Shuhn-Shyurng Hou

List of Publications by Year
in descending order

56 papers	1,013 citations	516710 16 h-index	454955 30 g-index
58 all docs	58 docs citations	58 times ranked	814 citing authors

#	Article	IF	Citations
1	Effects of heating height on flame appearance, temperature field and efficiency of an impinging laminar jet flame used in domestic gas stoves. Energy Conversion and Management, 2004, 45, 1583-1595.	9.2	83
2	Optimized conversion of waste cooking oil to biodiesel using modified calcium oxide as catalyst via a microwave heating system. Fuel, 2020, 266, 117114.	6.4	62
3	Heat transfer effects on the performance of an air standard Dual cycle. Energy Conversion and Management, 2004, 45, 3003-3015.	9.2	58
4	Influence of oblique angle and heating height on flame structure, temperature field and efficiency of an impinging laminar jet flame. Energy Conversion and Management, 2005, 46, 941-958.	9.2	57
5	Efficiency and emissions of a new domestic gas burner with a swirling flame. Energy Conversion and Management, 2007, 48, 1401-1410.	9.2	56
6	High-yield synthesis of carbon nano-onions in counterflow diffusion flames. Carbon, 2009, 47, 938-947.	10.3	56
7	Microexplosion and ignition of droplets of fuel oil/bio-oil (derived from lauan wood) blends. Fuel, 2013, 113, 31-42.	6.4	56
8	Investigation of Laminar Convective Heat Transfer for Al2O3-Water Nanofluids Flowing through a Square Cross-Section Duct with a Constant Heat Flux. Materials, 2015, 8, 5321-5335.	2.9	51
9	Performance analysis of an air-standard Miller cycle with considerations of heat loss as a percentage of fuel's energy, friction and variable specific heats of working fluid. International Journal of Thermal Sciences, 2008, 47, 182-191.	4.9	43
10	Enhancement of Biodiesel Production from High-Acid-Value Waste Cooking Oil via a Microwave Reactor Using a Homogeneous Alkaline Catalyst. Energies, 2021, 14, 437.	3.1	38
11	Influence of heat loss on the performance of an air-standard Atkinson cycle. Applied Energy, 2007, 84, 904-920.	10.1	32
12	Flame synthesis of carbon nano-onions enhanced by acoustic modulation. Nanotechnology, 2010, 21, 435604.	2.6	26
13	Co-Firing of Fast Pyrolysis Bio-Oil and Heavy Fuel Oil in a 300-kWth Furnace. Applied Sciences (Switzerland), 2016, 6, 326.	2.5	24
14	Improving Biodiesel Conversions from Blends of High- and Low-Acid-Value Waste Cooking Oils Using Sodium Methoxide as a Catalyst Based on a High Speed Homogenizer. Energies, 2018, 11, 2298.	3.1	21
15	The influence of external heat transfer on flame extinction of dilute sprays. International Journal of Heat and Mass Transfer, 1993, 36, 1867-1874.	4.8	19
16	Parametric Study of High-Efficiency and Low-Emission Gas Burners. Advances in Materials Science and Engineering, 2013, 2013, 1-7.	1.8	19
17	Optimized Conversion of Waste Cooking Oil to Biodiesel Using Calcium Methoxide as Catalyst under Homogenizer System Conditions. Energies, 2018, 11, 2622.	3.1	18
18	Flame synthesis of carbon nanostructures using mixed fuel in oxygen-enriched environment. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	17

