Zhongshan Li

List of Publications by Year
in descending order

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Version: 2024-02-01

185	4,531	109321	155660
papers	citations	35 h-index	55 g-index

185	185	185	2429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualization and understanding of combustion processes using spatially and temporally resolved laser diagnostic techniques. Proceedings of the Combustion Institute, 2011, 33, 69-97.	3.9	133
2	Distributed reactions in highly turbulent premixed methane/air flames. Combustion and Flame, 2015, 162, 2937-2953.	5.2	117
3	Direct numerical simulations of a high Karlovitz number laboratory premixed jet flame â€“ an analysis of flame stretch and flame thickening. Journal of Fluid Mechanics, 2017, 815, 511-536.	3.4	114
4	Laser-induced fluorescence of formaldehyde in combustion using third harmonic Nd:YAG laser excitation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 3347-3356.	3.9	113
5	In-situ Measurement of Sodium and Potassium Release during Oxy-Fuel Combustion of Lignite using Laser-Induced Breakdown Spectroscopy: Effects of O₂ and CO₂ Concentration. Energy & Fuels, 2013, 27, 1123-1130.	5.1	97
6	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. Combustion and Flame, 2018, 188, 129-141.	5.2	93
7	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
8	Structure of premixed ammoniaÂ+Âair flames at atmospheric pressure: Laser diagnostics and kinetic modeling. Combustion and Flame, 2016, 163, 370-381.	5.2	83
9	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. Proceedings of the Combustion Institute, 2017, 36, 2045-2053.	3.9	80
10	Translational, rotational, vibrational and electron temperatures of a gliding arc discharge. Optics Express, 2017, 25, 20243.	3.4	77
11	Optical diagnostics of a gliding arc. Optics Express, 2013, 21, 6028.	3.4	75
12	Investigation of laminar flame speeds of typical syngas using laser based Bunsen method and kinetic simulation. Fuel, 2012, 95, 206-213.	6.4	73
13	Simultaneous visualization of OH, CH, CH2O 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
14	Post-flame gas-phase sulfation of potassium chloride. Combustion and Flame, 2013, 160, 959-969.	5.2	72
15	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
16	Thin reaction zone and distributed reaction zone regimes in turbulent premixed methane/air flames: Scalar distributions and correlations. Combustion and Flame, 2017, 175, 220-236.	5.2	72
17	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. Applied Spectroscopy, 2011, 65, 684-691.	2.2	68
18	Laser-induced breakdown flame thermometry. Combustion and Flame, 2012, 159, 3576-3582.	5.2	63

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19	Biomass steam gasification in bubbling fluidized bed for higher-H2 syngas: CFD simulation with coarse grain model. International Journal of Hydrogen Energy, 2019, 44, 6448-6460.	7.1	60
20	Structure and Laminar Flame Speed of an Ammonia/Methane/Air Premixed Flame under Varying Pressure and Equivalence Ratio. Energy & Fuels, 2021, 35, 7179-7192.	5.1	60
21	Optical emission enhancement of laser-produced copper plasma under a steady magnetic field. Applied Optics, 2009, 48, B105.	2.1	59
22	Sustained diffusive alternating current gliding arc discharge in atmospheric pressure air. Applied Physics Letters, 2014, 105, .	3.3	58
23	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
24	Laser-induced plasma in methane and dimethyl ether for flame ignition and combustion diagnostics. Applied Physics B: Lasers and Optics, 2011, 103, 229-236.	2.2	56
25	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. Applied Physics Letters, 2015, 106, .	3.3	53
