Zhen Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4872811/publications.pdf

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26	1,015	471509	552781
papers	citations	17	26
		h-index	g-index

26	26	26	1110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual-comb photothermal spectroscopy. Nature Communications, 2022, 13, 2181.	12.8	34
2	Photothermal multi-species detection in a hollow-core fiber with frequency-division multiplexing. Sensors and Actuators B: Chemical, 2022, 369, 132333.	7.8	8
3	Time-resolved characterization of non-thermal plasma-assisted photocatalytic removal of nitric oxide. Journal Physics D: Applied Physics, 2020, 53, 01LT02.	2.8	4
4	Theoretical and Experimental Study of Heterodyne Phase-Sensitive Dispersion Spectroscopy with an Injection-Current-Modulated Quantum Cascade Laser. Sensors, 2020, 20, 6176.	3.8	5
5	Rapid field measurement of ventilation rate using a quartz-enhanced photoacoustic SF₆ gas sensor. Measurement Science and Technology, 2020, 31, 085105.	2.6	10
6	MHz-rate scanned-wavelength direct absorption spectroscopy using a distributed feedback diode laser at 2.3ÂÂµm. Optics and Laser Technology, 2020, 130, 106344.	4.6	31
7	Multipass-assisted dual-comb gas sensor for multi-species detection using a free-running fiber laser. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	10
8	Active modulation of intracavity laser intensity with the Poundâ€“Dreverâ€“Hall locking for photoacoustic spectroscopy. Optics Letters, 2020, 45, 1148.	3.3	14
9	Mid-infrared heterodyne phase-sensitive dispersion spectroscopy in flame measurements. Proceedings of the Combustion Institute, 2019, 37, 1329-1336.	3.9	20
10	Influence of Line Pair Selection on Flame Tomography Using Infrared Absorption Spectroscopy. Applied Spectroscopy, 2019, 73, 529-539.	2.2	32
11	Ultrasensitive photoacoustic detection in a high-finesse cavity with Poundâ€“Dreverâ€“Hall locking. Optics Letters, 2019, 44, 1924.	3.3	43
12	Interband cascade laser absorption sensor for real-time monitoring of formaldehyde filtration by a nanofiber membrane. Applied Optics, 2018, 57, 8005.	1.8	9
13	Temperature and H2O sensing in laminar premixed flames using mid-infrared heterodyne phase-sensitive dispersion spectroscopy. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	6
14	Fiber-ring laser intracavity QEPAS gas sensor using a 7.2â€¯kHz quartz tuning fork. Sensors and Actuators B: Chemical, 2018, 268, 512-518.	7.8	46
15	Quartz-Enhanced Photoacoustic Spectroscopy (QEPAS) Detection of the Î½₇ Band of Ethylene at Low Pressure with CO₂ Interference Analysis. Applied Spectroscopy, 2017, 71, 1834-1841.	2.2	17
16	A portable low-power QEPAS-based CO2 isotope sensor using a fiber-coupled interband cascade laser. Sensors and Actuators B: Chemical, 2017, 246, 710-715.	7.8	63
17	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. ACS Nano, 2017, 11, 5614-5622.	14.6	110
18	Improved evanescent-wave quartz-enhanced photoacoustic CO sensor using an optical fiber taper. Sensors and Actuators B: Chemical, 2017, 248, 1023-1028.	7.8	38

#	Article	IF	Citations
19	Theoretical and Experimental Investigation of Fiber-Ring Laser Intracavity Photoacoustic Spectroscopy (FLI-PAS) for Acetylene Detection. Journal of Lightwave Technology, 2017, 35, 4519-4525.	4.6	21
20	A Mid-Infrared Fiber-Coupled QEPAS Nitric Oxide Sensor for Real-Time Engine Exhaust Monitoring. IEEE Sensors Journal, 2017, 17, 7418-7424.	4.7	30
21	Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. ACS Nano, 2017, 11, 9854-9862.	14.6	285
22	Wavelength-stabilization-based photoacoustic spectroscopy for methane detection. Measurement Science and Technology, 2017, 28, 065102.	2.6	31
23	Fiber-ring laser-based intracavity photoacoustic spectroscopy for trace gas sensing. Optics Letters, 2017, 42, 2114.	3.3	40
24	Mid-infrared fiber-optic photothermal interferometry. Optics Letters, 2017, 42, 3718.	3.3	35
25	Quartz-enhanced photoacoustic detection of ethylene using a 105 Î¼m quantum cascade laser. Optics Express, 2016, 24, 4143.	3.4	52
26	Optical fiber tip-based quartz-enhanced photoacoustic sensor for trace gas detection. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	21