Huaqiang

List of Publications by Year
in descending order

75 papers	2,359 citations	218677 26 h-index	233421 45 g-index
75 all docs	75 docs citations	75 times ranked	1324 citing authors

#	Article	IF	Citations
1	Promotion effect of activated carbon, coal char and graphite on lignite microwave dehydration process. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105380.	5.5	8
2	Bandgap modulation of ZnO/ZnS heterostructures through ion exchange and their efficient transport properties. Vacuum, 2022, 196, 110788.	3.5	20
3	Recent progress of transparent conductive electrodes in the construction of efficient flexible organic solar cells. International Journal of Energy Research, 2022, 46, 4071-4087.	4.5	10
4	The interaction between microwave and coal: A discussion on the state-of-the-art. Fuel, 2022, 314, 123140.	6.4	12
5	Design strategies of ZnO heterojunction arrays towards effective photovoltaic applications. , 2022, 1, .		29
6	Recent advances on industrial solid waste catalysts for improving the quality of bio-oil from biomass catalytic cracking: A review. Fuel, 2022, 315, 123218.	6.4	51
7	Effect of T-shaped micro-fins on pool boiling heat transfer performance of surfaces. Experimental Thermal and Fluid Science, 2022, 136, 110663.	2.7	34
8	Effect of Ammonia on Laminar Combustion Characteristics of Methaneâ€“Air Flames at Elevated Pressures. ACS Omega, 2022, 7, 15326-15337.	3.5	10
9	Promotion of catalytic performance of Mnâ€“Ce/biochar catalysts in SCR reaction by ultrasonic treatment. Journal of the Energy Institute, 2022, 102, 350-361.	5.3	3
10	Research progress in the preparation of high-quality liquid fuels and chemicals by catalytic pyrolysis of biomass: A review. Energy Conversion and Management, 2022, 261, 115647.	9.2	102
11	Soot formation in n-heptane/air laminar diffusion flames: Effect of toluene addition. Fuel Processing Technology, 2022, 234, 107324.	7.2	20
12	Effects of N2 dilution on laminar burning velocity, combustion characteristics and NOx emissions of rich CH4â€“air premixed flames. Fuel, 2021, 284, 119017.	6.4	42
13	Effects of adding cyclohexane, n-hexane, ethanol, and 2,5-dimethylfuran to fuel on soot formation in laminar coflow n-heptane/iso-octane diffusion flame. Combustion and Flame, 2021, 225, 120-135.	5.2	80
14	Experimental study on pyrolysis of camphor wood catalyzed by CaO-calcined phosphate mixture. Fuel, 2021, 288, 119642.	6.4	5
15	Enhancement of lignite microwave dehydration by cationic additives. Fuel, 2021, 289, 119985.	6.4	10
16	Biochar as a low-cost adsorbent for aqueous heavy metal removal: A review. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105081.	5.5	281
17	Experimental investigation of the effect of cylindrical array structure on heat transfer performance during nucleate boiling. International Journal of Heat and Mass Transfer, 2021, 174, 121319.	4.8	13
18	Dynamic Analysis of Bubble Attachment and Sweeping on Microwire in Subcooled Nucleate Pool Boiling. Journal of Thermal Science, 2021, 30, 1842-1858.	1.9	9

