

Xuanbing Qiu

List of Publications by Year in descending order

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18
papers

373
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840776

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18
docs citations

18
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-ppb nitrogen dioxide detection based on resonant photoacoustic spectroscopy. Microwave and Optical Technology Letters, 2021, 63, 2058-2062.	1.4	24
2	A full-optical strain FBG sensor for in-situ monitoring of fatigue stages via tunable DFB laser demodulation. Optical and Quantum Electronics, 2021, 53, 1.	3.3	3
3	Defect measurement using the laser ultrasonic technique based on power spectral density analysis and wavelet packet energy. Microwave and Optical Technology Letters, 2021, 63, 2079-2084.	1.4	15
4	A portable laser-based sensor for detecting H ₂ S in domestic natural gas. Infrared Physics and Technology, 2020, 105, 103153.	2.9	24
5	A novel low-cost turbidity sensor for in-situ extraction in TCM using spectral components of transmitted and scattered light. Measurement: Journal of the International Measurement Confederation, 2020, 160, 107838.	5.0	5
6	Determining moisture content of Traditional Chinese Medicines using a near-infrared LED-based moisture content sensor with spectrum analysis. Optical and Quantum Electronics, 2019, 51, 1.	3.3	3
7	Investigation of in situ high temperature sensor based on the direct absorption spectroscopy signal of ammonia gas for coal-fired power plant. Optical and Quantum Electronics, 2019, 51, 1.	3.3	4
8	A portable sensor for in-situ measurement of ammonia based on near-infrared laser absorption spectroscopy. Optics and Lasers in Engineering, 2019, 115, 243-248.	3.8	97
9	Development of an early warning fire detection system based on a laser spectroscopic carbon monoxide sensor using a 32-bit system-on-chip. Infrared Physics and Technology, 2019, 96, 44-51.	2.9	30
10	Re-investigation of the (3, 0) band in the $b^4\tilde{\Sigma}^- - a^4\tilde{\Sigma}^+$ system for nitric oxide by laser absorption spectroscopy. Journal of Molecular Spectroscopy, 2018, 346, 1-3.	1.2	1
11	A portable low-power integrated current and temperature laser controller for high-sensitivity gas sensor applications. Review of Scientific Instruments, 2018, 89, 103103.	1.3	9
12	Simultaneous Measurements of CO and CO ₂ Employing Wavelength Modulation Spectroscopy Using a Signal Averaging Technique at 1.578 μ m. Applied Spectroscopy, 2018, 72, 1380-1387.	2.2	12
13	Fire Detection Algorithm Combined with Image Processing and Flame Emission Spectroscopy. Fire Technology, 2018, 54, 1249-1263.	3.0	18
14	Etalon fringe removal of tunable diode laser multi-pass spectroscopy by wavelet transforms. Optical and Quantum Electronics, 2018, 50, 1.	3.3	26
15	Atomic molecules with the simplest $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \hat{\Sigma} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle 1 \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{a} \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \hat{\Sigma} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle 1 \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle$		
16	High-speed multi-pass tunable diode laser absorption spectrometer based on frequency-modulation spectroscopy. Optics Express, 2018, 26, 29330.	3.4	47
17	Pressure-Dependent Detection of Carbon Monoxide Employing Wavelength Modulation Spectroscopy Using a Herriott-Type Cell. Applied Spectroscopy, 2017, 71, 809-816.	2.2	17
18	Defect classification by pulsed eddy current technique in con-casting slabs based on spectrum analysis and wavelet decomposition. Sensors and Actuators A: Physical, 2013, 203, 272-281.	4.1	20