

Kai Sun

List of Publications by Year in descending order

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15
papers

702
citations

759233

12
h-index

1058476

14
g-index

15
all docs

15
docs citations

15
times ranked

453
citing authors

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