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19	Nitrogen-doped chain-like carbon nanospheres with tunable interlayer distance for superior pseudocapacitance-dominated zinc- and potassium-ion storage. Carbon, 2021, 184, 534-543.	10.3	35
20	Effects of carbon dioxide on the combustion characteristics of the laminar premixed n-heptane/air flames at elevated pressures. Journal of the Energy Institute, 2021, 99, 127-136.	5.3	6
21	Morphological evolution of soot emissions from a laminar co-flow methane diffusion flame with varying oxygen concentrations. Journal of the Energy Institute, 2020, 93, 224-234.	5.3	22
22	Numerical investigation on the effect of CO2 and steam for the H2 intermediate formation and NOX emission in laminar premixed methane/air flames. International Journal of Hydrogen Energy, 2020, 45, 3785-3794.	7.1	41
23	Effect of oxygen-rich combustion on soot formation in laminar co-flow propane diffusion flames. Journal of the Energy Institute, 2020, 93, 822-832.	5.3	13
24	Thermogravimetric and mass spectrometry analyses of cellulose pyrolysis under the synergistic effect of CaO and K₂HPO₄â˜™3H₂O. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 10-16.	2.3	2
25	Fabrication of multi-crystalline silicon pyramid structure and improvement in its photovoltaic performance. Journal of Materials Science, 2020, 55, 680-687.	3.7	22
26	Biofuel production from microalgae: a review. Environmental Chemistry Letters, 2020, 18, 285-297.	16.2	121
27	Modeling Study of the Impact of Blending N₂, CO₂, and H₂O on Characteristics of CH₄ Laminar Premixed Combustion. Energy & Fuels, 2020, 34, 1184-1192.	5.1	19
28	Experimental study on hydraulic and thermal characteristics of composite porous wick with sphericalâ€“dendritic powders. Journal of Thermal Analysis and Calorimetry, 2020, 141, 107-117.	3.6	5
29	Construction of microsphere-shaped ZnSe-AgZnInS and its charge transport property. Journal of Materials Research and Technology, 2020, 9, 2230-2236.	5.8	10
30	Light trapping structures and plasmons synergistically enhance the photovoltaic performance of full-spectrum solar cells. Nanoscale, 2020, 12, 1269-1280.	5.6	52
31	Experimental investigation of bubble jet flow, sweeping and rotation on horizontal or inclined micro-wire during subcooled boiling. Journal of Thermal Analysis and Calorimetry, 2020, 141, 95-106.	3.6	3
32	Numerical study of the physical and chemical effects of hydrogen addition on laminar premixed combustion characteristics of methane and ethane. International Journal of Hydrogen Energy, 2020, 45, 20501-20514.	7.1	51
33	Effects of ethanol and 2, 5-dimethylfuran addition on the morphology and nanostructure evolution of soot in gasoline primary reference fuel-air coflow diffusion flames. Fuel, 2020, 281, 118711.	6.4	37
34	Study of soot functional groups and morphological characteristics in laminar coflow methane and ethylene diffusion flames with hydrogen addition. Fuel, 2020, 279, 118474.	6.4	21
35	Effects of 2, 5â€“dimethylfuran/ethanol addition on soot formation in n-heptane/iso-octane/air coflow diffusion flames. Energy, 2020, 210, 118661.	8.8	13
36	Numerical Investigation on Combustion Characteristics of Laminar Premixed n-Heptane/Hydrogen/Air Flames at Elevated Pressure. Energy & Fuels, 2020, 34, 14768-14775.	5.1	8

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37	The Influence of Anionic Additives on the Microwave Dehydration Process of Lignite. Energy & Fuels, 2020, 34, 9401-9410.	5.1	11
38	Study on evaporation heat transfer performance of composite porous wicks with spherical-dendritic powders based on orthogonal experiment. International Journal of Heat and Mass Transfer, 2020, 156, 119794.	4.8	10
39	Evaporation heat transfer characteristic of porous wick in an open capillary evaporator. International Journal of Thermal Sciences, 2020, 155, 106445.	4.9	9
40	Ligand engineering of colloid quantum dots and their application in all-inorganic tandem solar cells. Journal of Energy Chemistry, 2020, 50, 230-239.	12.9	22
41	Laminar burning velocity and pollutant emissions of the gasoline components and its surrogate fuels: A review. Fuel, 2020, 269, 117451.	6.4	69
42	Numerical study on CH4 laminar premixed flames for combustion characteristics in the oxidant atmospheres of N2/CO2/H2O/Ar-O2. Journal of the Energy Institute, 2020, 93, 1278-1287.	5.3	14
43	Effects of Ethanol Blending on the Formation of Soot in n-Heptane/Air Coflow Diffusion Flame. Journal of Chemistry, 2020, 2020, 1-10.	1.9	8
44	Combustion synthesis of defect-rich carbon nanotubes as anodes for sodium-ion batteries. Applied Surface Science, 2020, 520, 146317.	6.1	34
45	Effects of radiation reabsorption of C1-C6 hydrocarbon flames at normal and elevated pressures. Fuel, 2020, 266, 117061.	6.4	13
46	Effect of hydrogen addition on the laminar premixed combustion characteristics the main components of natural gas. Journal of the Energy Institute, 2019, 92, 1178-1190.	5.3	89
47	Ultrafast flame growth of carbon nanotubes for high-rate sodium storage. Journal of Power Sources, 2019, 439, 227072.	7.8	25
48	Effect of fuel structure on synthesis of carbon nanotubes in diffusion flames. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 265-272.	2.1	14
49	Influence of pentanol and dimethyl ether blending with diesel on the combustion performance and emission characteristics inÂaÂcompression ignition engine under low temperature combustion mode. Journal of the Energy Institute, 2019, 92, 1658-1669.	5.3	23
50	Numerical Investigation of Heat Transfer Characteristics of Supercritical CO2 Tube in Combustion Chamber of Coal-Fired Boiler. Journal of Thermal Science, 2019, 28, 442-453.	1.9	8
51	Numerical study on the effect of separated over-fire air ratio on combustion characteristics and NOx emission in a 1000â€¯MW supercritical CO2 boiler. Energy, 2019, 175, 593-603.	8.8	20
52	Evaporation heat transfer characteristics of composite porous wick with spherical-dendritic powders. Applied Thermal Engineering, 2019, 152, 825-834.	6.0	17
53	Numerical investigation on combustion characteristics of laminar premixed n-heptane/air flames at elevated initial temperature and pressure. Journal of the Energy Institute, 2019, 92, 1821-1830.	5.3	23
54	Numerical simulation of flow and heat transfer between supercritical CO 2 tube and flue gas. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2295.	1.5	4

