

Jiajian Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,211
citations

394421

19
h-index

377865

34
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36
all docs

36
docs citations

36
times ranked

659
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent beam combination of 108 kW fiber amplifier array using single frequency dithering technique. <i>Optics Letters</i> , 2011, 36, 951.	3.3	146
2	Power scaling analysis of tandem-pumped Yb-doped fiber lasers and amplifiers. <i>Optics Express</i> , 2011, 19, 18645.	3.4	117
3	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
4	Translational, rotational, vibrational and electron temperatures of a gliding arc discharge. <i>Optics Express</i> , 2017, 25, 20243.	3.4	77
5	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
6	Ignition and combustion enhancement in a cavity-based supersonic combustor by a multi-channel gliding arc plasma. <i>Experimental Thermal and Fluid Science</i> , 2021, 120, 110248.	2.7	59
7	Sustained diffusive alternating current gliding arc discharge in atmospheric pressure air. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	58
8	Experimental investigation on gliding arc discharge plasma ignition and flame stabilization in scramjet combustor. <i>Aerospace Science and Technology</i> , 2018, 79, 145-153.	4.8	58
9	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	53
10	Spatiotemporally resolved characteristics of a gliding arc discharge in a turbulent air flow at atmospheric pressure. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	50
11	Stray light suppression in spectroscopy using periodic shadowing. <i>Optics Express</i> , 2014, 22, 7711.	3.4	43
12	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
13	Dynamic characteristics of a gliding arc plasma-assisted ignition in a cavity-based scramjet combustor. <i>Acta Astronautica</i> , 2020, 171, 238-244.	3.2	32
14	Characterization of an AC glow-type gliding arc discharge in atmospheric air with a current-voltage lumped model. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	30
15	Effect of turbulent flow on an atmospheric-pressure AC powered gliding arc discharge. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	30
16	Suppression of combustion mode transitions in a hydrogen-fueled scramjet combustor by a multi-channel gliding arc plasma. <i>Combustion and Flame</i> , 2022, 237, 111843.	5.2	30
17	Experimental investigation of the shock loss and temporal evolution of hot plume resulting from dual-pulse laser-induced breakdown in quiescent air. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	21
18	PLIF measurements of instantaneous flame structures and curvature of an acoustically excited turbulent premixed flame. <i>Aerospace Science and Technology</i> , 2020, 104, 105950.	4.8	21

#	ARTICLE	IF	CITATIONS
19	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
20	Stability of alternating current gliding arcs. European Physical Journal D, 2014, 68, 1.	1.3	16
21	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
22	Multi-channel gliding arc plasma-assisted ignition in a kerosene-fueled model scramjet engine. Aerospace Science and Technology, 2022, 126, 107606.	4.8	14
23	Analysis of Maximum Extractable Power of Single-Frequency Yb^{3+} -Doped Phosphate Fiber Sources. IEEE Journal of Quantum Electronics, 2012, 48, 480-484.	1.9	13
24	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
25	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
26	A 275-W Multitone Driven All-Fiber Amplifier Seeded by a Phase-Modulated Single-Frequency Laser for Coherent Beam Combining. IEEE Photonics Technology Letters, 2011, 23, 980-982.	2.5	10
27	Visualization of the heat release zone of highly turbulent premixed jet flames. Acta Astronautica, 2017, 139, 258-265.	3.2	10
28	Quantitative feature extraction of turbulent premixed flames by photofragmentation laser-induced fluorescence. Optical Engineering, 2021, 60, .	1.0	9
29	Simultaneous CH and C_2 imaging-based harmonic frequency analysis of a bluff-body premixed flame under acoustic excitations. Aerospace Science and Technology, 2022, 120, 107254.	3.2	7
30	Imaging-based harmonic frequency analysis of a bluff-body premixed flame under acoustic excitations. Aerospace Science and Technology, 2022, 120, 107254.	4.8	7
31	Experimental study on the polarization extinction ratio degradation in high power hybrid fiber amplifier chains employing PM/non-PM Yb-doped fibers. Optics and Laser Technology, 2012, 44, 35-38.	4.6	4
32	Discharge characteristics of a gliding arc discharge in a supersonic jet air flow. Physics of Plasmas, 2022, 29, .	1.9	4
33	Experimental study of the SBS effect in multitone-driven narrow-linewidth high-power all-fiber amplifiers. , 2010, , .		2
34	Experimental study of SBS suppression and coherence property of 1064nm high power multi-tone fiber amplifier. Optics and Laser Technology, 2012, 44, 247-250.	4.6	1
35	Phase-locked polarization maintaining narrow linewidth Yb-doped fiber laser array. , 2010, , .		0