

# 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	Research on Hybrid Solar Photovoltaic/Thermal (PV/T) System. <i>Energies</i> , 2022, 15, 886.	3.1	1
2	Syngas Production and Combined Heat and Power from Scottish Agricultural Waste Gasification—A Computational Study. <i>Sustainability</i> , 2022, 14, 3745.	3.2	12
3	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
4	High performance, microarchitected, compact heat exchanger enabled by 3D printing. <i>Applied Thermal Engineering</i> , 2022, 210, 118339.	6.0	59
5	Modeling Validation of Tubing Compaction for Rigless Well Plug and Abandonment. <i>SPE Drilling and Completion</i> , 2021, 36, 101-117.	1.6	0
6	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
7	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
8	Energy, exergy, and economic ( $3E$ ) evaluation of a CCHP system with biomass gasifier, solid oxide fuel cells, micro-gas turbine, and absorption chiller. <i>International Journal of Energy Research</i> , 2021, 45, 15182-15199.	4.5	24
9	Study of mixed convection flow of power-law fluids in a skewed lid-driven cavity. <i>Heat Transfer</i> , 2021, 50, 6328-6357.	3.0	5
10	A numerical investigation of CO <sub>2</sub> gasification of biomass particles- analysis of energy, exergy and entropy generation. <i>Energy</i> , 2021, 228, 120615.	8.8	17
11	Analysis of the unsteady thermal response of a Li-ion battery pack to dynamic loads. <i>Energy</i> , 2021, 231, 120947.	8.8	95
12	Concentrated solar thermochemical gasification of biomass: Principles, applications, and development. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111484.	16.4	64
13	Integrated Sustainable Energy for Sub-Saharan Africa: A Case Study of Machinga Boma in Malawi. <i>Energies</i> , 2021, 14, 6330.	3.1	5
14	State prediction of an entropy wave advecting through a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	3.4	36
15	Sensitivity analysis of homogeneous reactions for thermochemical conversion of biomass in a downdraft gasifier. <i>Renewable Energy</i> , 2020, 151, 332-341.	8.9	28
16	Utilization of H <sub>2</sub> O and CO <sub>2</sub> in Coal Particle Gasification with an Impact of Temperature and Particle Size. <i>Energy &amp; Fuels</i> , 2020, 34, 12841-12852.	5.1	5
17	Investigation of thermochemical process of coal particle packed bed reactions for the development of UCC. <i>International Journal of Coal Science and Technology</i> , 2020, 7, 476-492.	6.0	3
18	Comprehensive Kinetic Modeling Study of CO <sub>2</sub> Gasification of Char Derived from Food Waste. <i>Energy &amp; Fuels</i> , 2020, 34, 1883-1895.	5.1	9

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19	The evolution and formation of tar species in a downdraft gasifier: Numerical modelling and experimental validation. <i>Biomass and Bioenergy</i> , 2019, 130, 105377.	5.7	29
20	Combustion Characteristics and Pollutant Emissions in Transient Oxy-Combustion of a Single Biomass Particle: A Numerical Study. <i>Energy &amp; Fuels</i> , 2019, 33, 1556-1569.	5.1	17
21	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
22	Investigation of coal particle gasification processes with application leading to underground coal gasification. <i>Fuel</i> , 2019, 237, 1186-1202.	6.4	32
23	CFD modelling of biomass gasification with a volatile break-up approach. <i>Chemical Engineering Science</i> , 2019, 195, 413-422.	3.8	48
24	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
25	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
26	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
27	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
28	Investigation of the characteristics of nanofluids flow and heat transfer in a pipe using a single phase model. <i>International Communications in Heat and Mass Transfer</i> , 2018, 93, 48-59.	5.6	21
29	Automated Advanced Calibration and Optimization of Thermochemical Models Applied to Biomass Gasification and Pyrolysis. <i>Energy &amp; Fuels</i> , 2018, 32, 10144-10153.	5.1	12
30	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
31	Liquid cooling of non-uniform heat flux of a chip circuit by subchannels. <i>Applied Thermal Engineering</i> , 2017, 115, 558-574.	6.0	36
32	Chlorine-Enabled Electron Doping in Solution-Synthesized SnSe Thermoelectric Nanomaterials. <i>Advanced Energy Materials</i> , 2017, 7, 1602328.	19.5	64
33	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
34	A coupled optical-thermal-electrical model to predict the performance of hybrid PV/T-CCPC roof-top systems. <i>Renewable Energy</i> , 2017, 112, 166-186.	8.9	25
35	Outdoor performance of a reflective type 3D LCPV system under different climatic conditions. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
36	Thermocouple heating impact on the temperature measurement of small volume of water in a cooling system. <i>Applied Thermal Engineering</i> , 2017, 127, 650-661.	6.0	1

