

Zhongshan Li

List of Publications by Year in descending order

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185
papers

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185
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	A detailed study on the micro-explosion of burning iron particles in hot oxidizing environments. <i>Combustion and Flame</i> , 2022, 238, 111755.	5.2	21
2	Spatiotemporal control of femtosecond laser filament-triggered discharge and its application in diagnosing gas flow fields. <i>Plasma Science and Technology</i> , 2022, 24, 025402.	1.5	2
3	Quantitative Hydrogen Chloride Detection in Combustion Environments Using Tunable Diode Laser Absorption Spectroscopy with Comprehensive Investigation of Hot Water Interference. <i>Applied Spectroscopy</i> , 2022, 76, 207-215.	2.2	6
4	Flame structure and burning velocity of ammonia/air turbulent premixed flames at high Karlovitz number conditions. <i>Combustion and Flame</i> , 2022, 238, 111943.	5.2	21
5	Quantitative laser diagnostics on trimethylindium pyrolysis and photolysis for functional nanoparticle growth. <i>Measurement Science and Technology</i> , 2022, 33, 055201.	2.6	2
6	Understanding the characteristics of non-equilibrium alternating current gliding arc discharge in a variety of gas mixtures (air, N ₂ , Ar, Ar/O ₂ , and Ar/CH ₄) at elevated pressures (1–5 atm). <i>Physics of Plasmas</i> , 2022, 29, .	1.9	2
7	Structure and scalar correlation of ammonia/air turbulent premixed flames in the distributed reaction zone regime. <i>Combustion and Flame</i> , 2022, 241, 112090.	5.2	17
8	Ignition and combustion behavior of single micron-sized iron particle in hot gas flow. <i>Combustion and Flame</i> , 2022, 241, 112099.	5.2	22
9	Simultaneous measurements of velocity and concentration of gas flow using femtosecond laser-induced chemiluminescence. <i>Optics and Lasers in Engineering</i> , 2022, 155, 107060.	3.8	1
10	On-line compositional measurements of AuAg aerosol nanoparticles generated by spark ablation using optical emission spectroscopy. <i>Journal of Aerosol Science</i> , 2022, 165, 106041.	3.8	8
11	Participation of alkali and sulfur in ammonia combustion chemistry: Investigation for ammonia/solid fuel co-firing applications. <i>Combustion and Flame</i> , 2022, 244, 112236.	5.2	7
12	Temporal temperature measurement on burning biomass pellets using phosphor thermometry and two-line atomic fluorescence. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3929-3938.	3.9	17
13	Saturation Dependence of Flame Thermometry Using Mid-IR Degenerate Four Wave Mixing. <i>Applied Spectroscopy</i> , 2021, 75, 107-114.	2.2	3
14	Quantitative K-Cl-S chemistry in thermochemical conversion processes using in situ optical diagnostics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5219-5227.	3.9	10
15	Mid-infrared laser-induced thermal grating spectroscopy of hot water lines for flame thermometry. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1885-1893.	3.9	8
16	Particle temperature and potassium release during combustion of single pulverized biomass char particles. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3949-3958.	3.9	7
17	Experimental Investigation of Plasma Discharge Effect on Swirl Flames at a Scaled Siemens Dry Low Emission Burner. , 2021, , .		0
18	Structure and Laminar Flame Speed of an Ammonia/Methane/Air Premixed Flame under Varying Pressure and Equivalence Ratio. <i>Energy & Fuels</i> , 2021, 35, 7179-7192.	5.1	60

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19	Ultraviolet Absorption Cross-Sections of Ammonia at Elevated Temperatures for Nonintrusive Quantitative Detection in Combustion Environments. <i>Applied Spectroscopy</i> , 2021, 75, 1168-1177.	2.2	13
20	Investigation of laser-induced grating spectroscopy of O_2 for accurate temperature measurements towards applications in harsh environments. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1569-1581.	2.5	2