26	Visible-to-ultraviolet upconversion in Pr3+:Y2SiO5 crystals. Chemical Physics, 2006, 325, 563-566.	1.9	52
27	Measurements of NO concentration in NH3-doped CH4+air flames using saturated laser-induced fluorescence and probe sampling. Combustion and Flame, 2013, 160, 40-46.	5.2	50
28	Spatiotemporally resolved characteristics of a gliding arc discharge in a turbulent air flow at atmospheric pressure. Physics of Plasmas, 2017, 24, .	1.9	50
29	Effects of Flame Temperature on PAHs and Soot Evolution in Partially Premixed and Diffusion Flames of a Diesel Surrogate. Energy & Fuels, 2019, 33, 11821-11829.	5.1	50
30	Low-noise mid-IR upconversion detector for improved IR-degenerate four-wave mixing gas sensing. Optics Letters, 2014, 39, 5321.	3.3	47
31	Recent Development in Numerical Simulations and Experimental Studies of Biomass Thermochemical Conversion. Energy & Fuels, 2021, 35, 6940-6963.	5.1	45
32	Visualization of instantaneous structure and dynamics of large-scale turbulent flames stabilized by a gliding arc discharge. Proceedings of the Combustion Institute, 2019, 37, 5629-5636.	3.9	42
33	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
34	Strategy for PLIF single-shot HCO imaging in turbulent methane/air flames. Combustion and Flame, 2014, 161, 1566-1574.	5.2	37
35	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
36	Anin situset up for the detection of CO2from catalytic CO oxidation by using planar laser-induced fluorescence. Review of Scientific Instruments, 2012, 83, 053104.	1.3	35

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37	Multi-species PLIF study of the structures of turbulent premixed methane/air jet flames in the flamelet and thin-reaction zones regimes. Combustion and Flame, 2017, 182, 324-338.	5.2	35
38	Core-polarization effects and radiative lifetime measurements in Pr III. Physical Review A, 2001, 64, .	2.5	34
39	Quantitative Measurement of Atomic Potassium in Plumes over Burning Solid Fuels Using Infrared-Diode Laser Spectroscopy. Energy & Fuels, 2017, 31, 2831-2837.	5.1	34
40	A novel multi-jet burner for hot flue gases of wide range of temperatures and compositions for optical diagnostics of solid fuels gasification/combustion. Review of Scientific Instruments, 2017, 88, 045104.	1.3	34
41	Diode laser-based thermometry using two-line atomic fluorescence of indium and gallium. Applied Physics B: Lasers and Optics, 2017, 123, 278.	2.2	33
42	Single particle ignition and combustion of pulverized pine wood, wheat straw, rice husk and grape pomace. Proceedings of the Combustion Institute, 2019, 37, 2663-2671.	3.9	33
43	Investigation of turbulent premixed methane/air and hydrogen-enriched methane/air flames in a laboratory-scale gas turbine model combustor. International Journal of Hydrogen Energy, 2021, 46, 13377-13388.	7.1	32
44	Visualization of multi-regime turbulent combustion in swirl-stabilized lean premixed flames. Combustion and Flame, 2015, 162, 2954-2958.	5.2	31
45	Optical investigation of gas-phase KCl/KOH sulfation in post flame conditions. Fuel, 2018, 224, 461-468.	6.4	31
46	Numerical simulation of ignition mode and ignition delay time of pulverized biomass particles. Combustion and Flame, 2019, 206, 400-410.	5.2	31
47	Applications of a single-longitudinal-mode alexandrite laser for diagnostics of parameters of combustion interest. Review of Scientific Instruments, 2004, 75, 3208-3215.	1.3	30
48	Midinfrared polarization spectroscopy of OH and hot water in low pressure lean premixed flames. Journal of Chemical Physics, 2007, 127, 084310.	3.0	30
49	Detection of C2H2 and HCl using mid-infrared degenerate four-wave mixing with stable beam alignment: towards practical in situ sensing of trace molecular species. Applied Physics B: Lasers and Optics, 2010, 98, 593-600.	2.2	30