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37	Numerical Study of the Effects of CO <sub>2</sub> Addition in Single Coal Particle Gasification. Energy Procedia, 2017, 142, 1306-1311.	1.8	4
38	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
39	Large Eddy Simulation of Pulsatile Flow through a Channel with Double Constriction. Fluids, 2017, 2, 1.	1.7	20
40	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie, 2016, 128, 6543-6547.	2.0	9
41	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie - International Edition, 2016, 55, 6433-6437.	13.8	81
42	CFD Investigation of the Impacts of Variation in Geometry of Twisted Tape on Heat Transfer and Flow Characteristics of Water in Tubes. Heat Transfer - Asian Research, 2016, 45, 482-498.	2.8	6
43	Scalable solar thermoelectrics and photovoltaics (SUNTRAP). AIP Conference Proceedings, 2016, , .	0.4	5
44	Role of contrast media viscosity in altering vessel wall shear stress and relation to the risk of contrast extravasations. Medical Engineering and Physics, 2016, 38, 1426-1433.	1.7	7
45	Assessing biomass steam gasification technologies using a multi-purpose model. Energy Conversion and Management, 2016, 129, 216-226.	9.2	57
46	Ba <sub>0.3</sub> Nd <sub>0.8</sub> Ti <sub>1.8</sub> O <sub>5.4</sub> Tungsten Bronze: A New High-Temperature n-Type Oxide Thermoelectric. Journal of Electronic Materials, 2016, 45, 1894-1899.	2.2	17
47	Studies of Ignition Behavior of Biomass Particles in a Down-Fire Reactor for Improving Co-firing Performance. Energy & Fuels, 2016, 30, 5870-5877.	5.1	40
48	Prediction of high-temperature rapid combustion behaviour of woody biomass particles. Fuel, 2016, 165, 205-214.	6.4	58
49	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
50	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
51	Combustion Modelling of Pulverized Biomass Particles at High Temperatures. Energy Procedia, 2015, 66, 273-276.	1.8	6
52	Multiphysics Simulations of a Thermoelectric Generator. Energy Procedia, 2015, 75, 633-638.	1.8	21
53	Analysis of Heat Transfer and Entropy Generation of TiO <sub>2</sub> -Water Nanofluid Flow in a Pipe under Transition. Procedia Engineering, 2015, 105, 381-387.	1.2	5
54	Effects of thermocouple electrical insulation on the measurement of surface temperature. Applied Thermal Engineering, 2015, 89, 421-431.	6.0	19

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55	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
56	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
57	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
58	Coupled Simulation of Performance of a Crossed Compound Parabolic Concentrator with Solar Cell. <i>Energy Procedia</i> , 2015, 75, 325-330.	1.8	10
59	Heat transfer and entropy generation of turbulent forced convection flow of nanofluids in a heated pipe. <i>International Communications in Heat and Mass Transfer</i> , 2015, 61, 26-36.	5.6	30
60	Numerical investigation of the heterogeneous combustion processes of solid fuels. <i>Fuel</i> , 2015, 141, 236-249.	6.4	25
61	Pulsatile spiral blood flow through arterial stenosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1727-1737.	1.6	26
62	Numerical analysis of the heat transfer behaviour of water based Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> 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
63	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
64	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
65	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
66	Analytical and Numerical Investigations of Physical Dimensions of Natural Convection Flow on a Vertical Heated Plate. <i>International Journal of Fluid Mechanics Research</i> , 2014, 41, 353-367.	0.4	0
67	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
68	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
69	Investigation of physiological pulsatile flow in a model arterial stenosis using large-eddy and direct numerical simulations. <i>Applied Mathematical Modelling</i> , 2012, 36, 4393-4413.	4.2	31
70	Effect of mounting geometry on convection occurring under a photovoltaic panel and the corresponding efficiency using CFD. <i>Solar Energy</i> , 2011, 85, 2540-2550.	6.1	30
71	Simulation of haemodynamic flow in head and neck cancer chemotherapy. <i>BioMedical Engineering OnLine</i> , 2011, 10, 104.	2.7	4
72	Radiative heat transfer during turbulent combustion process. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 1-6.	5.6	28

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73	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
74	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
75	Large Eddy simulation of pulsatile blood flow. <i>Medical Engineering and Physics</i> , 2009, 31, 153-159.	1.7	60
76	Investigation of spiral blood flow in a model of arterial stenosis. <i>Medical Engineering and Physics</i> , 2009, 31, 1195-1203.	1.7	52
77	On the effects of high-order scattering in 3D cubical and rectangular furnaces. <i>Heat and Mass Transfer</i> , 2008, 44, 1337-1344.	2.1	1
78	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
79	PHYSIOLOGICAL FLOW IN A MODEL OF ARTERIAL STENOSIS. <i>Journal of Biomechanics</i> , 2008, 41, S243.	2.1	3
80	Performance of the Various Sn Approximations of DOM in a 3D Combustion Chamber. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	5
81	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
82	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
83	Combination of DOM with LES in a gas turbine combustor. <i>International Journal of Engineering Science</i> , 2005, 43, 379-397.	5.0	50
84	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
85	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