Clayton Mulvihill

List of Publications by Year
in descending order

22 papers	301 citations	840585 11 h-index	839398 18 g-index
23 all docs	23 docs citations	23 times ranked	163 citing authors

#	Article	IF	Citations
1	Nitromethane pyrolysis in shock tubes and a micro flow reactor with a controlled temperature profile. Proceedings of the Combustion Institute, 2021, 38, 1007-1015.	2.4	7
2	Isopropanol dehydration reaction rate kinetics measurement using H₂O time histories. International Journal of Chemical Kinetics, 2021, 53, 536-547.	1.0	4
3	OH* chemiluminescence in the H2NO2 and H2N2O systems. Combustion and Flame, 2020, 213, 291-301.	2.8	6
4	A Shock-Tube Study of the Rate Constant of PH3 + M â‡„ PH2 + H + M (M = Ar) Using PH3 Laser Absorption. Journal of Physical Chemistry A, 2020, 124, 7380-7387.	1.1	1
5	Shock-Tube Laser Absorption Measurements of CO and H2O during Iso-Octane Combustion. Energy & Fuels, 2020, 34, 7533-7544.	2.5	11
6	Concerning shock-tube ignition delay times: An experimental investigation of impurities in the H2/O2 system and beyond. Proceedings of the Combustion Institute, 2019, 37, 259-266.	2.4	19
7	Ethanol pyrolysis kinetics using H2O time history measurements behind reflected shock waves. Proceedings of the Combustion Institute, 2019, 37, 239-247.	2.4	19
8	Ignition delay times, laminar flame speeds, and species time-histories in the H2S/CH4 system at atmospheric pressure. Proceedings of the Combustion Institute, 2019, 37, 735-742.	2.4	22
9	Experimental study of ethanol oxidation behind reflected shock waves: Ignition delay time and H2O laser-absorption measurements. Combustion and Flame, 2019, 208, 313-326.	2.8	38
10	H₂O time histories in the H₂â€NO₂ system for validation of NOx hydrocarbon kinetics mechanisms. International Journal of Chemical Kinetics, 2019, 51, 669-678.	1.0	11
11	A laser diagnostic at 427Ânm for quantitative measurements of CH in a shock tube. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	3
12	Ignition delay time and H2O measurements during methanol oxidation behind reflected shock waves. Combustion and Flame, 2019, 203, 143-156.	2.8	23
13	NOx-Hydrocarbon Kinetics Model Validation Using Measurements of H2O in Shock-Heated CH4/C2H6 Mixtures With NO2 as Oxidant. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	4
14	Assessment of modern detailed kinetics mechanisms to predict CO formation from methane combustion using shock-tube laser-absorption measurements. Fuel, 2019, 236, 1164-1180.	3.4	34
15	CO and H2O Time Histories in a Shock-Heated H2S/CH4 Blend Near Atmospheric Pressure. , 2019, , 185-191.		0
16	NOx-Hydrocarbon Kinetics Model Validation Using Measurements of H2O in Shock-Heated CH4/C2H6 Mixtures With NO2 As Oxidant. , 2018, , .		0
17	The unimportance of the reaction H2â€¯+â€¯N2O â‡† H2Oâ€¯+â€¯N2: A shock-tube study using H2O time histories and ignition delay times. Combustion and Flame, 2018, 196, 478-486.	2.8	18
18	High-temperature He- and O2-broadening of the R(12) line in the 1â†0 band of carbon monoxide. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 432-439.	1.1	15

#	Article	IF	Citations
19	Shock-tube Time-history Measurements of CO and H2O Using IR Laser Absorption. , 2017, , .		0
20	High-temperature argon broadening of CO2 near 2190Âcmâˆ'1 in a shock tube. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	15
21	CO and H2O Time-Histories in Shock-Heated Blends of Methane and Ethane for Assessment of a Chemical Kinetics Model. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	4
22	Shock-tube water time-histories and ignition delay time measurements for H2S near atmospheric pressure. Proceedings of the Combustion Institute, 2017, 36, 4019-4027.	2.4	46