50	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
51	Effect of turbulent flow on an atmospheric-pressure AC powered gliding arc discharge. Journal of Applied Physics, 2018, 123, .	2.5	30
52	Laser-induced breakdown spectroscopy in gases using ungated detection in combination with polarization filtering and online background correction. Measurement Science and Technology, 2010, 21, 065303.	2.6	29
53	Temporally and spectrally resolved images of single burning pulverized wheat straw particles. Fuel, 2018, 224, 434-441.	6.4	29
54	Application of Two-Photon Laser-Induced Fluorescence for Single-Shot Visualization of Carbon Monoxide in a Spark Ignited Engine. Applied Spectroscopy, 2007, 61, 1-5.	2.2	28

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55	Simultaneous laser-induced fluorescence and sub-Doppler polarization spectroscopy of the CH radical. Optics Communications, 2007, 270, 347-352.	2.1	28
56	Investigation of NO formation in premixed adiabatic laminar flames of H2/CO syngas and air by saturated laser-induced fluorescence and kinetic modeling. Combustion and Flame, 2016, 164, 283-293.	5.2	28
57	Structure and burning velocity of turbulent premixed methane/air jet flames in thin-reaction zone and distributed reaction zone regimes. Proceedings of the Combustion Institute, 2019, 37, 2537-2544.	3.9	28
58	Clustering-based particle detection method for digital holography to detect the three-dimensional location and in-plane size of particles. Measurement Science and Technology, 2021, 32, 055205.	2.6	27
59	Two-Dimensional Temperature Measurements in Flames Using Filtered Rayleigh Scattering at 254 nm. Applied Spectroscopy, 2008, 62, 778-783.	2.2	26
60	Spatially resolved trace detection of HCl in flames with mid-infrared polarization spectroscopy. Optics Letters, 2008, 33, 1836.	3.3	25
61	Quantitative C2H2 measurements in sooty flames usingÂmid-infrared polarization spectroscopy. Applied Physics B: Lasers and Optics, 2010, 101, 423-432.	2.2	25
62	Analysis of in-cylinder H2O2 and HO2 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
63	Stabilization of a turbulent premixed flame by a plasma filament. Combustion and Flame, 2019, 208, 79-85.	5.2	25
64	Ultraviolet Absorption Cross Sections of KOH and KCl for Nonintrusive Species-Specific Quantitative Detection in Hot Flue Gases. Analytical Chemistry, 2019, 91, 4719-4726.	6.5	25
65	Stereoscopic high-speed imaging of iron microexplosions and nanoparticle-release. Optics Express, 2021, 29, 34465.	3.4	25
66	Quantitative SO₂ Detection in Combustion Environments Using Broad Band Ultraviolet Absorption and Laser-Induced Fluorescence. Analytical Chemistry, 2019, 91, 10849-10855.	6.5	24
67	Characterization of the reaction zone structures in a laboratory combustor using optical diagnostics: from flame to flameless combustion. Proceedings of the Combustion Institute, 2017, 36, 4305-4312.	3.9	23
68	Investigation of formaldehyde enhancement by ozone addition in CH4/air premixed flames. Combustion and Flame, 2015, 162, 1284-1293.	5.2	22
69	Optical measurements of KOH, KCl and K for quantitative K-Cl chemistry in thermochemical conversion processes. Fuel, 2020, 271, 117643.	6.4	22
70	Quantification of the size, 3D location and velocity of burning iron particles in premixed methane flames using high-speed digital in-line holography. Combustion and Flame, 2021, 230, 111430.	5.2	22
71	Ignition and combustion behavior of single micron-sized iron particle in hot gas flow. Combustion and Flame, 2022, 241, 112099.	5.2	22
72	PAHs and soot formation in laminar partially premixed co-flow flames fuelled by PRFs at elevated pressures. Combustion and Flame, 2019, 206, 363-378.	5.2	21