21	Recent Development in Numerical Simulations and Experimental Studies of Biomass Thermochemical Conversion. <i>Energy & Fuels</i> , 2021, 35, 6940-6963.	5.1	45
22	Clustering-based particle detection method for digital holography to detect the three-dimensional location and in-plane size of particles. <i>Measurement Science and Technology</i> , 2021, 32, 055205.	2.6	27
23	Investigation of turbulent premixed methane/air and hydrogen-enriched methane/air flames in a laboratory-scale gas turbine model combustor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13377-13388.	7.1	32
24	Laser-induced thermal grating spectroscopy based on femtosecond laser multi-photon absorption. <i>Scientific Reports</i> , 2021, 11, 9829.	3.3	8
25	Quantification of the size, 3D location and velocity of burning iron particles in premixed methane flames using high-speed digital in-line holography. <i>Combustion and Flame</i> , 2021, 230, 111430.	5.2	22
26	Planar laser-induced photofragmentation fluorescence for quantitative ammonia imaging in combustion environments. <i>Combustion and Flame</i> , 2021, 235, 111687.	5.2	1
27	Stereoscopic high-speed imaging of iron microexplosions and nanoparticle-release. <i>Optics Express</i> , 2021, 29, 34465.	3.4	25
28	Airborne Gold Nanoparticle Detection Using Photoluminescence Excited with a Continuous Wave Laser. <i>Applied Spectroscopy</i> , 2021, 75, 1402-1409.	2.2	4
29	Quantitative imaging of KOH vapor in combustion environments using 266 nm laser-induced photofragmentation fluorescence. <i>Combustion and Flame</i> , 2021, 235, 111713.	5.2	1
30	Propagation of Darrieus-Landau unstable laminar and turbulent expanding flames. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2013-2021.	3.9	13
31	Investigation of Hydrogen Content and Dilution Effect on Syngas/Air Premixed Turbulent Flame Using OH Planar Laser-Induced Fluorescence. <i>Processes</i> , 2021, 9, 1894.	2.8	4
32	Simultaneous Quantitative Detection of HCN and C_2H_2 in Combustion Environment Using TDLAS. <i>Processes</i> , 2021, 9, 2033.	2.8	10
33	Ammonia Measurements with Femtosecond Two-Photon Laser-Induced Fluorescence in Premixed NH_3 /Air Flames. <i>Energy & Fuels</i> , 2020, 34, 1177-1183.	5.1	7
34	Thermal analysis of a high-power glow discharge in flowing atmospheric air by combining Rayleigh scattering thermometry and numerical simulation. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 085502.	2.8	3
35	Quantitative imaging of potassium release from single burning pulverized biomass char particles. <i>Fuel</i> , 2020, 264, 116866.	6.4	20
36	Structures of inverse jet flames stabilized on a coaxial burner. <i>Energy</i> , 2020, 193, 116757.	8.8	9

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37	Flame investigations of a laboratory-scale CECOST swirl burner at atmospheric pressure conditions. <i>Fuel</i> , 2020, 279, 118421.	6.4	13
38	Dual-Laser-Induced Breakdown Thermometry via Sound Speed Measurement: A New Procedure for Improved Spatiotemporal Resolution. <i>Sensors</i> , 2020, 20, 2803.	3.8	4
39	Optical measurements of KOH, KCl and K for quantitative K-Cl chemistry in thermochemical conversion processes. <i>Fuel</i> , 2020, 271, 117643.	6.4	22
40	One-dimensional full-range mixture fraction measurements with femtosecond laser-induced plasma spectroscopy. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	2
41	Investigation of Dilution Effect on CH ₄ /Air Premixed Turbulent Flame Using OH and CH ₂ O Planar Laser-Induced Fluorescence. <i>Energies</i> , 2020, 13, 325.	3.1	1
42	Shedding light on the governing mechanisms for insufficient CO and H ₂ burnout in the presence of potassium, chlorine and sulfur. <i>Fuel</i> , 2020, 273, 117762.	6.4	19
