

Jiajian Zhu

List of Publications by Year in descending order

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35
papers

1,211
citations

394421

19
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

659
citing authors

#	ARTICLE	IF	CITATIONS
1	CH^3 <p>Suppression of combustion mode transitions in a hydrogen-fueled scramjet combustor by a multi-channel gliding arc plasma. Combustion and Flame, 2022, 237, 111843.</p>	3.2	7
2	Imaging-based harmonic frequency analysis of a bluff-body premixed flame under acoustic excitations. Aerospace Science and Technology, 2022, 120, 107254.	4.8	7
3	Experimental investigation of flameholding in a cavity-based scramjet combustor by a multi-channel gliding arc. Aerospace Science and Technology, 2022, 121, 107381.	4.8	13
4	Discharge characteristics of a gliding arc discharge in a supersonic jet air flow. Physics of Plasmas, 2022, 29, .	1.9	4
5	Multi-channel gliding arc plasma-assisted ignition in a kerosene-fueled model scramjet engine. Aerospace Science and Technology, 2022, 126, 107606.	4.8	14
6	Ignition and combustion enhancement in a cavity-based supersonic combustor by a multi-channel gliding arc plasma. Experimental Thermal and Fluid Science, 2021, 120, 110248.	2.7	59
7	Quantitative feature extraction of turbulent premixed flames by photofragmentation laser-induced fluorescence. Optical Engineering, 2021, 60, .	1.0	9
8	Blow-off characteristics of a premixed methane/air flame response to acoustic disturbances in a longitudinal combustor. Aerospace Science and Technology, 2021, 118, 107003.	4.8	15
9	PLIF measurements of instantaneous flame structures and curvature of an acoustically excited turbulent premixed flame. Aerospace Science and Technology, 2020, 104, 105950.	4.8	21
10	Dynamic characteristics of a gliding arc plasma-assisted ignition in a cavity-based scramjet combustor. Acta Astronautica, 2020, 171, 238-244.	3.2	32
11	Experimental investigation on gliding arc discharge plasma ignition and flame stabilization in scramjet combustor. Aerospace Science and Technology, 2018, 79, 145-153.	4.8	58
12	Re-igniting the afterglow plasma column of an AC powered gliding arc discharge in atmospheric-pressure air. Applied Physics Letters, 2018, 112, .	3.3	11
13	Effect of turbulent flow on an atmospheric-pressure AC powered gliding arc discharge. Journal of Applied Physics, 2018, 123, .	2.5	30
14	Spatiotemporally resolved characteristics of a gliding arc discharge in a turbulent air flow at atmospheric pressure. Physics of Plasmas, 2017, 24, .	1.9	50
15	In-Situ Non-intrusive Diagnostics of Toluene Removal by a Gliding Arc Discharge Using Planar Laser-Induced Fluorescence. Plasma Chemistry and Plasma Processing, 2017, 37, 433-450.	2.4	20
16	Characterization of an AC glow-type gliding arc discharge in atmospheric air with a current-voltage lumped model. Physics of Plasmas, 2017, 24, .	1.9	30
17	Experimental investigation of the shock loss and temporal evolution of hot plume resulting from dual-pulse laser-induced breakdown in quiescent air. Journal of Applied Physics, 2017, 122, .	2.5	21

#	ARTICLE	IF	CITATIONS
19	Visualization of the heat release zone of highly turbulent premixed jet flames. <i>Acta Astronautica</i> , 2017, 139, 258-265.	3.2	10
20	Translational, rotational, vibrational and electron temperatures of a gliding arc discharge. <i>Optics Express</i> , 2017, 25, 20243.	3.4	77
21	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	53
22	Sustained diffusive alternating current gliding arc discharge in atmospheric pressure air. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	58
23	Stray light suppression in spectroscopy using periodic shadowing. <i>Optics Express</i> , 2014, 22, 7711.	3.4	43
24	Stability of alternating current gliding arcs. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	16
25	Dynamics, OH distributions and UV emission of a gliding arc at various flow-rates investigated by optical measurements. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 295203.	2.8	72
26	Water-cooled non-thermal gliding arc for adhesion improvement of glass-fibre-reinforced polyester. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 135203.	2.8	38
27	In-situ Measurement of Sodium and Potassium Release during Oxy-Fuel Combustion of Lignite using Laser-Induced Breakdown Spectroscopy: Effects of O ₂ and CO ₂ Concentration. <i>Energy & Fuels</i> , 2013, 27, 1123-1130.	5.1	97
28	Analysis of Maximum Extractable Power of Single-Frequency Yb^{3+} -Doped Phosphate Fiber Sources. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 480-484.	1.9	13
29	Experimental study on the polarization extinction ratio degradation in high power hybrid fiber amplifier chains employing PM/non-PM Yb-doped fibers. <i>Optics and Laser Technology</i> , 2012, 44, 35-38.	4.6	4
30	Experimental study of SBS suppression and coherence property of 1064nm high power multi-tone fiber amplifier. <i>Optics and Laser Technology</i> , 2012, 44, 247-250.	4.6	1
31	A 275-W Multitone Driven All-Fiber Amplifier Seeded by a Phase-Modulated Single-Frequency Laser for Coherent Beam Combining. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 980-982.	2.5	10
32	Power scaling analysis of tandem-pumped Yb-doped fiber lasers and amplifiers. <i>Optics Express</i> , 2011, 19, 18645.	3.4	117
33	Coherent beam combination of 108 kW fiber amplifier array using single frequency dithering technique. <i>Optics Letters</i> , 2011, 36, 951.	3.3	146
34	Phase-locked polarization maintaining narrow linewidth Yb-doped fiber laser array. , 2010, , .		0
35	Experimental study of the SBS effect in multitone-driven narrow-linewidth high-power all-fiber amplifiers. , 2010, , .		2