

Junwei Li

List of Publications by Year in descending order

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59
papers

1,323
citations

393982

19
h-index

360668

35
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62
all docs

62
docs citations

62
times ranked

514
citing authors

#	ARTICLE	IF	CITATIONS
1	Feedback Control of Combustion Instabilities Using a Helmholtz Resonator with an Oscillating Volume. <i>Combustion Science and Technology</i> , 2012, 184, 694-716.	1.2	100
2	Control of combustion instability with a tunable Helmholtz resonator. <i>Aerospace Science and Technology</i> , 2015, 41, 55-62.	2.5	82
3	NO emission and thermal performances studies on premixed ammonia-oxygen combustion in a CO ₂ -free micro-planar combustor. <i>Fuel</i> , 2020, 280, 118554.	3.4	82
4	Thermodynamic measurement and analysis of dual-temperature thermoacoustic oscillations for energy harvesting application. <i>Energy</i> , 2014, 65, 517-526.	4.5	76
5	Experimental investigation on heat loss and combustion in methane/oxygen micro-tube combustor. <i>Applied Thermal Engineering</i> , 2008, 28, 707-716.	3.0	74
6	Oxy-fuel combustion of methane in a swirl tubular flame burner under various oxygen contents: Operation limits and combustion instability. <i>Experimental Thermal and Fluid Science</i> , 2018, 90, 115-124.	1.5	67
7	Nonorthogonality analysis of a thermoacoustic system with a premixed V-shaped flame. <i>Energy Conversion and Management</i> , 2014, 85, 102-111.	4.4	63
8	Effect analysis on energy conversion enhancement and NO _x emission reduction of ammonia/hydrogen fuelled wavy micro-combustor for micro-thermophotovoltaic application. <i>Fuel</i> , 2021, 289, 119755.	3.4	63
9	Mitigating NO emissions from an ammonia-fueled micro-power system with a perforated plate implemented. <i>Journal of Hazardous Materials</i> , 2021, 401, 123848.	6.5	63
10	Experimental study of n-heptane/air combustion in meso-scale burners with porous media. <i>Experimental Thermal and Fluid Science</i> , 2014, 52, 47-58.	1.5	61
11	Effects of heat recirculation on combustion characteristics of n-heptane in micro combustors. <i>Applied Thermal Engineering</i> , 2016, 109, 697-708.	3.0	59
12	Flame stability and combustion characteristics of liquid fuel in a meso-scale burner with porous media. <i>Fuel</i> , 2019, 251, 249-259.	3.4	47
13	Combustion Instabilities in a Bifurcating Tube: Open- and Closed-Loop Measurements. <i>AIAA Journal</i> , 2014, 52, 2513-2523.	1.5	40
14	Experimental evaluation of anti-sound approach in damping self-sustained thermoacoustics oscillations. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	37
15	Transient energy growth of acoustic disturbances in triggering self-sustained thermoacoustic oscillations. <i>Energy</i> , 2015, 82, 370-381.	4.5	33
16	Effects of porous media on partially premixed combustion and heat transfer in meso-scale burners fuelled with ethanol. <i>Energy</i> , 2021, 224, 120191.	4.5	29
17	Improved method of measuring pressure coupled response for composite solid propellants. <i>Journal of Sound and Vibration</i> , 2014, 333, 2226-2240.	2.1	24
18	Thermal performances and emitter efficiency improvement studies on premixed micro-combustors with different geometric shapes for thermophotovoltaics applications. <i>Energy</i> , 2021, 226, 120298.	4.5	24

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19	Experimental comparison of noise dissipation effects of single- and double-layer acoustic liners. <i>Applied Acoustics</i> , 2018, 141, 281-292.	1.7	22
20	Theoretical Modeling and Numerical Study for Thrust- Oscillation Characteristics in Solid Rocket Motors. <i>Journal of Propulsion and Power</i> , 2012, 28, 312-322.	1.3	19
21	Transient flow characteristics and performance of a solid rocket motor with a pintle valve. <i>Chinese Journal of Aeronautics</i> , 2020, 33, 3189-3205.	2.8	19
22	Aeroacoustic damping performance studies on off-axial double-layer in-duct orifices at low Mach and Helmholtz number. <i>Applied Acoustics</i> , 2019, 156, 46-55.	1.7	18
23	Evaluations of acoustic damping performances of double-layer in-duct perforated plates at low Mach and Helmholtz number. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 3512-3523.	0.5	18
24	Diffusion Combustion of Liquid Heptane in a Small Tube with and without Heat Recirculating. <i>Combustion Science and Technology</i> , 2012, 184, 1591-1607.	1.2	15
25	Effects of gas temperature on nozzle damping experiments on cold-flow rocket motors. <i>Acta Astronautica</i> , 2016, 126, 18-26.	1.7	14
26	Characteristics of stoichiometric CH ₄ /O ₂ /CO ₂ flame up to the pure oxygen condition. <i>Energy</i> , 2019, 168, 151-159.	4.5	14
27	Effects of baffle designs on damping acoustic oscillations in a solid rocket motor. <i>Aerospace Science and Technology</i> , 2021, 115, 106827.	2.5	14
28	Energy and exergy conversion enhancement of a premixed hydrogen-fuelled wavy-combustor for micro-thermophotovoltaic application. <i>Applied Thermal Engineering</i> , 2021, 196, 117328.	3.0	12
29	Experimental and theoretical studies on thermoacoustic limit cycle oscillation in a simplified solid rocket motor using flat flame burner. <i>Acta Astronautica</i> , 2021, 189, 26-42.	1.7	10
30	Numerical Simulation of Flow and Heat Transfer in Round-to-Rectangular Nozzles. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007, 51, 267-291.	1.2	9
31	Influence of thermal inhibitor position and temperature on vortex-shedding-driven pressure oscillations. <i>Chinese Journal of Aeronautics</i> , 2013, 26, 544-553.	2.8	9
32	Experimental investigation on propagation characteristics of n-heptane/air combustion wave in foamed porous media. <i>Fuel</i> , 2021, 306, 121742.	3.4	9
33	Experimental and Numerical Studies on Methane/Air Combustion in a Micro Swiss-Roll Combustor. <i>Combustion Science and Technology</i> , 2010, 182, 1707-1717.	1.2	8
34	Numerical Analysis on Oscillation Characteristics in a Tailpipe Nozzle Solid Rocket Motor. <i>Journal of Spacecraft and Rockets</i> , 2011, 48, 103-109.	1.3	8
35	Numerical Research on The Nozzle Damping Effect by A Wave Attenuation Method. <i>Defence Technology</i> , 2013, 9, 162-166.	2.1	8
36	Experimental Study on Flame Stability and Thermal Performance of an n-Heptane-Fueled Microscale Combustor. <i>Combustion Science and Technology</i> , 2017, 189, 1198-1215.	1.2	8