43	Single particle ignition and combustion of pulverized pine wood, wheat straw, rice husk and grape pomace. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2663-2671.	3.9	33
44	Visualization of instantaneous structure and dynamics of large-scale turbulent flames stabilized by a gliding arc discharge. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5629-5636.	3.9	42
45	Stabilization of a turbulent premixed flame by a plasma filament. <i>Combustion and Flame</i> , 2019, 208, 79-85.	5.2	25
46	PAHs and soot formation in laminar partially premixed co-flow flames fuelled by PRFs at elevated pressures. <i>Combustion and Flame</i> , 2019, 206, 363-378.	5.2	21
47	Quantitative SO ₂ Detection in Combustion Environments Using Broad Band Ultraviolet Absorption and Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2019, 91, 10849-10855.	6.5	24
48	Effects of Flame Temperature on PAHs and Soot Evolution in Partially Premixed and Diffusion Flames of a Diesel Surrogate. <i>Energy & Fuels</i> , 2019, 33, 11821-11829.	5.1	50
49	Numerical simulation of ignition mode and ignition delay time of pulverized biomass particles. <i>Combustion and Flame</i> , 2019, 206, 400-410.	5.2	31
50	Layered structure around an extended gliding discharge column in a methane-nitrogen mixture at high pressure. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	3
51	Development of novel ultrasonic temperature measurement technology for combustion gas as a potential indicator of combustion instability diagnostics. <i>Applied Thermal Engineering</i> , 2019, 159, 113905.	6.0	17
52	Spatially and temporally resolved IR-DFWM measurement of HCN released from gasification of biomass pellets. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1337-1344.	3.9	13
53	A Review of Femtosecond Laser-Induced Emission Techniques for Combustion and Flow Field Diagnostics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1906.	2.5	21
54	Infrared Degenerate Four-wave Mixing with Upconversion Detection for Quantitative Gas Sensing. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	1

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55	Ultraviolet Absorption Cross Sections of KOH and KCl for Nonintrusive Species-Specific Quantitative Detection in Hot Flue Gases. <i>Analytical Chemistry</i> , 2019, 91, 4719-4726.	6.5	25
56	Biomass steam gasification in bubbling fluidized bed for higher-H ₂ syngas: CFD simulation with coarse grain model. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6448-6460.	7.1	60
57	Instantaneous one-dimensional ammonia measurements with femtosecond two-photon laser-induced fluorescence (fs-TPLIF). <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25740-25745.	7.1	4
58	Mid-Infrared Polarization Spectroscopy Measurements of Species Concentrations and Temperature in a Low-Pressure Flame. <i>Applied Spectroscopy</i> , 2019, 73, 653-664.	2.2	10
59	Structure and burning velocity of turbulent premixed methane/air jet flames in thin-reaction zone and distributed reaction zone regimes. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2537-2544.	3.9	28
60	Characteristics of a Gliding Arc Discharge Under the Influence of a Laminar Premixed Flame. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 403-409.	1.3	7
61	Femtosecond-laser electronic-excitation tagging velocimetry using a 267 nm laser. <i>Sensors and Actuators A: Physical</i> , 2019, 287, 138-142.	4.1	5
62	Ammonia measurements with femtosecond laser-induced plasma spectroscopy. <i>Applied Optics</i> , 2019, 58, 1210.	1.8	10
63	Femtosecond laser-induced plasma spectroscopy for combustion diagnostics in premixed ammonia/air flames. <i>Applied Optics</i> , 2019, 58, 7810.	1.8	17
64	Instantaneous one-dimensional equivalence ratio measurements in methane/air mixtures using femtosecond laser-induced plasma spectroscopy. <i>Optics Express</i> , 2019, 27, 2159.	3.4	19
65	Enhancement of femtosecond laser-induced plasma fluorescence using a nanosecond laser. <i>Optics Express</i> , 2019, 27, 5755.	3.4	6
