Mohammad Moghiman

List of Publications by Year
in descending order

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49 papers	901 citations	471509 17 h-index	477307 29 g-index
51 all docs	51 docs citations	51 times ranked	991 citing authors

#	Article	IF	Citations
1	Effects of wavy surface characteristics on natural convection heat transfer in a cosine corrugated square cavity filled with nanofluid. International Journal of Heat and Mass Transfer, 2017, 107, 1110-1118.	4.8	129
2	Effects of nano-additives on pollutants emission and engine performance in a urea-SCR equipped diesel engine fueled with blended-biodiesel. Fuel, 2018, 222, 402-406.	6.4	78
3	Gasification of heavy fuel oils: A thermochemical equilibrium approach. Fuel, 2011, 90, 878-885.	6.4	77
4	A numerical study on the aerodynamic performance and the self-starting characteristics of a Darrieus wind turbine considering its moment of inertia. Renewable Energy, 2017, 107, 298-311.	8.9	54
5	Fully nonlinear viscous wave generation in numerical wave tanks. Ocean Engineering, 2013, 59, 73-85.	4.3	49
6	Influence of nanoparticles on reducing and enhancing evaporation mass transfer and its efficiency. International Journal of Heat and Mass Transfer, 2013, 61, 114-118.	4.8	41
7	Numerical and experimental investigation of a three dimensional spherical-nose projectile water entry problem. Ocean Engineering, 2015, 104, 397-404.	4.3	41
8	Numerical simulation of a submerged cylindrical wave energy converter. Renewable Energy, 2014, 64, 132-143.	8.9	39
9	Optimization of the parabolic mirror position in a solar cooker using the response surface method (RSM). Renewable Energy, 2015, 81, 753-759.	8.9	34
10	Experimental investigation of the distinct effects of nanoparticles addition and urea-SCR after-treatment system on NOx emissions in a blended-biodiesel fueled internal combustion engine. Fuel, 2020, 262, 116609.	6.4	33
11	On a methodology for selecting biomass materials for gasification purposes. Fuel Processing Technology, 2012, 98, 74-81.	7.2	32
12	Effect of aluminum nanoparticles on combustion characteristics and pollutants emission of liquid fuels â€“ A numerical study. Fuel, 2014, 119, 57-61.	6.4	32
13	Dynamics of soot formation by turbulent combustion and thermal decomposition of natural gas. Combustion Science and Technology, 2002, 174, 67-86.	2.3	30
14	Investigation on Effect of Magnetic Field on Mixed Convection Heat Transfer in a Ventilated Square Cavity. Procedia Engineering, 2015, 127, 1181-1188.	1.2	27
15	A three dimensional simulation of a rubber curing process considering variable order of reaction. Applied Mathematical Modelling, 2016, 40, 8592-8604.	4.2	21
16	An experimental investigation of ignition probability of diesel fuel droplets with metal oxide nanoparticles. Thermochimica Acta, 2017, 657, 79-85.	2.7	21
17	Effect of pulverized anthracite coal particles injection on thermal and radiative characteristics of natural gas flame: An experimental study. Fuel, 2015, 140, 44-49.	6.4	20
18	Experimental comparison of the ability of Dalton based and similarity theory correlations to predict water evaporation rate in different convection regimes. Heat and Mass Transfer, 2012, 48, 1397-1406.	2.1	17

