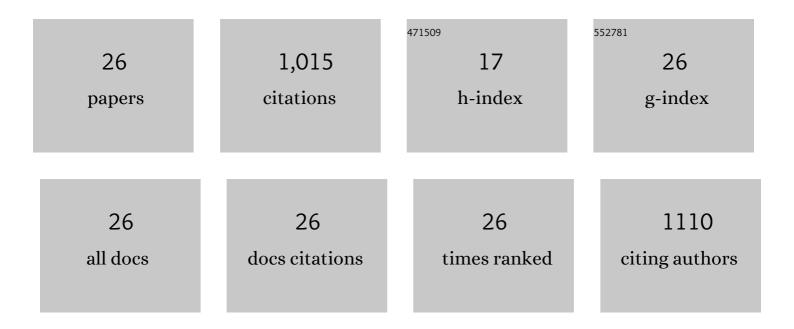
## Zhen Wang

List of Publications by Year in descending order

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ZHEN WANC

#	Article	IF	CITATIONS
1	Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. ACS Nano, 2017, 11, 9854-9862.	14.6	285
2	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. ACS Nano, 2017, 11, 5614-5622.	14.6	110
3	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
4	Quartz-enhanced photoacoustic detection of ethylene using a 105 μm quantum cascade laser. Optics Express, 2016, 24, 4143.	3.4	52
5	Fiber-ring laser intracavity QEPAS gas sensor using a 7.2â€ <sup>−</sup> kHz quartz tuning fork. Sensors and Actuators B: Chemical, 2018, 268, 512-518.	7.8	46
6	Ultrasensitive photoacoustic detection in a high-finesse cavity with Pound–Drever–Hall locking. Optics Letters, 2019, 44, 1924.	3.3	43
7	Fiber-ring laser-based intracavity photoacoustic spectroscopy for trace gas sensing. Optics Letters, 2017, 42, 2114.	3.3	40
8	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
9	Mid-infrared fiber-optic photothermal interferometry. Optics Letters, 2017, 42, 3718.	3.3	35
10	Dual-comb photothermal spectroscopy. Nature Communications, 2022, 13, 2181.	12.8	34
11	Influence of Line Pair Selection on Flame Tomography Using Infrared Absorption Spectroscopy. Applied Spectroscopy, 2019, 73, 529-539.	2.2	32
12	Wavelength-stabilization-based photoacoustic spectroscopy for methane detection. Measurement Science and Technology, 2017, 28, 065102.	2.6	31
13	MHz-rate scanned-wavelength direct absorption spectroscopy using a distributed feedback diode laser at 2.3µm. Optics and Laser Technology, 2020, 130, 106344.	4.6	31
14	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
15	Optical fiber tip-based quartz-enhanced photoacoustic sensor for trace gas detection. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	21
16	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
17	Mid-infrared heterodyne phase-sensitive dispersion spectroscopy in flame measurements. Proceedings of the Combustion Institute, 2019, 37, 1329-1336.	3.9	20
18	Quartz-Enhanced Photoacoustic Spectroscopy (QEPAS) Detection of the ν2 <sub>7</sub> Band of Ethylene at Low Pressure with CO <sub>2</sub> Interference Analysis. Applied Spectroscopy, 2017, 71, 1834-1841.	2.2	17

ZHEN WANG

#	Article	IF	CITATIONS
19	Active modulation of intracavity laser intensity with the Pound–Drever–Hall locking for photoacoustic spectroscopy. Optics Letters, 2020, 45, 1148.	3.3	14
20	Rapid field measurement of ventilation rate using a quartz-enhanced photoacoustic SF <sub>6</sub> gas sensor. Measurement Science and Technology, 2020, 31, 085105.	2.6	10
21	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
22	Interband cascade laser absorption sensor for real-time monitoring of formaldehyde filtration by a nanofiber membrane. Applied Optics, 2018, 57, 8005.	1.8	9
23	Photothermal multi-species detection in a hollow-core fiber with frequency-division multiplexing. Sensors and Actuators B: Chemical, 2022, 369, 132333.	7.8	8
24	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
25	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
26	Time-resolved characterization of non-thermal plasma-assisted photocatalytic removal of nitric oxide. Journal Physics D: Applied Physics, 2020, 53, 01LT02.	2.8	4