Haisheng Zhen

List of Publications by Year
in descending order

44 papers	971 citations	361045 20 h-index	454577 30 g-index
44 all docs	44 docs citations	44 times ranked	480 citing authors

#	Article	IF	Citations
1	Characterization of biogas-hydrogen premixed flames using Bunsen burner. International Journal of Hydrogen Energy, 2014, 39, 13292-13299.	3.8	70
2	Exhaust noise, performance and emission characteristics of spark ignition engine fuelled with pure gasoline and hydrous ethanol gasoline blends. Case Studies in Thermal Engineering, 2018, 12, 55-63.	2.8	49
3	Thermal and emission characteristics of a turbulent swirling inverse diffusion flame. International Journal of Heat and Mass Transfer, 2010, 53, 902-909.	2.5	47
4	Effects of hydrogen addition on the characteristics of a biogas diffusion flame. International Journal of Hydrogen Energy, 2013, 38, 6874-6881.	3.8	47
5	Experimental and numerical study on the laminar burning velocity of hydrogen enriched biogas mixture. International Journal of Hydrogen Energy, 2019, 44, 22240-22249.	3.8	47
6	Effects of nozzle length on flame and emission behaviors of multi-fuel-jet inverse diffusion flame burner. Applied Energy, 2011, 88, 2917-2924.	5.1	46
7	Improvement of domestic cooking flames by utilizing swirling flows. Fuel, 2014, 119, 153-156.	3.4	39
8	Effects of hydrogen concentration on the emission and heat transfer of a premixed LPG-hydrogen flame. International Journal of Hydrogen Energy, 2012, 37, 6097-6105.	3.8	38
9	A comparison of the heat transfer behaviors of biogasâ€“H2 diffusion and premixed flames. International Journal of Hydrogen Energy, 2014, 39, 1137-1144.	3.8	34
10	Thermal and heat transfer behaviors of an inverse diffusion flame with induced swirl. Fuel, 2013, 103, 212-219.	3.4	32
11	Premixed flame impingement heat transfer with induced swirl. International Journal of Heat and Mass Transfer, 2010, 53, 4333-4336.	2.5	31
12	Pollutant emission and noise radiation from open and impinging inverse diffusion flames. Applied Energy, 2012, 91, 82-89.	5.1	31
13	Heat transfer from a turbulent swirling inverse diffusion flame to a flat surface. International Journal of Heat and Mass Transfer, 2009, 52, 2740-2748.	2.5	30
14	Heat transfer characteristics and the optimized heating distance of laminar premixed biogas-hydrogen Bunsen flame impinging on a flat surface. International Journal of Hydrogen Energy, 2015, 40, 15723-15731.	3.8	30
15	A comparison of the thermal, emission and heat transfer characteristics of swirl-stabilized premixed and inverse diffusion flames. Energy Conversion and Management, 2011, 52, 1263-1271.	4.4	29
16	Heat transfer characteristics of an impinging premixed annular flame jet. Applied Thermal Engineering, 2012, 36, 386-392.	3.0	29
17	Emission of impinging swirling and non-swirling inverse diffusion flames. Applied Energy, 2011, 88, 1629-1634.	5.1	26
18	Effects of plate temperature on heat transfer and emissions of impinging flames. International Journal of Heat and Mass Transfer, 2010, 53, 4176-4184.	2.5	25

