Mamdud Hossain

List of Publications by Year in descending order

39 papers	565 citations	686830 13 h-index	642321 23 g-index
44 all docs	44 docs citations	44 times ranked	551 citing authors

#	Article	IF	Citations
1	Mathematical model for heat transfer during laser material processing. Advances in Industrial and Manufacturing Engineering, 2022, 5, 100087.	1.2	1
2	Modeling aerosol cloud aerodynamics during human coughing, talking, and breathing actions. AIP Advances, 2021, 11, .	0.6	15
3	10.1063/5.0042952.1. , 2021, , .		0
4	Numerical investigation on effect of particle aspect ratio on the dynamical behaviour of ellipsoidal particle flow. Journal of Physics Condensed Matter, 2021, 33, 455102.	0.7	4
5	Effect of fracture roughness on the hydrodynamics of proppant transport in hydraulic fractures. Journal of Natural Gas Science and Engineering, 2020, 80, 103401.	2.1	34
6	Proppant transport in dynamically propagating hydraulic fractures using CFD-XFEM approach. International Journal of Rock Mechanics and Minings Sciences, 2020, 131, 104356.	2.6	6
7	Numerical Modelling of Proppant Transport in Hydraulic Fractures. Fluid Dynamics and Materials Processing, 2020, 16, 297-337.	0.5	11
8	Numerical Fluid Flow Modelling in Multiple Fractured Porous Reservoirs. Fluid Dynamics and Materials Processing, 2020, 16, 245-266.	0.5	7
9	Computational fluid dynamics modelling to design and optimise power kites for renewable power generation. International Journal of Design Engineering, 2020, 9, 81.	0.3	0
10	A new CFD approach for proppant transport in unconventional hydraulic fractures. Journal of Natural Gas Science and Engineering, 2019, 70, 102951.	2.1	31
11	Investigation of slug-churn flow induced transient excitation forces at pipe bend. Journal of Fluids and Structures, 2019, 91, 102733.	1.5	19
12	FLUID FLOW THROUGH A FRACTURED POROUS RESERVOIR USING CFD MODELING. Journal of Porous Media, 2019, 22, 611-629.	1.0	1
13	Investigation of sand transport in an undulated pipe using computational fluid dynamics. Journal of Petroleum Science and Engineering, 2018, 162, 747-762.	2.1	8
14	Prediction of high-temperature rapid combustion behaviour of woody biomass particles. Fuel, 2016, 165, 205-214.	3.4	58
15	Combustion Modelling of Pulverized Biomass Particles at High Temperatures. Energy Procedia, 2015, 66, 273-276.	1.8	6
16	Characterization of biomass combustion at high temperatures based on an upgraded single particle model. Applied Energy, 2015, 156, 749-755.	5.1	45
17	Mechanistic model for four-phase sand/water/oil/gas stratified flow in horizontal pipes. WIT Transactions on Engineering Sciences, 2015, , .	0.0	0
18	Modelling effects of particle size and pipe gradient on sand transport in multiphase pipes. WIT Transactions on Engineering Sciences, 2015, , .	0.0	0

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19	An improved Vickers indentation fracture toughness model to assess the quality of thermally sprayed coatings. Engineering Fracture Mechanics, 2014, 128, 189-204.	2.0	46
20	Water dynamics inside a cathode channel of a polymer electrolyte membrane fuelÂcell. Renewable Energy, 2013, 50, 763-779.	4.3	30
21	Investigation of species transport in a gas diffusion layer of a polymer electrolyte membrane fuel cell through two-phase modelling. Renewable Energy, 2013, 51, 404-418.	4.3	25
22	Numerical study of the effect of effective diffusivity and permeability of the gas diffusion layer on fuel cell performance. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2012, 226, 907-921.	0.8	8
23	Calculating Hydrodynamic Loads on Pipelines and Risers: Practical Alternative to Morisonâ€™s Equation. Advanced Materials Research, 2011, 367, 431-438.	0.3	0
24	Modelling of the Through-air Bonding Process. Journal of Engineered Fibers and Fabrics, 2009, 4, 155892500900400.	0.5	2
25	Laminar flamelet model prediction of NO_x formation in a turbulent bluff-body combustor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2009, 223, 41-54.	0.8	13
26	The Mare's Tail - The Answer to a Cost Effective Produced Water Management in Deepwater Environment?. , 2009, , .		2
27	Flamelet Based NO x -Radiation Integrated Modelling of Turbulent Non-premixed Flame using Reynolds-stress Closure. Flow, Turbulence and Combustion, 2008, 81, 301-319.	1.4	13
28	Modeling tidal turbines. , 2008, , .		0
29	Computational analysis of fibre bonding in the through-air process. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2007, 221, 69-75.	1.4	1
30	A combustion model sensitivity study for CH₄/H₂ bluff-body stabilized flame. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 1377-1390.	1.1	10
31	Simple Remotely Operated Vehicles for Students and Schoolchildren. , 2007, , .		1
32	A mathematical model for airflow and heat transfer through fibrous webs. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2005, 219, 357-366.	1.4	16
33	Numerical study of bluff-body non-premixed flame structures using laminar flamelet model. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2005, 219, 361-370.	0.8	9
34	Ice-slurry production using direct contact heat transfer. International Journal of Refrigeration, 2004, 27, 511-519.	1.8	51
35	A CFD Coupled Acoustics Approach for Coaxial Jet Noise. , 2003, , .		9
36	Modelling of a bluff body stabilized CH4/H2 flame based on a laminar flamelet model with emphasis on NO prediction. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2003, 217, 201-210.	0.8	16

#	Article	IF	Citations
37	A Computational and Experimental Investigation of Serrated Coaxial Nozzles. , 2002, , .		2
38	Modelling of a Bluff-Body Nonpremixed Flame using a Coupled Radiation/Flamelet Combustion Model. Flow, Turbulence and Combustion, 2001, 67, 217-234.	1.4	62
39	Computational fluid dynamics modelling of multiphase flows in double elbow geometries. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110217.	1.4	1