66	Comparison of an InSb Detector and Upconversion Detector for Infrared Polarization Spectroscopy. <i>Applied Spectroscopy</i> , 2018, 72, 793-797.	2.2	9
67	Optical investigation of gas-phase KCl/KOH sulfation in post flame conditions. <i>Fuel</i> , 2018, 224, 461-468.	6.4	31
68	Instantaneous imaging of ozone in a gliding arc discharge using photofragmentation laser-induced fluorescence. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 135203.	2.8	10
69	Laser diagnostics and chemical kinetic analysis of PAHs and soot in co-flow partially premixed flames using diesel surrogate and oxygenated additives of n-butanol and DMF. <i>Combustion and Flame</i> , 2018, 188, 129-141.	5.2	93
70	Spatially Resolved Temperature Measurements Above a Burning Wood Pellet Using Diode Laser-Based Two-Line Atomic Fluorescence. <i>Applied Spectroscopy</i> , 2018, 72, 964-970.	2.2	12
71	Numerical and Experimental Investigation of the CeCOST Swirl Burner. , 2018, , .		5
72	Applicability of Femtosecond Laser Electronic Excitation Tagging in Combustion Flow Field Velocity Measurements. <i>Applied Spectroscopy</i> , 2018, 72, 1807-1813.	2.2	6

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73	Re-igniting the afterglow plasma column of an AC powered gliding arc discharge in atmospheric-pressure air. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	11
74	Spectrally Resolved Ultraviolet (UV) Absorption Cross-Sections of Alkali Hydroxides and Chlorides Measured in Hot Flue Gases. <i>Applied Spectroscopy</i> , 2018, 72, 1388-1395.	2.2	18
75	Femtosecond laser-induced cyano chemiluminescence in methane-seeded nitrogen gas flows for near-wall velocimetry. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 295102.	2.8	9
76	Filamentary anemometry using femtosecond laser-extended electric discharge - FALED. <i>Optics Express</i> , 2018, 26, 21132.	3.4	9
77	Temporally and spectrally resolved images of single burning pulverized wheat straw particles. <i>Fuel</i> , 2018, 224, 434-441.	6.4	29
78	Gas Temperature Measurement Using Differential Optical Absorption Spectroscopy (DOAS). <i>Applied Spectroscopy</i> , 2018, 72, 1014-1020.	2.2	9
79	Effect of turbulent flow on an atmospheric-pressure AC powered gliding arc discharge. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	30
80	Investigations of Microwave Stimulation of Turbulent Flames with Implications to Gas Turbine Combustors. , 2017, , .		0
81	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
82	In-Situ Non-intrusive Diagnostics of Toluene Removal by a Gliding Arc Discharge Using Planar Laser-Induced Fluorescence. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 433-450.	2.4	20
83	Direct numerical simulations of a high Karlovitz number laboratory premixed jet flame “an analysis of flame stretch and flame thickening. <i>Journal of Fluid Mechanics</i> , 2017, 815, 511-536.	3.4	114
84	Quantitative Measurement of Atomic Potassium in Plumes over Burning Solid Fuels Using Infrared-Diode Laser Spectroscopy. <i>Energy & Fuels</i> , 2017, 31, 2831-2837.	5.1	34
85	Effects of CH ₄ Content on NO Formation in One-Dimensional Adiabatic Flames Investigated by Saturated Laser-Induced Fluorescence and CHEMKIN Modeling. <i>Energy & Fuels</i> , 2017, 31, 3154-3163.	5.1	9
86	Multi-species PLIF study of the structures of turbulent premixed methane/air jet flames in the flamelet and thin-reaction zones regimes. <i>Combustion and Flame</i> , 2017, 182, 324-338.	5.2	35
87	Development of an alkali chloride vapour-generating apparatus for calibration of ultraviolet absorption measurements. <i>Review of Scientific Instruments</i> , 2017, 88, 023112.	1.3	8
88	Online Alkali Measurement during Oxy-fuel Combustion. <i>Energy Procedia</i> , 2017, 120, 365-372.	1.8	7
89	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