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73	A Review of Femtosecond Laser-Induced Emission Techniques for Combustion and Flow Field Diagnostics. Applied Sciences (Switzerland), 2019, 9, 1906.	2.5	21
74	A detailed study on the micro-explosion of burning iron particles in hot oxidizing environments. Combustion and Flame, 2022, 238, 111755.	5.2	21
75	Flame structure and burning velocity of ammonia/air turbulent premixed flames at high Karlovitz number conditions. Combustion and Flame, 2022, 238, 111943.	5.2	21
76	High resolution polarization spectroscopy and laser induced fluorescence of CO2 around 2Î¼m. European Physical Journal D, 2007, 42, 41-47.	1.3	20
77	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
78	Quantitative imaging of potassium release from single burning pulverized biomass char particles. Fuel, 2020, 264, 116866.	6.4	20
79	OHâ€thermometry using laser polarization spectroscopy and laserâ€induced fluorescence spectroscopy in the OH Aâ€X (1,0) band. Journal of Raman Spectroscopy, 2009, 40, 828-835.	2.5	19
80	Observation of gliding arc surface treatment. Surface Engineering, 2015, 31, 282-288.	2.2	19
81	Experimental investigations of potassium chemistry in premixed flames. Fuel, 2017, 203, 802-810.	6.4	19
82	Shedding light on the governing mechanisms for insufficient CO and H2 burnout in the presence of potassium, chlorine and sulfur. Fuel, 2020, 273, 117762.	6.4	19
83	Instantaneous one-dimensional equivalence ratio measurements in methane/air mixtures using femtosecond laser-induced plasma spectroscopy. Optics Express, 2019, 27, 2159.	3.4	19
84	Flame temperature diagnostics with water lines using midâ€infrared degenerate fourâ€wave mixing. Journal of Raman Spectroscopy, 2011, 42, 1828-1835.	2.5	18
85	Laser-induced breakdown spectroscopy in a partially premixed turbulent jet flame. Measurement Science and Technology, 2013, 24, 075205.	2.6	18
86	Strategies for Quantitative Planar Laser-Induced Fluorescence of NH Radicals in Flames. Combustion Science and Technology, 2016, 188, 529-541.	2.3	18
87	Laser-Induced Photofragmentation Fluorescence Imaging of Alkali Compounds in Flames. Applied Spectroscopy, 2017, 71, 1289-1299.	2.2	18
88	Mid-infrared laser-induced thermal grating spectroscopy in flames. Proceedings of the Combustion Institute, 2017, 36, 4515-4523.	3.9	18
89	Spectrally Resolved Ultraviolet (UV) Absorption Cross-Sections of Alkali Hydroxides and Chlorides Measured in Hot Flue Gases. Applied Spectroscopy, 2018, 72, 1388-1395.	2.2	18
90	Strategies for Formaldehyde Detection in Flames and Engines Using a Single-Mode Nd:YAG/OPO Laser System. Applied Spectroscopy, 2005, 59, 763-768.	2.2	17

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91	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
92	Temperature imaging in low-pressure flames using diode laser two-line atomic fluorescence employing a novel indium seeding technique. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	17
93	Strategy for improved NH 2 detection in combustion environments using an Alexandrite laser. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 184, 235-242.	3.9	17
94	Development of novel ultrasonic temperature measurement technology for combustion gas as a potential indicator of combustion instability diagnostics. Applied Thermal Engineering, 2019, 159, 113905.	6.0	17
95	Temporal temperature measurement on burning biomass pellets using phosphor thermometry and two-line atomic fluorescence. Proceedings of the Combustion Institute, 2021, 38, 3929-3938.	3.9	17
96	Femtosecond laser-induced plasma spectroscopy for combustion diagnostics in premixed ammonia/air flames. Applied Optics, 2019, 58, 7810.	1.8	17
