

Wubin Weng

List of Publications by Year in descending order

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36
papers

669
citations

471509

17
h-index

580821

25
g-index

36
all docs

36
docs citations

36
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Development in Numerical Simulations and Experimental Studies of Biomass Thermochemical Conversion. <i>Energy & Fuels</i> , 2021, 35, 6940-6963.	5.1	45
2	Effects of CO content on laminar burning velocity of typical syngas by heat flux method and kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9534-9544.	7.1	44
3	Study of ozone-enhanced combustion in H ₂ /CO/N ₂ /air premixed flames by laminar burning velocity measurements and kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1177-1188.	7.1	36
4	Quantitative Measurement of Atomic Potassium in Plumes over Burning Solid Fuels Using Infrared-Diode Laser Spectroscopy. <i>Energy & Fuels</i> , 2017, 31, 2831-2837.	5.1	34
5	A novel multi-jet burner for hot flue gases of wide range of temperatures and compositions for optical diagnostics of solid fuels gasification/combustion. <i>Review of Scientific Instruments</i> , 2017, 88, 045104.	1.3	34
6	Diode laser-based thermometry using two-line atomic fluorescence of indium and gallium. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 278.	2.2	33
7	Single particle ignition and combustion of pulverized pine wood, wheat straw, rice husk and grape pomace. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2663-2671.	3.9	33
8	Optical investigation of gas-phase KCl/KOH sulfation in post flame conditions. <i>Fuel</i> , 2018, 224, 461-468.	6.4	31
9	Numerical simulation of ignition mode and ignition delay time of pulverized biomass particles. <i>Combustion and Flame</i> , 2019, 206, 400-410.	5.2	31
10	Temporally and spectrally resolved images of single burning pulverized wheat straw particles. <i>Fuel</i> , 2018, 224, 434-441.	6.4	29
11	Ultraviolet Absorption Cross Sections of KOH and KCl for Nonintrusive Species-Specific Quantitative Detection in Hot Flue Gases. <i>Analytical Chemistry</i> , 2019, 91, 4719-4726.	6.5	25
12	Quantitative SO ₂ Detection in Combustion Environments Using Broad Band Ultraviolet Absorption and Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2019, 91, 10849-10855.	6.5	24
13	Investigation of formaldehyde enhancement by ozone addition in CH ₄ /air premixed flames. <i>Combustion and Flame</i> , 2015, 162, 1284-1293.	5.2	22
14	Optical measurements of KOH, KCl and K for quantitative K-Cl chemistry in thermochemical conversion processes. <i>Fuel</i> , 2020, 271, 117643.	6.4	22
15	Quantitative imaging of potassium release from single burning pulverized biomass char particles. <i>Fuel</i> , 2020, 264, 116866.	6.4	20
16	Experimental investigations of potassium chemistry in premixed flames. <i>Fuel</i> , 2017, 203, 802-810.	6.4	19
17	Shedding light on the governing mechanisms for insufficient CO and H ₂ burnout in the presence of potassium, chlorine and sulfur. <i>Fuel</i> , 2020, 273, 117762.	6.4	19
18	Spectrally Resolved Ultraviolet (UV) Absorption Cross-Sections of Alkali Hydroxides and Chlorides Measured in Hot Flue Gases. <i>Applied Spectroscopy</i> , 2018, 72, 1388-1395.	2.2	18

#	ARTICLE	IF	CITATIONS
19	Development of novel ultrasonic temperature measurement technology for combustion gas as a potential indicator of combustion instability diagnostics. <i>Applied Thermal Engineering</i> , 2019, 159, 113905.	6.0	17
20	Temporal temperature measurement on burning biomass pellets using phosphor thermometry and two-line atomic fluorescence. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3929-3938.	3.9	17
21	Spatially and temporally resolved IR-DFWM measurement of HCN released from gasification of biomass pellets. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1337-1344.	3.9	13
22	Ultraviolet Absorption Cross-Sections of Ammonia at Elevated Temperatures for Nonintrusive Quantitative Detection in Combustion Environments. <i>Applied Spectroscopy</i> , 2021, 75, 1168-1177.	2.2	13
23	Experimental Investigation on Effects of Central Air Jet on the Bluff-body Stabilized Premixed Methane-air Flame. <i>Energy Procedia</i> , 2017, 107, 23-32.	1.8	12
24	Spatially Resolved Temperature Measurements Above a Burning Wood Pellet Using Diode Laser-Based Two-Line Atomic Fluorescence. <i>Applied Spectroscopy</i> , 2018, 72, 964-970.	2.2	12
25	Quantitative K-Cl-S chemistry in thermochemical conversion processes using in situ optical diagnostics. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5219-5227.	3.9	10
26	Simultaneous Quantitative Detection of HCN and C ₂ H ₂ in Combustion Environment Using TDLAS. <i>Processes</i> , 2021, 9, 2033.	2.8	10
27	Gas Temperature Measurement Using Differential Optical Absorption Spectroscopy (DOAS). <i>Applied Spectroscopy</i> , 2018, 72, 1014-1020.	2.2	9
28	Effects of the Equivalence Ratio and Reynolds Number on Turbulence and Flame Front Interactions by Direct Numerical Simulation. <i>Energy & Fuels</i> , 2016, 30, 6727-6737.	5.1	7
29	Particle temperature and potassium release during combustion of single pulverized biomass char particles. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3949-3958.	3.9	7
30	Quantitative Imaging of Ozone Vapor Using Photofragmentation Laser-Induced Fluorescence (LIF). <i>Applied Spectroscopy</i> , 2017, 71, 1578-1585.	2.2	6
31	Quantitative Hydrogen Chloride Detection in Combustion Environments Using Tunable Diode Laser Absorption Spectroscopy with Comprehensive Investigation of Hot Water Interference. <i>Applied Spectroscopy</i> , 2022, 76, 207-215.	2.2	6
32	Dual-Laser-Induced Breakdown Thermometry via Sound Speed Measurement: A New Procedure for Improved Spatiotemporal Resolution. <i>Sensors</i> , 2020, 20, 2803.	3.8	4
33	Investigation of Hydrogen Content and Dilution Effect on Syngas/Air Premixed Turbulent Flame Using OH Planar Laser-Induced Fluorescence. <i>Processes</i> , 2021, 9, 1894.	2.8	4
34	Investigation of Dilution Effect on CH ₄ /Air Premixed Turbulent Flame Using OH and CH ₂ O Planar Laser-Induced Fluorescence. <i>Energies</i> , 2020, 13, 325.	3.1	1
35	Planar laser-induced photofragmentation fluorescence for quantitative ammonia imaging in combustion environments. <i>Combustion and Flame</i> , 2021, 235, 111687.	5.2	1
36	Quantitative imaging of KOH vapor in combustion environments using 266Ånm laser-induced photofragmentation fluorescence. <i>Combustion and Flame</i> , 2021, 235, 111713.	5.2	1