#	Article	IF	Citations
19	Numerical Study of Laminar Flow and Convective Heat Transfer Utilizing Nanofluids in Equilateral Triangular Ducts with Constant Heat Flux. Materials, 2016, 9, 576.	2.9	16
20	Hydrogen-rich gas with low-level CO produced with autothermal methanol reforming providing a real-time supply used to drive a kW-scale PEMFC system. Energy, 2022, 239, 122267.	8.8	16
21	LAMINAR DIFFUSION FLAMES IN A MULTIPORT BURNER. Combustion Science and Technology, 2005, 177, 1463-1484.	2.3	15
22	Analysis on Controlling Factors for the Synthesis of Carbon Nanotubes and Nano-Onions in Counterflow Diffusion Flames. Journal of Nanoscience and Nanotechnology, 2014, 14, 5363-5369.	0.9	14
23	Extinction of stretched spray flames with nonunity Lewis numbers in a stagnation-point flow. Proceedings of the Combustion Institute, 1998, 27, 2009-2015.	0.3	13
24	Flame Synthesis of Carbon Nanotubes in a Rotating Counterflow. Journal of Nanoscience and Nanotechnology, 2009, 9, 4826-4833.	0.9	13
25	Co-Combustion of Fast Pyrolysis Bio-Oil Derived from Coffee Bean Residue and Diesel in an Oil-Fired Furnace. Applied Sciences (Switzerland), 2017, 7, 1085.	2.5	13
26	Study of Solid Calcium Diglyceroxide for Biodiesel Production from Waste Cooking Oil Using a High Speed Homogenizer. Energies, 2019, 12, 3205.	3.1	13
27	Oxy-Fuel Combustion Characteristics of Pulverized Coal under O2/Recirculated Flue Gas Atmospheres. Applied Sciences (Switzerland), 2020, 10, 1362.	2.5	13
28	Effects of internal heat transfer and preferential diffusion on stretched spray flames. International Journal of Heat and Mass Transfer, 2001, 44, 4391-4400.	4.8	12
29	A THEORY ON EXCESS-ENTHALPY SPRAY FLAME. Atomization and Sprays, 1999, 9, 355-369.	0.8	12
30	Combustion characteristics of a 300 kWth oil-fired furnace using castor oil/diesel blended fuels. Fuel, 2017, 208, 71-81.	6.4	11
31	Interactions for flames in a coaxial flow with a stagnation point. Combustion and Flame, 2003, 132, 58-72.	5.2	9
32	Water-In-Oil Emulsion as Boiler Fuel for Reduced NOx Emissions and Improved Energy Saving. Energies, 2019, 12, 1002.	3.1	9
33	Environmental-friendly three-dimensional carbon nanotubes grown by soil clay and graphene oxide nanosheets for energy storage. Materials Today Chemistry, 2022, 23, 100644.	3.5	8
34	A theoretical study on Bunsen spray flames. International Journal of Heat and Mass Transfer, 2003, 46, 963-971.	4.8	7
35	Methane flames in a jet impinging onto a wall. Proceedings of the Combustion Institute, 2005, 30, 267-275.	3.9	7
36	The interaction between internal heat gain and heat loss on compound-drop spray flames. International Journal of Heat and Mass Transfer, 2014, 71, 503-514.	4.8	7

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37	Enhanced Synthesis of Carbon Nanomaterials Using Acoustically Excited Methane Diffusion Flames. Materials, 2015, 8, 4805-4816.	2.9	7
38	Numerical Study of Laminar Flow Forced Convection of Water-Al₂O₃Nanofluids under Constant Wall Temperature Condition. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	6
39	Influence of oxygen concentration, fuel composition, and strain rate on synthesis of carbon nanomaterials. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	6
40	Achievement of high CO2 concentration in the flue gas at slightly positive pressure during oxy-coal combustion in a 300kWth furnace. Fuel, 2015, 160, 434-439.	6.4	6
41	Numerical investigation of CuO-water nanofluid turbulent convective heat transfer in square cross-section duct under constant heat flux. Engineering Computations, 2016, 33, 1714-1728.	1.4	6
42	Transition of carbon nanostructures in heptane diffusion flames. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6
43	Spray flames in a one-dimensional duct of varying cross-sectional area. International Journal of Heat and Mass Transfer, 2005, 48, 2250-2259.	4.8	5
44	Analysis of a stagnation-point premixed flame influenced by inert spray, heat loss, and non-unity Lewis number. Applied Mathematical Modelling, 2013, 37, 1333-1346.	4.2	5
45	Effects of Acoustic Modulation and Mixed Fuel on Flame Synthesis of Carbon Nanomaterials in an Atmospheric Environment. Materials, 2016, 9, 939.	2.9	4
46	The interaction between internal heat loss and external heat loss on the extinction of stretched spray flames with nonunity Lewis number. International Journal of Heat and Mass Transfer, 2003, 46, 311-322.	4.8	3
47	The influence of preferential diffusion and stretch on the burning intensity of a curved flame front with fuel spray. International Journal of Heat and Mass Transfer, 2003, 46, 5073-5085.	4.8	3
48	Two-Stage Biodiesel Synthesis from Used Cooking Oil with a High Acid Value via an Ultrasound-Assisted Method. Energies, 2021, 14, 3703.	3.1	3
49	The Interaction between Upstream and Downstream Heat Transfers on the Burning and Extinction of Dilute Spray Flames.. JSME International Journal Series B, 1999, 42, 691-698.	0.3	2
50	Influence of heat loss, preferential diffusion, and stretch on a conical flame in an impinging jet flow. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2012, 35, 461-471.	1.1	2
51	Analysis of Completely Prevaporized Spray Flames with Water/Octane Core/Shell Structured Droplets. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	2
52	The Quenching of Spray Flames by Stretch and Heat Loss.. JSME International Journal Series B, 2003, 46, 287-298.	0.3	1
53	Theory of non-adiabatic conical spray premixed flames with non-unity Lewis number. International Journal of Heat and Mass Transfer, 2015, 91, 1206-1216.	4.8	1
54	INFLUENCE OF WATER SPRAYS AND HEAT LOSS ON NEGATIVELY AND POSITIVELY STRETCHED CURVED PREMIXED FLAMES. , 2006, 16, 827-842.		1

#	Article	IF	Citations
55	Combined effects of variable spectific heats and heat loss on the performance of an Atkinson cycle. , 2011, , .		0
56	The effects of temperature-dependent specific heats of the working fluid on the performance of a Dual cycle with heat loss and friction. , 2011, , .		0