

Zhen Wang

List of Publications by Year in descending order

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26
papers

1,015
citations

471509

17
h-index

552781

26
g-index

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docs citations

26
times ranked

1110
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. <i>ACS Nano</i> , 2017, 11, 9854-9862.	14.6	285
2	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. <i>ACS Nano</i> , 2017, 11, 5614-5622.	14.6	110
3	A portable low-power QEPAS-based CO ₂ isotope sensor using a fiber-coupled interband cascade laser. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 710-715.	7.8	63
4	Quartz-enhanced photoacoustic detection of ethylene using a 105 $\frac{1}{4}$ μ m quantum cascade laser. <i>Optics Express</i> , 2016, 24, 4143.	3.4	52
5	Fiber-ring laser intracavity QEPAS gas sensor using a 7.2 μ Hz quartz tuning fork. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 512-518.	7.8	46
6	Ultrasensitive photoacoustic detection in a high-finesse cavity with Pound-Drever-Hall locking. <i>Optics Letters</i> , 2019, 44, 1924.	3.3	43
7	Fiber-ring laser-based intracavity photoacoustic spectroscopy for trace gas sensing. <i>Optics Letters</i> , 2017, 42, 2114.	3.3	40
8	Improved evanescent-wave quartz-enhanced photoacoustic CO sensor using an optical fiber taper. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 1023-1028.	7.8	38
9	Mid-infrared fiber-optic photothermal interferometry. <i>Optics Letters</i> , 2017, 42, 3718.	3.3	35
10	Dual-comb photothermal spectroscopy. <i>Nature Communications</i> , 2022, 13, 2181.	12.8	34
11	Influence of Line Pair Selection on Flame Tomography Using Infrared Absorption Spectroscopy. <i>Applied Spectroscopy</i> , 2019, 73, 529-539.	2.2	32
12	Wavelength-stabilization-based photoacoustic spectroscopy for methane detection. <i>Measurement Science and Technology</i> , 2017, 28, 065102.	2.6	31
13	MHz-rate scanned-wavelength direct absorption spectroscopy using a distributed feedback diode laser at 2.3 μ m. <i>Optics and Laser Technology</i> , 2020, 130, 106344.	4.6	31
14	A Mid-Infrared Fiber-Coupled QEPAS Nitric Oxide Sensor for Real-Time Engine Exhaust Monitoring. <i>IEEE Sensors Journal</i> , 2017, 17, 7418-7424.	4.7	30
15	Optical fiber tip-based quartz-enhanced photoacoustic sensor for trace gas detection. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	21
16	Theoretical and Experimental Investigation of Fiber-Ring Laser Intracavity Photoacoustic Spectroscopy (FLI-PAS) for Acetylene Detection. <i>Journal of Lightwave Technology</i> , 2017, 35, 4519-4525.	4.6	21
17	Mid-infrared heterodyne phase-sensitive dispersion spectroscopy in flame measurements. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1329-1336.	3.9	20
18	Quartz-Enhanced Photoacoustic Spectroscopy (QEPAS) Detection of the ν_2 Band of Ethylene at Low Pressure with CO ₂ Interference Analysis. <i>Applied Spectroscopy</i> , 2017, 71, 1834-1841.	2.2	17

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19	Active modulation of intracavity laser intensity with the Pound-Drever-Hall locking for photoacoustic spectroscopy. <i>Optics Letters</i> , 2020, 45, 1148.	3.3	14
20	Rapid field measurement of ventilation rate using a quartz-enhanced photoacoustic SF ₆ gas sensor. <i>Measurement Science and Technology</i> , 2020, 31, 085105.	2.6	10
21	Multipass-assisted dual-comb gas sensor for multi-species detection using a free-running fiber laser. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	10
22	Interband cascade laser absorption sensor for real-time monitoring of formaldehyde filtration by a nanofiber membrane. <i>Applied Optics</i> , 2018, 57, 8005.	1.8	9
23	Photothermal multi-species detection in a hollow-core fiber with frequency-division multiplexing. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132333.	7.8	8
24	Temperature and H ₂ O sensing in laminar premixed flames using mid-infrared heterodyne phase-sensitive dispersion spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	6
25	Theoretical and Experimental Study of Heterodyne Phase-Sensitive Dispersion Spectroscopy with an Injection-Current-Modulated Quantum Cascade Laser. <i>Sensors</i> , 2020, 20, 6176.	3.8	5
26	Time-resolved characterization of non-thermal plasma-assisted photocatalytic removal of nitric oxide. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 01LT02.	2.8	4