97	Structure and scalar correlation of ammonia/air turbulent premixed flames in the distributed reaction zone regime. Combustion and Flame, 2022, 241, 112090.	5.2	17
98	Stability of alternating current gliding arcs. European Physical Journal D, 2014, 68, 1.	1.3	16
99	Strategy for single-shot CH3 imaging in premixed methane/air flames using photofragmentation laser-induced fluorescence. Proceedings of the Combustion Institute, 2017, 36, 4487-4495.	3.9	16
100	Impact of plasma dynamics on equivalence ratio measurements by laser-induced breakdown spectroscopy. Applied Optics, 2015, 54, 4221.	2.1	15
101	Mid-Infrared Pumped Laser-Induced Thermal Grating Spectroscopy for Detection of Acetylene in the Visible Spectral Range. Applied Spectroscopy, 2016, 70, 1034-1043.	2.2	15
102	Visualization of Biomass Pyrolysis and Temperature Imaging in a Heated-Grid Reactor. Energy & Fuels, 2009, 23, 993-1006.	5.1	14
103	Spectroscopic characterization of aluminum plasma using laser-induced breakdown spectroscopy. Optik, 2014, 125, 2851-2855.	2.9	14
104	Comprehensive CO detection in flames using femtosecond two-photon laser-induced fluorescence. Optics Express, 2017, 25, 25809.	3.4	14
105	Premixed jet flame characteristics of syngas using OH planar laser induced fluorescence. Science Bulletin, 2011, 56, 2862-2868.	1.7	13
106	Midâ€infrared polarization spectroscopy: A tool for in situ measurements of toxic gases in smokeâ€laden environments. Fire and Materials, 2011, 35, 527-537.	2.0	13
107	Nonâ€intrusive in situ 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
108	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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109	Spatially and temporally resolved IR-DFWM measurement of HCN released from gasification of biomass pellets. Proceedings of the Combustion Institute, 2019, 37, 1337-1344.	3.9	13
110	Flame investigations of a laboratory-scale CECOST swirl burner at atmospheric pressure conditions. Fuel, 2020, 279, 118421.	6.4	13
111	Ultraviolet Absorption Cross-Sections of Ammonia at Elevated Temperatures for Nonintrusive Quantitative Detection in Combustion Environments. Applied Spectroscopy, 2021, 75, 1168-1177.	2.2	13
112	Propagation of Darrieusâ€“Landau unstable laminar and turbulent expanding flames. Proceedings of the Combustion Institute, 2021, 38, 2013-2021.	3.9	13
113	Methyl Radical Imaging in Methaneâ€“Air Flames Using Laser Photofragmentation-Induced Fluorescence. Applied Spectroscopy, 2015, 69, 1152-1156.	2.2	12
114	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
115	Spatially Resolved Temperature Measurements Above a Burning Wood Pellet Using Diode Laser-Based Two-Line Atomic Fluorescence. Applied Spectroscopy, 2018, 72, 964-970.	2.2	12
116	Detection of Flame Radicals Using Light-Emitting Diodes. Applied Spectroscopy, 2010, 64, 1330-1334.	2.2	11
117	Development and application of CN PLIF for single-shot imaging in turbulent flames. Combustion and Flame, 2015, 162, 368-374.	5.2	11
118	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
119	Single-shot imaging of ground-state hydrogen atoms with a nonlinear laser spectroscopic technique. Optics Letters, 2007, 32, 1569.	3.3	10
120	PLIF diagnostics of NO oxidization and OH consumption in pulsed corona discharge. Fuel, 2012, 102, 729-736.	6.4	10
121	Vapor phase tri-methyl-indium seeding system suitable for high temperature spectroscopy and thermometry. Review of Scientific Instruments, 2015, 86, 093107.	1.3	10
122	Strategy of interference-free atomic hydrogen detection in flames using femtosecond multi-photon laser-induced fluorescence. International Journal of Hydrogen Energy, 2017, 42, 3876-3880.	7.1	10