90	A novel multi-jet burner for hot flue gases of wide range of temperatures and compositions for optical diagnostics of solid fuels gasification/combustion. <i>Review of Scientific Instruments</i> , 2017, 88, 045104.	1.3	34

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91	Experimental investigations of potassium chemistry in premixed flames. <i>Fuel</i> , 2017, 203, 802-810.	6.4	19
92	Strategy for improved NH ₂ detection in combustion environments using an Alexandrite laser. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 235-242.	3.9	17
93	Diode laser-based thermometry using two-line atomic fluorescence of indium and gallium. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 278.	2.2	33
94	Laser-Induced Photofragmentation Fluorescence Imaging of Alkali Compounds in Flames. <i>Applied Spectroscopy</i> , 2017, 71, 1289-1299.	2.2	18
95	A comparison between direct numerical simulation and experiment of the turbulent burning velocity-related statistics in a turbulent methane-air premixed jet flame at high Karlovitz number. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2045-2053.	3.9	80
96	Thin reaction zone and distributed reaction zone regimes in turbulent premixed methane/air flames: Scalar distributions and correlations. <i>Combustion and Flame</i> , 2017, 175, 220-236.	5.2	72
97	Strategy of interference-free atomic hydrogen detection in flames using femtosecond multi-photon laser-induced fluorescence. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3876-3880.	7.1	10
98	Mid-infrared laser-induced thermal grating spectroscopy in flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4515-4523.	3.9	18
99	Strategy for single-shot CH ₃ imaging in premixed methane/air flames using photofragmentation laser-induced fluorescence. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4487-4495.	3.9	16
100	Characterization of the reaction zone structures in a laboratory combustor using optical diagnostics: from flame to flameless combustion. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4305-4312.	3.9	23
101	Translational, rotational, vibrational and electron temperatures of a gliding arc discharge. <i>Optics Express</i> , 2017, 25, 20243.	3.4	77
102	Comprehensive CO detection in flames using femtosecond two-photon laser-induced fluorescence. <i>Optics Express</i> , 2017, 25, 25809.	3.4	14
103	Experimental Study on Bluff-Body Stabilized Premixed Flame with a Central Air/Fuel Jet. <i>Energies</i> , 2017, 10, 2011.	3.1	6
104	Setup for microwave stimulation of a turbulent low-swirl flame. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 185601.	2.8	8
105	Misalignment Effects in Laser-Induced Grating Experiments. <i>Applied Spectroscopy</i> , 2016, 70, 2025-2028.	2.2	3
106	Strategies for Quantitative Planar Laser-Induced Fluorescence of NH Radicals in Flames. <i>Combustion Science and Technology</i> , 2016, 188, 529-541.	2.3	18
107	Mid-Infrared Pumped Laser-Induced Thermal Grating Spectroscopy for Detection of Acetylene in the Visible Spectral Range. <i>Applied Spectroscopy</i> , 2016, 70, 1034-1043.	2.2	15
108	Temperature imaging in low-pressure flames using diode laser two-line atomic fluorescence employing a novel indium seeding technique. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	17

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109	Investigation of roâ€vibrational spectra of small hydrocarbons at elevated temperatures using infrared degenerate fourâ€wave mixing. Journal of Raman Spectroscopy, 2016, 47, 1130-1139.	2.5	8
110	Nonâ€intrusive, <i>in situ</i> detection of ammonia in hot gas flows with midâ€infrared degenerate fourâ€wave mixing at 2.3â€µm. Journal of Raman Spectroscopy, 2016, 47, 1140-1148.	2.5	7
111	Investigation of NO formation in premixed adiabatic laminar flames of H ₂ /CO syngas and air by saturated laser-induced fluorescence and kinetic modeling. Combustion and Flame, 2016, 164, 283-293.	5.2	28