#	Article	IF	Citations
19	Combustion characteristic and heating performance of stoichiometric biogasâ€“hydrogenâ€“air flame. International Journal of Heat and Mass Transfer, 2016, 92, 807-814.	2.5	23
20	Combustion characteristics of a swirling inverse diffusion flame upon oxygen content variation. Applied Energy, 2011, 88, 2925-2933.	5.1	21
21	A comparison of the emission and impingement heat transfer of LPGâ€“H2 and CH4â€“H2 premixed flames. International Journal of Hydrogen Energy, 2012, 37, 10947-10955.	3.8	21
22	Formations and emissions of CO/NO2/NOx in the laminar premixed biogas-hydrogen flame undergoing the flame-wall interaction: Effects of the variable CO2 proportion. Fuel, 2020, 276, 118096.	3.4	21
23	Experimental and numerical study on the emission characteristics of laminar premixed biogas-hydrogen impinging flame. Fuel, 2017, 195, 1-11.	3.4	20
24	A study on the effects of air preheat on the combustion and heat transfer characteristics of Bunsen flames. Fuel, 2016, 184, 50-58.	3.4	19
25	Effects of H2 addition on the formation and emissions of CO/NO2/NOx in the laminar premixed biogas-hydrogen flame undergoing the flame-wall interaction. Fuel, 2020, 259, 116257.	3.4	19
26	An experimental comparative study of the stabilization mechanism of biogas-hydrogen diffusion flame. International Journal of Hydrogen Energy, 2019, 44, 1988-1997.	3.8	17
27	Kinetic modeling investigation on the coupling effects of H2 and CO2 addition on the laminar flame speed of hydrogen enriched biogas mixture. International Journal of Hydrogen Energy, 2020, 45, 27891-27903.	3.8	16
28	Emission of impinging biogas/air premixed flame with hydrogen enrichment. International Journal of Hydrogen Energy, 2016, 41, 2087-2095.	3.8	12
29	A state-of-the-art review of lab-scale inverse diffusion burners & flames: From laminar to turbulent. Fuel Processing Technology, 2021, 222, 106940.	3.7	12
30	Nozzle effect on heat transfer and CO emission of impinging premixed flames. International Journal of Heat and Mass Transfer, 2011, 54, 625-635.	2.5	11
31	Effect of hydrogen addition on overall pollutant emissions of inverse diffusion flame. Energy, 2016, 104, 284-294.	4.5	11
32	A numerical study of the heat transfer of an impinging round-jet methane Bunsen flame. Fuel, 2019, 251, 730-738.	3.4	11
33	Effects of unburned gases velocity on the CO/NO2/NOx formations and overall emissions of laminar premixed biogas-hydrogen impinging flame. Energy, 2020, 196, 117146.	4.5	8
34	An experimental study on the effect of DC electric field on impinging flame. Fuel, 2020, 274, 117846.	3.4	7
35	An experimental examination of the role of turbulence on flame impingement heat transfer. Fuel, 2020, 268, 117329.	3.4	7
36	Quenching distance, wall heat flux and CO/NO thermochemical states in the wall vicinity of laminar premixed biogas-hydrogen impinging flame. Fuel, 2022, 307, 121849.	3.4	6

#	Article	IF	Citations
37	A study on impingement heat transfer characteristics of partially premixed flames on double-concentric-pipe burner. Fuel, 2021, 284, 119018.	3.4	5
38	Experimental Investigation of Hydrous Ethanol Gasoline on Engine Noise, Cyclic Variations and Combustion Characteristics. Energies, 2022, 15, 1760.	1.6	5
39	Effect of N2 Replacement by CO2 in Coaxial-Flow on the Combustion and Emission of a Diffusion Flame. Energies, 2018, 11, 1032.	1.6	4
40	Combustion Characteristics of Small Laminar Flames in an Upward Decreasing Magnetic Field. Energies, 2021, 14, 1969.	1.6	4
41	Relieving the Reaction Heterogeneity at the Subparticle Scale in Ni-Rich Cathode Materials with Boosted Cyclability. ACS Applied Materials & Interfaces, 2022, 14, 6729-6739.	4.0	4
42	A study on acoustically modulated bunsen flame and its impingement heat transfer. International Journal of Hydrogen Energy, 2022, 47, 13168-13177.	3.8	3
43	Experimental Investigation on the Heat Flux Distribution and Pollutant Emissions of Slot LPG/Air Premixed Impinging Flame Array. Energies, 2021, 14, 6255.	1.6	2
44	Numerical Investigation on the Flame Structure and CO/NO Formations of the Laminar Premixed Biogasâ€“Hydrogen Impinging Flame in the Wall Vicinity. Energies, 2021, 14, 7308.	1.6	2