123	Instantaneous imaging of ozone in a gliding arc discharge using photofragmentation laser-induced fluorescence. Journal Physics D: Applied Physics, 2018, 51, 135203.	2.8	10
124	Mid-Infrared Polarization Spectroscopy Measurements of Species Concentrations and Temperature in a Low-Pressure Flame. Applied Spectroscopy, 2019, 73, 653-664.	2.2	10
125	Quantitative K-Cl-S chemistry in thermochemical conversion processes using in situ optical diagnostics. Proceedings of the Combustion Institute, 2021, 38, 5219-5227.	3.9	10
126	Ammonia measurements with femtosecond laser-induced plasma spectroscopy. Applied Optics, 2019, 58, 1210.	1.8	10

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127	Simultaneous Quantitative Detection of HCN and C2H2 in Combustion Environment Using TDLAS. Processes, 2021, 9, 2033.	2.8	10
128	Polycrystalline germanium dioxide hollow-core fibers and their performance. Infrared Physics and Technology, 1997, 38, 193-199.	2.9	9
129	Effects of CH₄ Content on NO Formation in One-Dimensional Adiabatic Flames Investigated by Saturated Laser-Induced Fluorescence and CHEMKIN Modeling. Energy & Fuels, 2017, 31, 3154-3163.	5.1	9
130	Comparison of an InSb Detector and Upconversion Detector for Infrared Polarization Spectroscopy. Applied Spectroscopy, 2018, 72, 793-797.	2.2	9
131	Femtosecond laser-induced cyano chemiluminescence in methane-seeded nitrogen gas flows for near-wall velocimetry. Journal Physics D: Applied Physics, 2018, 51, 295102.	2.8	9
132	Filamentary anemometry using femtosecond laser-extended electric discharge - FALED. Optics Express, 2018, 26, 21132.	3.4	9
133	Gas Temperature Measurement Using Differential Optical Absorption Spectroscopy (DOAS). Applied Spectroscopy, 2018, 72, 1014-1020.	2.2	9
134	Structures of inverse jet flames stabilized on a coaxial burner. Energy, 2020, 193, 116757.	8.8	9
135	Setup for microwave stimulation of a turbulent low-swirl flame. Journal Physics D: Applied Physics, 2016, 49, 185601.	2.8	8
136	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
137	Development of an alkali chloride vapour-generating apparatus for calibration of ultraviolet absorption measurements. Review of Scientific Instruments, 2017, 88, 023112.	1.3	8
138	Mid-infrared laser-induced thermal grating spectroscopy of hot water lines for flame thermometry. Proceedings of the Combustion Institute, 2021, 38, 1885-1893.	3.9	8
139	Laser-induced thermal grating spectroscopy based on femtosecond laser multi-photon absorption. Scientific Reports, 2021, 11, 9829.	3.3	8
140	On-line compositional measurements of AuAg aerosol nanoparticles generated by spark ablation using optical emission spectroscopy. Journal of Aerosol Science, 2022, 165, 106041.	3.8	8
141	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
142	Nonâ€intrusive, in situ detection of ammonia in hot gas flows with midâ€infrared degenerate fourâ€wave mixing at 2.3â€‰Âµm. Journal of Raman Spectroscopy, 2016, 47, 1140-1148.	2.5	7
143	Online Alkali Measurement during Oxy-fuel Combustion. Energy Procedia, 2017, 120, 365-372.	1.8	7
144	Characteristics of a Gliding Arc Discharge Under the Influence of a Laminar Premixed Flame. IEEE Transactions on Plasma Science, 2019, 47, 403-409.	1.3	7

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145	Ammonia Measurements with Femtosecond Two-Photon Laser-Induced Fluorescence in Premixed NH₃/Air Flames. Energy & Fuels, 2020, 34, 1177-1183.	5.1	7
146	Particle temperature and potassium release during combustion of single pulverized biomass char particles. Proceedings of the Combustion Institute, 2021, 38, 3949-3958.	3.9	7
147	Participation of alkali and sulfur in ammonia combustion chemistry: Investigation for ammonia/solid fuel co-firing applications. Combustion and Flame, 2022, 244, 112236.	5.2	7