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37	Effect of the head cavity on pressure oscillation suppression characteristics in large solid rocket motors. <i>Science China Technological Sciences</i> , 2015, 58, 1250-1262.	2.0	7
38	Experimental and numerical study on pressure oscillation in a combustor with rotary valve. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 298-314.	2.8	6
39	Real-time Plume Velocity Measurement of Solid Propellant Rocket Motors Using TDLAS Technique. <i>Propellants, Explosives, Pyrotechnics</i> , 2021, 46, 636-653.	1.0	6
40	Experimental and theoretical study on characteristics of pulse excitation in T-burners. <i>Acta Astronautica</i> , 2017, 134, 278-290.	1.7	5
41	Study on unsteady evaporation of n-heptane droplet in a heated tube. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 539-556.	2.5	5
42	Effects of external heating on flame stability in a micro porous combustor fuelled with heptane. <i>Combustion Science and Technology</i> , 2019, 191, 311-324.	1.2	5
43	Study on combustion oscillation characteristics of micron aluminum particles. <i>Powder Technology</i> , 2021, 394, 782-790.	2.1	5
44	Fluidic Nozzle Throats in Solid Rocket Motors. , 2019, , .		4
45	Numerical simulation of evaporation phenomena and heat transfer of liquid Hydrocarbon in a microtube. <i>International Journal of Heat and Mass Transfer</i> , 2021, 179, 121734.	2.5	4
46	Experimental and numerical study on measuring solid-propellant pressure-coupled response using an improved rotary valve. <i>Acta Astronautica</i> , 2021, 180, 155-169.	1.7	3
47	Flow Boiling and Heat Transfer of N-heptane Flow in a Microtube Heated by Concurrent Microflame. <i>Combustion Science and Technology</i> , 2023, 195, 265-293.	1.2	3
48	Study on Pulse Triggering Combustion Instability in a Combustion Chamber. <i>Energy Procedia</i> , 2014, 61, 1130-1133.	1.8	2
49	Evaluation of Nozzle Damping Characteristics by a Pulsed Method. <i>Energy Procedia</i> , 2014, 61, 2339-2342.	1.8	2
50	Experimental Study on N-heptane Droplet Combustion in a Micro-tube. <i>Energy Procedia</i> , 2014, 61, 2528-2531.	1.8	2
51	The Combustion Characteristics of a Non-Premixed Combustor with Opposed Methane Jets. , 2012, , .		1
52	Studies on Effect of Head Cavity on Resonance Damping Characteristics in Solid Rocket Motors. , 2012, , .		1
53	Numerical Study of N-heptane and Air Mixture Combustion Inside a Micro Tube. <i>Energy Procedia</i> , 2014, 61, 1134-1137.	1.8	1
54	Experimental and Numerical Study on Oxygen Enhanced Methane Combustion in a Rapidly Mixed Tubular Flame Burner. , 2015, , .		0

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55	Study on the effects of gas temperature on cold flow test of nozzle damping. , 2015, , .		0
56	Propagation of Pressure Wave in a Pulsed T-burner. , 2017, , .		0
57	Stability limits of methane/oxygen mixtures diluted by N ₂ and CO ₂ under various oxygen contents. , 2018, , .		0
58	Theoretical Study on Heating Process of Micro-Al Particles in Laminar Flame. Combustion Science and Technology, 2023, 195, 1106-1123.	1.2	0
59	Numerical analysis of deflection control of a gas plasma jet based on magnetohydrodynamic staggered electrode configuration. Chinese Journal of Aeronautics, 2022, , .	2.8	0