#	Article	IF	Citations
19	A numerical investigation of preheated diluted oxidizer influence on NOx emission of biogas flameless combustion using Taguchi approach. Fuel, 2018, 227, 1-5.	6.4	15
20	Experimental investigation of urea injection parameters influence on NOx emissions from blended biodiesel-fueled diesel engines. Environmental Science and Pollution Research, 2018, 25, 4303-4308.	5.3	10
21	Modeling Biomass Gasification: A New Approach to Utilize Renewable Sources of Energy. , 2008, , .		9
22	Experimental Study of Natural Gas Temperature Effects on the Flame Luminosity and No Emission. International Journal of Spray and Combustion Dynamics, 2012, 4, 175-184.	1.0	9
23	EXPERIMENTAL AND NUMERICAL INVESTIGATION INTO ENHANCING RADIATION CHARACTERISTICS OF NATURAL-GAS FLAME BY INJECTION OF MICRO KEROSENE DROPLETS. Journal of Enhanced Heat Transfer, 2014, 21, 407-423.	1.1	9
24	Numerical Investigation of Curing Process in Reaction Injection Molding of Rubber for Quality Improvements. Key Engineering Materials, 0, 462-463, 1206-1211.	0.4	7
25	Experimental and Numerical Study on the Effect of Soot Injection on NOx Reduction and Radiation Enhancement in a Natural Gas Turbulent Flame. Arabian Journal for Science and Engineering, 2013, 38, 69-75.	1.1	7
26	Hydrogen and Carbon Black Production from Thermal Decomposition of Sub-Quality Natural Gas. International Journal of Spray and Combustion Dynamics, 2010, 2, 85-101.	1.0	6
27	An experimental assessment of the evaporation correlations for natural, forced and combined convection regimes. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 145-153.	2.1	6
28	Experimental study on the effect of Zirconia nanoparticles on solidification heat transfer characteristics: A comparison with Titania nanoparticles. International Journal of Refrigeration, 2018, 89, 40-50.	3.4	6
29	Effects of particle size and equivalence ratio on cyclone gasification of wood powder. Journal of the Energy Institute, 2007, 80, 29-34.	5.3	6
30	The Effect of H2S on Production of Carbon Black From Sub-Quality Natural Gas. , 2008, , .		5
31	A Taguchi approach for numerical investigation of CO emission from a non-premixed methaneâ€“air flame. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 367-373.	1.6	4
32	Effect of metal oxide nanoparticles on the ignition characteristics of diesel fuel droplets: an experimental study. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	4
33	An Experimental Study of the Ability of Similarity Theory to predict Water Evaporation Rate for Different Convection Regimes. Arabian Journal for Science and Engineering, 2013, 38, 3505-3513.	1.1	3
34	The impact of C/H on the radiative and thermal behavior of liquid fuel flames and pollutant emissions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2395-2403.	1.6	3
35	Investigating the Effects of Natural Gas Preheating on Soot Formation, Flame Luminosity, and NO_X Emissions: A Combined Experimental and Numerical Approach. Heat Transfer - Asian Research, 2017, 46, 895-912.	2.8	3
36	Experimental models to estimate supercooling behavior of ZrO2 nanofluid phase change materials. European Physical Journal Plus, 2019, 134, 1.	2.6	3

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37	Experimental and Numerical Studies of Carbon Black Formation Through Thermal Decomposition of Waste Natural Gas. , 2008, , .		2
38	An experimental investigation on the effects of surface gravity waves on the water evaporation rate in different air flow regimes. Heat and Mass Transfer, 2013, 49, 1823-1830.	2.1	2
39	Kerosene wick lamp flame deformation in gradient magnetic fields. Applied Physics Letters, 2014, 104, .	3.3	2
40	An Investigation on the Effect of Air Swirler Vane Angle on Liquid Fuel Combustion Characteristics. Heat Transfer - Asian Research, 2017, 46, 750-760.	2.8	2
41	Numerical predictions of the carbon burnout performance of coal-fired non-slagging vertical cyclone combustors. Fuel and Energy Abstracts, 1996, 37, 207.	0.0	1
42	Experimental Study on Combustion and Pollution Characteristic of Gas Oil and Biodiesel. Applied Mechanics and Materials, 0, 110-116, 99-104.	0.2	1
43	Impacts of Synchronous Combustion of Small Amounts of Coal Particles with Natural Gas on Enhancing Radiative Characteristic and NO x Flame Pollutant Emission. Heat Transfer - Asian Research, 2017, 46, 347-361.	2.8	1
44	Comparison of Mist Effect on the Heat Transfer Coefficient and Skin Friction Factor in an Impinging Jet. , 2008, , .		0
45	Numerical Analysis of Carbon Black Production from Subâ€Quality Natural Gas. , 2008, , .		0
46	Effects of Droplet Size and Air Preheating on Soot Formation in Turbulent Combustion of Liquid Fuel. , 2010, , .		0
47	Experimental Study of Natural Gas Fuel Temperature Influence on Radiation Enhancement and Emission. , 2010, , .		0
48	Influence of clay nanoparticles on hindering the undesirable solidification process. Heat and Mass Transfer, 2020, 56, 789-796.	2.1	0
49	Measurement and Comparison of Airflow in Condenser Axial-Flow Fans With Aluminum and Fiberglass Blades. , 2008, , .		0