112	Structure of premixed ammonia+air flames at atmospheric pressure: Laser diagnostics and kinetic modeling. Combustion and Flame, 2016, 163, 370-381.	5.2	83
113	Gas-Phase and Combustion Diagnostics by Infrared Laser-Induced Grating Spectroscopy. , 2016, , .		0
114	Nonâ€intrusive <i>in situ</i> detection of methyl chloride in hot gas flows using infrared degenerate fourâ€wave mixing. Journal of Raman Spectroscopy, 2015, 46, 695-701.	2.5	13
115	Methyl Radical Imaging in Methaneâ€Air Flames Using Laser Photofragmentation-Induced Fluorescence. Applied Spectroscopy, 2015, 69, 1152-1156.	2.2	12
116	Vapor phase tri-methyl-indium seeding system suitable for high temperature spectroscopy and thermometry. Review of Scientific Instruments, 2015, 86, 093107.	1.3	10
117	Single-shot, planar infrared imaging in flames using polarization spectroscopy. Optics Express, 2015, 23, 30414.	3.4	4
118	Simultaneous multi-species and temperature visualization of premixed flames in the distributed reaction zone regime. Proceedings of the Combustion Institute, 2015, 35, 1409-1416.	3.9	83
119	Development and application of CN PLIF for single-shot imaging in turbulent flames. Combustion and Flame, 2015, 162, 368-374.	5.2	11
120	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. Applied Physics Letters, 2015, 106, .	3.3	53
121	Investigation of formaldehyde enhancement by ozone addition in CH ₄ /air premixed flames. Combustion and Flame, 2015, 162, 1284-1293.	5.2	22
122	Analysis of in-cylinder H ₂ O ₂ and HO ₂ distributions in an HCCI engine â€ Comparison of laser-diagnostic results with CFD and SRM simulations. Combustion and Flame, 2015, 162, 3131-3139.	5.2	25
123	Experimental apparatus with full optical access for combustion experiments with laminar flames from a single circular nozzle at elevated pressures. Review of Scientific Instruments, 2015, 86, 035115.	1.3	12
124	Observation of gliding arc surface treatment. Surface Engineering, 2015, 31, 282-288.	2.2	19
125	Visualization of multi-regime turbulent combustion in swirl-stabilized lean premixed flames. Combustion and Flame, 2015, 162, 2954-2958.	5.2	31
126	Numerical and experimental study of flame propagation and quenching of lean premixed turbulent low swirl flames at different Reynolds numbers. Combustion and Flame, 2015, 162, 2582-2591.	5.2	13

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127	Distributed reactions in highly turbulent premixed methane/air flames. Combustion and Flame, 2015, 162, 2937-2953.	5.2	117
128	Impact of plasma dynamics on equivalence ratio measurements by laser-induced breakdown spectroscopy. Applied Optics, 2015, 54, 4221.	2.1	15
129	Sustained diffusive alternating current gliding arc discharge in atmospheric pressure air. Applied Physics Letters, 2014, 105, .	3.3	58
130	Upconversion enhanced degenerate four-wave mixing in the mid-infrared for sensitive detection of acetylene in gas flows. Proceedings of SPIE, 2014, , .	0.8	1
131	Low-noise mid-IR upconversion detector for improved IR-degenerate four-wave mixing gas sensing. Optics Letters, 2014, 39, 5321.	3.3	47
132	Spectroscopic characterization of aluminum plasma using laser-induced breakdown spectroscopy. Optik, 2014, 125, 2851-2855.	2.9	14
133	Stability of alternating current gliding arcs. European Physical Journal D, 2014, 68, 1.	1.3	16
134	Dynamics, OH distributions and UV emission of a gliding arc at various flow-rates investigated by optical measurements. Journal Physics D: Applied Physics, 2014, 47, 295203.	2.8	72
135	Strategy for PLIF single-shot HCO imaging in turbulent methane/air flames. Combustion and Flame, 2014, 161, 1566-1574.	5.2	37
136	Laser-Induced Fluorescence Detection of Hot Molecular Oxygen in Flames Using an Alexandrite Laser. Applied Spectroscopy, 2014, 68, 1266-1273.	2.2	2