148	Experimental Study on Bluff-Body Stabilized Premixed Flame with a Central Air/Fuel Jet. Energies, 2017, 10, 2011.	3.1	6
149	Applicability of Femtosecond Laser Electronic Excitation Tagging in Combustion Flow Field Velocity Measurements. Applied Spectroscopy, 2018, 72, 1807-1813.	2.2	6
150	Enhancement of femtosecond laser-induced plasma fluorescence using a nanosecond laser. Optics Express, 2019, 27, 5755.	3.4	6
151	Quantitative Hydrogen Chloride Detection in Combustion Environments Using Tunable Diode Laser Absorption Spectroscopy with Comprehensive Investigation of Hot Water Interference. Applied Spectroscopy, 2022, 76, 207-215.	2.2	6
152	Numerical and Experimental Investigation of the CeCOST Swirl Burner. , 2018, , .		5
153	Femtosecond-laser electronic-excitation tagging velocimetry using a 267 nm laser. Sensors and Actuators A: Physical, 2019, 287, 138-142.	4.1	5
154	Atmospheric Pressure Acetylene Detection by UV Photo-Fragmentation and Induced C₂ Emission. Applied Spectroscopy, 2013, 67, 66-72.	2.2	4
155	Single-shot, planar infrared imaging in flames using polarization spectroscopy. Optics Express, 2015, 23, 30414.	3.4	4
156	Instantaneous one-dimensional ammonia measurements with femtosecond two-photon laser-induced fluorescence (fs-TPLIF). International Journal of Hydrogen Energy, 2019, 44, 25740-25745.	7.1	4
157	Dual-Laser-Induced Breakdown Thermometry via Sound Speed Measurement: A New Procedure for Improved Spatiotemporal Resolution. Sensors, 2020, 20, 2803.	3.8	4
158	Airborne Gold Nanoparticle Detection Using Photoluminescence Excited with a Continuous Wave Laser. Applied Spectroscopy, 2021, 75, 1402-1409.	2.2	4
159	Investigation of Hydrogen Content and Dilution Effect on Syngas/Air Premixed Turbulent Flame Using OH Planar Laser-Induced Fluorescence. Processes, 2021, 9, 1894.	2.8	4
160	Misalignment Effects in Laser-Induced Grating Experiments. Applied Spectroscopy, 2016, 70, 2025-2028.	2.2	3
161	Layered structure around an extended gliding discharge column in a methane-nitrogen mixture at high pressure. Applied Physics Letters, 2019, 114, .	3.3	3
162	Thermal analysis of a high-power glow discharge in flowing atmospheric air by combining Rayleigh scattering thermometry and numerical simulation. Journal Physics D: Applied Physics, 2020, 53, 085502.	2.8	3

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163	Saturation Dependence of Flame Thermometry Using Mid-IR Degenerate Four Wave Mixing. Applied Spectroscopy, 2021, 75, 107-114.	2.2	3
164	Laser-Induced Fluorescence Detection of Hot Molecular Oxygen in Flames Using an Alexandrite Laser. Applied Spectroscopy, 2014, 68, 1266-1273.	2.2	2
165	One-dimensional full-range mixture fraction measurements with femtosecond laser-induced plasma spectroscopy. Experiments in Fluids, 2020, 61, 1.	2.4	2
166	Investigation of laserâ€induced grating spectroscopy of O₂ for accurate temperature measurements towards applications in harsh environments. Journal of Raman Spectroscopy, 2021, 52, 1569-1581.	2.5	2
167	Laser-induced Breakdown Spectroscopy: A Simple but Versatile Tool for Combustion Diagnostics. , 2012, , .		2
168	Spatiotemporal control of femtosecond laser filament-triggered discharge and its application in diagnosing gas flow fields. Plasma Science and Technology, 2022, 24, 025402.	1.5	2
169	Quantitative laser diagnostics on trimethylindium pyrolysis and photolysis for functional nanoparticle growth. Measurement Science and Technology, 2022, 33, 055201.	2.6	2
170	Plasma Effects on Swirl Flames in a Scaled Dry Low Emission Burner. AIAA Journal, 0, , 1-8.	2.6	2
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