899.	2.2	17
42	Combustion Characteristics and Pollutant Emissions in Transient Oxy-Combustion of a Single Biomass Particle: A Numerical Study. <i>Energy & Fuels</i> , 2019, 33, 1556-1569.	5.1	17
43	A numerical investigation of CO ₂ gasification of biomass particles- analysis of energy, exergy and entropy generation. <i>Energy</i> , 2021, 228, 120615.	8.8	17
44	Transition of free convection flow between two isothermal vertical plates. <i>International Journal of Heat and Mass Transfer</i> , 2014, 76, 307-316.	4.8	14
45	Numerical modelling of unsteady transport and entropy generation in oxy-combustion of single coal particles with varying flow velocities and oxygen concentrations. <i>Applied Thermal Engineering</i> , 2018, 144, 147-164.	6.0	13
46	LES of additive and non-additive pulsatile flows in a model arterial stenosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 105-120.	1.6	12
47	A computational study on spiral blood flow in stenosed arteries with and without an upstream curved section. <i>Applied Mathematical Modelling</i> , 2015, 39, 4746-4766.	4.2	12
48	Automated Advanced Calibration and Optimization of Thermochemical Models Applied to Biomass Gasification and Pyrolysis. <i>Energy & Fuels</i> , 2018, 32, 10144-10153.	5.1	12
49	Syngas Production and Combined Heat and Power from Scottish Agricultural Waste Gasificationâ€”A Computational Study. <i>Sustainability</i> , 2022, 14, 3745.	3.2	12
50	Advanced Numerical Methods for the Assessment of Integrated Gasification and CHP Generation Technologies. <i>Energy, Environment, and Sustainability</i> , 2018, , 307-330.	1.0	11
51	Techno-economic feasibility of distributed waste-to-hydrogen systems to support green transport in Glasgow. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13532-13551.	7.1	11
52	Large eddy simulation of transition of free convection flow over an inclined upward facing heated plate. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 330-340.	5.6	10
53	Coupled Simulation of Performance of a Crossed Compound Parabolic Concentrator with Solar Cell. <i>Energy Procedia</i> , 2015, 75, 325-330.	1.8	10
54	Gas-phase transport and entropy generation during transient combustion of single biomass particle in varying oxygen and nitrogen atmospheres. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8506-8523.	7.1	10

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55	The influence of higher order effects on the linear wave instability of vertical free convective boundary layer flow. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 809-817.	4.8	9
56	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. <i>Angewandte Chemie</i> , 2016, 128, 6543-6547.	2.0	9
57	Transition of nanofluids flow in an inclined heated pipe. <i>International Communications in Heat and Mass Transfer</i> , 2017, 82, 49-62.	5.6	9
58	Effects of fuel compositions on the heat generation and emission of syngas/producer gas laminar diffusion flame. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18505-18516.	7.1	9
59	Comprehensive Kinetic Modeling Study of CO ₂ Gasification of Char Derived from Food Waste. <i>Energy & Fuels</i> , 2020, 34, 1883-1895.	5.1	9
60	Numerical Investigation of the Linear Stability of a Free Convection Boundary Layer Flow Using a Thermal Disturbance With a Slowly Increasing Frequency. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	8
61	Large Eddy Simulation of a turbulent non-premixed propane-air reacting flame in a cylindrical combustor. <i>Computers and Fluids</i> , 2010, 39, 1832-1847.	2.5	8
62	Effects of content of hydrogen on the characteristics of co-flow laminar diffusion flame of hydrogen/nitrogen mixture in various flow conditions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3015-3033.	7.1	8
63	Effect of syngas fuel compositions on the occurrence of instability of laminar diffusion flame. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7573-7588.	7.1	8
64	Thermal receptivity of free convective flow from a heated vertical surface: Linear waves. <i>International Journal of Thermal Sciences</i> , 2008, 47, 1382-1392.	4.9	7
65	Role of contrast media viscosity in altering vessel wall shear stress and relation to the risk of contrast extravasations. <i>Medical Engineering and Physics</i> , 2016, 38, 1426-1433.	1.7	7
66	Image-based computational fluid dynamics for estimating pressure drop and fractional flow reserve across iliac artery stenosis: A comparison with in vivo measurements. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3427.	2.1	7
67	The influence of higher order effects on the vortex instability of thermal boundary layer flow in a wedge-shaped domain. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 1417-1424.	4.8	6
68	Combustion Modelling of Pulverized Biomass Particles at High Temperatures. <i>Energy Procedia</i> , 2015, 66, 273-276.	1.8	6
69	CFD Investigation of the Impacts of Variation in Geometry of Twisted Tape on Heat Transfer and Flow Characteristics of Water in Tubes. <i>Heat Transfer - Asian Research</i> , 2016, 45, 482-498.	2.8	6
70	Performance of the Various Sn Approximations of DOM in a 3D Combustion Chamber. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	5
71	Analysis of Heat Transfer and Entropy Generation of TiO ₂ -Water Nanofluid Flow in a Pipe under Transition. <i>Procedia Engineering</i> , 2015, 105, 381-387.	1.2	5
72	Scalable solar thermoelectrics and photovoltaics (SUNTRAP). <i>AIP Conference Proceedings</i> , 2016, , .	0.4	5

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73	Utilization of H ₂ O and CO ₂ in Coal Particle Gasification with an Impact of Temperature and Particle Size. Energy & Fuels, 2020, 34, 12841-12852.	5.1	5
74	Study of mixed convection flow of power-law fluids in a skewed lid-driven cavity. Heat Transfer, 2021, 50, 6328-6357.	3.0	5
75	Integrated Sustainable Energy for Sub-Saharan Africa: A Case Study of Machinga Boma in Malawi. Energies, 2021, 14, 6330.	3.1	5
76	Simulation of haemodynamic flow in head and neck cancer chemotherapy. BioMedical Engineering OnLine, 2011, 10, 104.	2.7	4
77	Numerical Study of the Effects of CO ₂ Addition in Single Coal Particle Gasification. Energy Procedia, 2017, 142, 1306-1311.	1.8	4
78	PHYSIOLOGICAL FLOW IN A MODEL OF ARTERIAL STENOSIS. Journal of Biomechanics, 2008, 41, S243.	2.1	3
79	Outdoor performance of a reflective type 3D LCPV system under different climatic conditions. AIP Conference Proceedings, 2017, . .	0.4	3
80	Investigation of thermochemical process of coal particle packed bed reactions for the development of UCG. International Journal of Coal Science and Technology, 2020, 7, 476-492.	6.0	3
81	On the effects of high-order scattering in 3D cubical and rectangular furnaces. Heat and Mass Transfer, 2008, 44, 1337-1344.	2.1	1
82	Thermocouple heating impact on the temperature measurement of small volume of water in a cooling system. Applied Thermal Engineering, 2017, 127, 650-661.	6.0	1
83	Research on Hybrid Solar Photovoltaic/Thermal (PV/T) System. Energies, 2022, 15, 886.	3.1	1
84	Modeling Validation of Tubing Compaction for Rigless Well Plug and Abandonment. SPE Drilling and Completion, 2021, 36, 101-117.	1.6	0
85	Analytical and Numerical Investigations of Physical Dimensions of Natural Convection Flow on a Vertical Heated Plate. International Journal of Fluid Mechanics Research, 2014, 41, 353-367.	0.4	0