137	Effect of Partial Premixing on Stabilization and Local Extinction of Turbulent Methane/Air Flames. Flow, Turbulence and Combustion, 2013, 90, 269-284.	2.6	17
138	Laser-induced breakdown spectroscopy in a partially premixed turbulent jet flame. Measurement Science and Technology, 2013, 24, 075205.	2.6	18
139	Planar Laser-Induced Fluorescence Diagnostics for Spatiotemporal OH Evolution in Pulsed Corona Discharge. IEEE Transactions on Plasma Science, 2013, 41, 485-493.	1.3	7
140	Simultaneous visualization of OH, CH, CH ₂ O and toluene PLIF in a methane jet flame with varying degrees of turbulence. Proceedings of the Combustion Institute, 2013, 34, 1475-1482.	3.9	72
141	Water-cooled non-thermal gliding arc for adhesion improvement of glass-fibre-reinforced polyester. Journal Physics D: Applied Physics, 2013, 46, 135203.	2.8	38
142	Post-flame gas-phase sulfation of potassium chloride. Combustion and Flame, 2013, 160, 959-969.	5.2	72
143	Measurements of NO concentration in NH ₃ -doped CH ₄ +air flames using saturated laser-induced fluorescence and probe sampling. Combustion and Flame, 2013, 160, 40-46.	5.2	50
144	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. Energy & Fuels, 2013, 27, 1123-1130.	5.1	97

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145	Optical diagnostics of a gliding arc. <i>Optics Express</i> , 2013, 21, 6028.	3.4	75
146	Experiments on plasma assisted combustion using a dielectric barrier surface discharge. , 2013, , .		0
147	Experiments on plasma assisted combustion using a dielectric barrier surface discharge. , 2013, , .		0
148	Atmospheric Pressure Acetylene Detection by UV Photo-Fragmentation and Induced C ₂ Emission. <i>Applied Spectroscopy</i> , 2013, 67, 66-72.	2.2	4
149	An in situ set up for the detection of CO ₂ from catalytic CO oxidation by using planar laser-induced fluorescence. <i>Review of Scientific Instruments</i> , 2012, 83, 053104.	1.3	35
150	Laser-induced breakdown flame thermometry. <i>Combustion and Flame</i> , 2012, 159, 3576-3582.	5.2	63
151	PLIF diagnostics of NO oxidation and OH consumption in pulsed corona discharge. <i>Fuel</i> , 2012, 102, 729-736.	6.4	10
152	Investigation of laminar flame speeds of typical syngas using laser based Bunsen method and kinetic simulation. <i>Fuel</i> , 2012, 95, 206-213.	6.4	73
153	Laser-induced Breakdown Spectroscopy: A Simple but Versatile Tool for Combustion Diagnostics. , 2012, , .		2
154	High-Speed Imaging of Fuel/OH Distributions in a Gas Turbine Pilot Burner at Elevated Pressure. , 2011, , .		1
155	Sodium and Potassium Released from Burning Particles of Brown Coal and Pine Wood in a Laminar Premixed Methane Flame Using Quantitative Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2011, 65, 684-691.	2.2	68
156	Laser-induced plasma in methane and dimethyl ether for flame ignition and combustion diagnostics. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 229-236.	2.2	56
157	Premixed jet flame characteristics of syngas using OH planar laser induced fluorescence. <i>Science Bulletin</i> , 2011, 56, 2862-2868.	1.7	13
158	Flame temperature diagnostics with water lines using mid-infrared degenerate four-wave mixing. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1828-1835.	2.5	18
159	Mid-infrared polarization spectroscopy: A tool for <i>in situ</i> measurements of toxic gases in smoke-laden environments. <i>Fire and Materials</i> , 2011, 35, 527-537.	2.0	13
160	Visualization and understanding of combustion processes using spatially and temporally resolved laser diagnostic techniques. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 69-97.	3.9	133
161	Detection of C ₂ H ₂ and HCl using mid-infrared degenerate four-wave mixing with stable beam alignment: towards practical <i>in situ</i> sensing of trace molecular species. <i>Applied Physics B: Lasers and Optics</i> , 2010, 98, 593-600.	2.2	30
