Kai Sun

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11565500/publications.pdf

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15	702	759233 12	1058476 14
papers	citations	h-index	g-index

15	15	15	453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cavity-enhanced absorption spectroscopy for shocktubes: Design and optimization. Proceedings of the Combustion Institute, 2019, 37, 1345-1353.	3.9	14
2	Modeling the optical field in off-axis integrated-cavity-output spectroscopy using the decentered Gaussian beam model. Applied Optics, 2018, 57, 2947.	1.8	9
3	Cavity-enhanced absorption spectroscopy with a ps-pulsed UV laser for sensitive, high-speed measurements in a shock tube. Optics Express, 2016, 24, 308.	3.4	11
4	Shock-tube measurements of excited oxygen atoms using cavity-enhanced absorption spectroscopy. Applied Optics, 2015, 54, 8766.	2.1	32
5	Shock-Tube Measurement of Acetone Dissociation Using Cavity-Enhanced Absorption Spectroscopy of CO. Journal of Physical Chemistry A, 2015, 119, 7257-7262.	2.5	20
6	High-sensitivity interference-free diagnostic for measurement of methane in shock tubes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 156, 80-87.	2.3	49
7	Scanned-wavelength-modulation-spectroscopy sensor for CO, CO2, CH4 and H2O in a high-pressure engineering-scale transport-reactor coal gasifier. Fuel, 2015, 150, 102-111.	6.4	101
8	Fitting of calibration-free scanned-wavelength-modulation spectroscopy spectra for determination of gas properties and absorption lineshapes. Applied Optics, 2014, 53, 356.	1.8	189
9	Sensitive and rapid laser diagnostic for shock tube kinetics studies using cavity-enhanced absorption spectroscopy. Optics Express, 2014, 22, 9291.	3.4	40
10	Time-resolved in situ detection of CO in a shock tube using cavity-enhanced absorption spectroscopy with a quantum-cascade laser near 46Âµm. Optics Express, 2014, 22, 24559.	3.4	32
11	Multi-species laser absorption sensors for in situ monitoring of syngas composition. Applied Physics B: Lasers and Optics, 2014, 115, 9-24.	2.2	50
12	TDLAS-based sensors for in situ measurement of syngas composition in a pressurized, oxygen-blown, entrained flow coal gasifier. Applied Physics B: Lasers and Optics, 2014, 116, 33-42.	2.2	59
13	Application of wavelength-scanned wavelength-modulation spectroscopy H2O absorption measurements in an engineering-scale high-pressure coal gasifier. Applied Physics B: Lasers and Optics, 2014, 117, 411-421.	2.2	19
14	Laser-absorption sensing of gas composition of products from coal gasification. Proceedings of SPIE, 2014, , .	0.8	0
15	TDL absorption sensors for gas temperature and concentrations in a high-pressure entrained-flow coal gasifier. Proceedings of the Combustion Institute, 2013, 34, 3593-3601.	3.9	77