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55	Experimental investigation of soot morphology and primary particle size along axial and radial direction of an ethylene diffusion flame via electron microscopy. Journal of the Energy Institute, 2019, 92, 1294-1302.	5.3	35
56	Effect of methane addition to ethylene on the morphology and size distribution of soot in a laminar co-flow diffusion flame. Energy, 2019, 166, 392-400.	8.8	93
57	Numerical analysis of the effect of CO2 on combustion characteristics of laminar premixed methane/air flames. Journal of the Energy Institute, 2019, 92, 1487-1501.	5.3	32
58	Direct Numerical Simulation of Capillary Rise in Microtubes with Different Cross-Sections. Acta Physica Polonica A, 2019, 135, 532-538.	0.5	6
59	Experimental and numerical investigation of silicothermic reduction process with detailed chemical kinetics and thermal radiation. Applied Thermal Engineering, 2018, 135, 454-462.	6.0	13
60	Effects of Fe₂O₃ on pyrolysis characteristics of soybean protein and release of NOx precursors. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 459-465.	2.3	7
61	An experimental study of the merging probability of double buoyancy-controlled jet flame. Experimental Heat Transfer, 2018, 31, 121-130.	3.2	6
62	Effects of strain rate and CO2 on no formation in CH4/N2/O2 counter-flow diffusion flames. Thermal Science, 2018, 22, 769-776.	1.1	7
63	A comparison of two statistical narrow band models for non-gray gas radiation in planar plates. Thermal Science, 2018, 22, 777-784.	1.1	7
64	Calculations of radiative heat transfer in an axisymmetric jet diffusion flame at elevated pressures using different gas radiation models. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 12-25.	2.3	43
65	A comprehensive evaluation of the non gray gas thermal radiation using the line-by-line model in one- and two-dimensional enclosures. Applied Thermal Engineering, 2017, 124, 362-370.	6.0	38
66	Effects of Particle Size Distribution and Oxygen Concentration on the Propagation Behavior of Pulverized Coal Flames in O₂/CO₂ Atmospheres. Energy & Fuels, 2017, 31, 5571-5580.	5.1	12
67	Effects of simultaneous hydrogen enrichment and carbon dioxide dilution of fuel on soot formation in an axisymmetric coflow laminar ethylene/air diffusion flame. Combustion and Flame, 2016, 166, 216-228.	5.2	124
68	Effects of total pressure on non-grey gas radiation transfer in oxy-fuel combustion using the LBL, SNB, SNBCK, WSGG, and FSCK methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 172, 24-35.	2.3	60
69	Calculations of narrow-band transimissities and the Planck mean absorption coefficients of real gases using line-by-line and statistical narrow-band models. Frontiers in Energy, 2014, 8, 41-48.	2.3	14
70	Relationship between the spectral line based weighted-sum-of-gray-gases model and the full spectrum k-distribution model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 143, 111-120.	2.3	29
71	Study on combustion characteristics of two sizes pulverized coal in O2/CO2 atmosphere. Journal of CO2 Utilization, 2014, 7, 6-10.	6.8	7
72	Calculations of gas radiation heat transfer in a two-dimensional rectangular enclosure using the line-by-line approach and the statistical narrow-band correlated-k model. International Journal of Thermal Sciences, 2012, 59, 66-74.	4.9	55

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73	Calculations of gas thermal radiation transfer in one-dimensional planar enclosure using LBL and SNB models. International Journal of Heat and Mass Transfer, 2011, 54, 4736-4745.	4.8	106
74	A new comprehensive model for nucleate pool boiling heat transfer of pure liquid at low to high heat fluxes including CHF. International Journal of Heat and Mass Transfer, 2009, 52, 4203-4210.	4.8	32
75	The Investigation of Soot Free Length of Jet Flame of Propane and Carbon Dioxide Gas Mixture. Combustion Science and Technology, 0, , 1-13.	2.3	0