162	Quantitative C ₂ H ₂ measurements in sooty flames using mid-infrared polarization spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 423-432.	2.2	25

#	ARTICLE	IF	CITATIONS
163	Laser-induced breakdown spectroscopy in gases using ungated detection in combination with polarization filtering and online background correction. <i>Measurement Science and Technology</i> , 2010, 21, 065303.	2.6	29
164	Detection of Flame Radicals Using Light-Emitting Diodes. <i>Applied Spectroscopy</i> , 2010, 64, 1330-1334.	2.2	11
165	OH laser thermometry using laser polarization spectroscopy and laser-induced fluorescence spectroscopy in the OH A ² Σ^+ (1,0) band. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 828-835.	2.5	19
166	Optical emission enhancement of laser-produced copper plasma under a steady magnetic field. <i>Applied Optics</i> , 2009, 48, B105.	2.1	59
167	Visualization of Biomass Pyrolysis and Temperature Imaging in a Heated-Grid Reactor. <i>Energy & Fuels</i> , 2009, 23, 993-1006.	5.1	14
168	Spatially resolved trace detection of HCl in flames with mid-infrared polarization spectroscopy. <i>Optics Letters</i> , 2008, 33, 1836.	3.3	25
169	Two-Dimensional Temperature Measurements in Flames Using Filtered Rayleigh Scattering at 254 nm. <i>Applied Spectroscopy</i> , 2008, 62, 778-783.	2.2	26
170	Detection of HCl in a premixed H ₂ /O ₂ /Ar flame seeded with CHCl ₃ using mid-IR polarization spectroscopy. , 2008, , .		0
171	Midinfrared polarization spectroscopy of OH and hot water in low pressure lean premixed flames. <i>Journal of Chemical Physics</i> , 2007, 127, 084310.	3.0	30
172	Single-shot imaging of ground-state hydrogen atoms with a nonlinear laser spectroscopic technique. <i>Optics Letters</i> , 2007, 32, 1569.	3.3	10
173	Application of Two-Photon Laser-Induced Fluorescence for Single-Shot Visualization of Carbon Monoxide in a Spark Ignited Engine. <i>Applied Spectroscopy</i> , 2007, 61, 1-5.	2.2	28
174	Simultaneous laser-induced fluorescence and sub-Doppler polarization spectroscopy of the CH radical. <i>Optics Communications</i> , 2007, 270, 347-352.	2.1	28
175	High resolution polarization spectroscopy and laser induced fluorescence of CO ₂ around 2 μ m. <i>European Physical Journal D</i> , 2007, 42, 41-47.	1.3	20
176	Visible-to-ultraviolet upconversion in Pr ³⁺ :Y ₂ SiO ₅ crystals. <i>Chemical Physics</i> , 2006, 325, 563-566.	1.9	52
177	Strategies for Formaldehyde Detection in Flames and Engines Using a Single-Mode Nd:YAG/OPO Laser System. <i>Applied Spectroscopy</i> , 2005, 59, 763-768.	2.2	17
178	Applications of a single-longitudinal-mode alexandrite laser for diagnostics of parameters of combustion interest. <i>Review of Scientific Instruments</i> , 2004, 75, 3208-3215.	1.3	30
179	Laser-induced fluorescence of formaldehyde in combustion using third harmonic Nd:YAG laser excitation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 3347-3356.	3.9	113
180	Core-polarization effects and radiative lifetime measurements in Pr III. <i>Physical Review A</i> , 2001, 64, .	2.5	34

#	ARTICLE	IF	CITATIONS
181	New f-values in neutral lead obtained by time-resolved laser spectroscopy, and astrophysical applications. Monthly Notices of the Royal Astronomical Society, 2000, 312, 116-122.	4.4	56
182	Lifetime measurements in Ce I, Ce II, and Ce III using time-resolved laser spectroscopy with application to stellar abundance determinations of cerium. Physical Review A, 2000, 62, .	2.5	36
183	Polycrystalline germanium dioxide hollow-core fibers and their performance. Infrared Physics and Technology, 1997, 38, 193-199.	2.9	9
184	Plasma Effects on Swirl Flames in a Scaled Dry Low Emission Burner. AIAA Journal, 0, , 1-8.	2.6	2
185	Non-thermal gliding arc discharge assisted turbulent combustion (up to 80 kW) at extended conditions: phenomenological analysis. Combustion Science and Technology, 0, , 1-16.	2.3	1