

Xin Yu

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,161
citations

567281

15
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

428
citing authors

#	ARTICLE	IF	CITATIONS
1	Flame features and oscillation characteristics in near-blowout swirl-stabilized flames using high-speed OH-PLIF and mode decomposition methods. Chinese Journal of Aeronautics, 2023, 36, 191-200.	5.3	2
2	Combustion oscillation characteristics of a supersonic ethylene jet flame using high-speed planar laser-induced fluorescence and dynamic mode decomposition. Energy, 2022, 239, 122330.	8.8	14
3	Flame characteristics of a cavity-based scramjet combustor using OH-PLIF and feature extraction. International Journal of Hydrogen Energy, 2022, 47, 20662-20675.	7.1	7
4	Diagnosis and staging of multiple myeloma using serum-based laser-induced breakdown spectroscopy combined with machine learning methods. Biomedical Optics Express, 2021, 12, 3584.	2.9	16
5	Experimental study of flame evolution, frequency and oscillation characteristics of steam diluted micro-mixing hydrogen flame. Fuel, 2021, 301, 121078.	6.4	13
6	Investigation of mineral-element migration upon pyrolysis and quantitative prediction of volatiles in coal using laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2021, 36, 1399-1409.	3.0	8
7	Study on the combustion behaviours of two high-volatile coal particle streams with high-speed OH-PLIF. Fuel, 2020, 265, 116956.	6.4	23
8	Ultra-high sensitive trace gas detection based on light-induced thermoelastic spectroscopy and a custom quartz tuning fork. Applied Physics Letters, 2020, 116, .	3.3	90
9	Oscillation characterization of volatile combustion of single coal particles with multi-species optical diagnostic techniques. Fuel, 2020, 282, 118845.	6.4	10
10	Analysis of combustion instability of hydrogen fueled scramjet combustor on high-speed OH-PLIF measurements and dynamic mode decomposition. International Journal of Hydrogen Energy, 2020, 45, 13108-13118.	7.1	35
11	A Sensitive Carbon Monoxide Sensor Based on Photoacoustic Spectroscopy with a 2.3 μ m Mid-Infrared High-Power Laser and Enhanced Gas Absorption. Sensors, 2019, 19, 3202.	3.8	14
12	A Sensitive Carbon Dioxide Sensor Based on Photoacoustic Spectroscopy with a Fixed Wavelength Quantum Cascade Laser. Sensors, 2019, 19, 4187.	3.8	18
13	Statistical Analysis of Volatile Combustion Time-Characteristics of Single Coal Particles Using High-Speed OH-PLIF. Energy & Fuels, 2019, 33, 12742-12748.	5.1	6
14	Highly sensitive acetylene detection based on multi-pass retro-reflection-cavity-enhanced photoacoustic spectroscopy and a fiber amplified diode laser. Optics Express, 2019, 27, 14163.	3.4	57
15	Ultra-high sensitive light-induced thermoelastic spectroscopy sensor with a high Q-factor quartz tuning fork and a multipass cell. Optics Letters, 2019, 44, 1904.	3.3	108
16	Visualization study on vortex structure over an airfoil using planar laser induced fluorescence. Spectroscopy Letters, 2018, 51, 367-372.	1.0	1
17	High-Power DFB Diode Laser-Based CO-QEPAS Sensor: Optimization and Performance. Sensors, 2018, 18, 122.	3.8	13
18	Quartz-Enhanced Photoacoustic Spectroscopy Sensor with a Small-Gap Quartz Tuning Fork. Sensors, 2018, 18, 2047.	3.8	13

#	ARTICLE	IF	CITATIONS
19	Quartz-tuning-fork enhanced photothermal spectroscopy for ultra-high sensitive trace gas detection. Optics Express, 2018, 26, 32103.	3.4	215
20	Ultra-high sensitive acetylene detection using quartz-enhanced photoacoustic spectroscopy with a fiber amplified diode laser and a 30.72â€‰kHz quartz tuning fork. Applied Physics Letters, 2017, 110, .	3.3	107
21	Stabilization of a premixed methane-air flame with a high repetition nanosecond laser-induced plasma. Optics and Laser Technology, 2017, 92, 24-31.	4.6	8
22	Repetitive Laser-Induced Plasma Ignition and Assisted Combustion of Premixed Methane/Air Flame. Combustion Science and Technology, 2017, 189, 1681-1697.	2.3	11
23	Continuous 100â€‰Hz planar laser-induced fluorescence applied to the study of combustion processes. Spectroscopy Letters, 2017, 50, 265-269.	1.0	5
24	Long distance, distributed gas sensing based on micro-nano fiber evanescent wave quartz-enhanced photoacoustic spectroscopy. Applied Physics Letters, 2017, 111, .	3.3	44
25	Ppb-level detection of ammonia based on QEPAS using a power amplified laser and a low resonance frequency quartz tuning fork. Optics Express, 2017, 25, 29356.	3.4	47
26	Ignition and Stabilization of a Premixed Methane/air Flame with Repetitive Laser-Induced Plasmas. , 2017, , .		1
27	Two-dimensional temperature characteristics of syngas flames with nitrogen, carbon dioxide, and steam diluents by planar laser-induced fluorescence thermometry. Spectroscopy Letters, 2016, 49, 482-490.	1.0	2
28	Compact all-fiber quartz-enhanced photoacoustic spectroscopy sensor with a 30.72â€‰kHz quartz tuning fork and spatially resolved trace gas detection. Applied Physics Letters, 2016, 108, .	3.3	41
29	HCl ppb-level detection based on QEPAS sensor using a low resonance frequency quartz tuning fork. Sensors and Actuators B: Chemical, 2016, 233, 388-393.	7.8	76
30	Laser ablation plasma-assisted stabilization of premixed methane/air flame. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	4
31	Multi-quartz-enhanced photoacoustic spectroscopy. Applied Physics Letters, 2015, 107, .	3.3	59
32	Sensitive detection of carbon monoxide based on a QEPAS sensor with a 2.3â€‰m fiber-coupled antimonide diode laser. Journal of Optics (United Kingdom), 2015, 17, 055401.	2.2	17
33	Quartz Enhanced Photoacoustic Spectroscopy Based Trace Gas Sensors Using Different Quartz Tuning Forks. Sensors, 2015, 15, 7596-7604.	3.8	33
34	Stabilization of Premixed High Flow Speed Methane/air Flames Using a Nanosecond Laser Induced Plasma. , 2015, , .		2
35	Laser ablation ignition of premixed methane and oxygen-enriched air mixtures using a tantalum target. Optics Letters, 2014, 39, 139.	3.3	11
36	Stabilization of a premixed CH ₄ /O ₂ /N ₂ flame using femtosecond laser-induced plasma. Optics Letters, 2012, 37, 2106.	3.3	8

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37	Plasma-assisted combustion of methane using a femtosecond laser. Optics Letters, 2011, 36, 1930.	3.3	9
38	Enhancement of a laminar premixed methane/oxygen/nitrogen flame speed using femtosecond-laser-induced plasma. Applied Physics Letters, 2010, 97, 011503.	3.3	12
39	High Power CW and A-O Q-switched Operation of 912 nm Nd:GdVO ₄ ; Laser. , 2007, , .		0
40	100kHz Narrow-Linewidth Burst-Mode MOPA Laser System With Uniform Envelope. Frontiers in Physics, 0, 10, .	2.1	1