

Clayton Mulvihill

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4433655/publications.pdf>

Version: 2024-02-01

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	Shock-tube water time-histories and ignition delay time measurements for H ₂ S near atmospheric pressure. Proceedings of the Combustion Institute, 2017, 36, 4019-4027.	2.4	46
2	Experimental study of ethanol oxidation behind reflected shock waves: Ignition delay time and H ₂ O laser-absorption measurements. Combustion and Flame, 2019, 208, 313-326.	2.8	38
3	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
4	Ignition delay time and H ₂ O measurements during methanol oxidation behind reflected shock waves. Combustion and Flame, 2019, 203, 143-156.	2.8	23
5	Ignition delay times, laminar flame speeds, and species time-histories in the H ₂ S/CH ₄ system at atmospheric pressure. Proceedings of the Combustion Institute, 2019, 37, 735-742.	2.4	22
6	Concerning shock-tube ignition delay times: An experimental investigation of impurities in the H ₂ /O ₂ system and beyond. Proceedings of the Combustion Institute, 2019, 37, 259-266.	2.4	19
7	Ethanol pyrolysis kinetics using H ₂ O time history measurements behind reflected shock waves. Proceedings of the Combustion Institute, 2019, 37, 239-247.	2.4	19
8	The unimportance of the reaction H ₂ +N ₂ ⇌H ₂ O+N ₂ : A shock-tube study using H ₂ O time histories and ignition delay times. Combustion and Flame, 2018, 196, 478-486.	2.8	18
9	High-temperature argon broadening of CO ₂ near 2190 cm ⁻¹ in a shock tube. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	15
10	High-temperature He- and O ₂ -broadening of the R(12) line in the 1-0 band of carbon monoxide. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 432-439.	1.1	15
11	H ₂ O time histories in the H ₂ +NO ₂ system for validation of NO _x hydrocarbon kinetics mechanisms. International Journal of Chemical Kinetics, 2019, 51, 669-678.	1.0	11
12	Shock-Tube Laser Absorption Measurements of CO and H ₂ O during Iso-Octane Combustion. Energy & Fuels, 2020, 34, 7533-7544.	2.5	11
13	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
14	OH* chemiluminescence in the H ₂ NO ₂ and H ₂ N ₂ O systems. Combustion and Flame, 2020, 213, 291-301.	2.8	6
15	CO and H ₂ O 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
16	NO _x -Hydrocarbon Kinetics Model Validation Using Measurements of H ₂ O in Shock-Heated CH ₄ /C ₂ H ₆ Mixtures With NO ₂ as Oxidant. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	4
17	Isopropanol dehydration reaction rate kinetics measurement using H ₂ O time histories. International Journal of Chemical Kinetics, 2021, 53, 536-547.	1.0	4
18	A laser diagnostic at 427 nm for quantitative measurements of CH in a shock tube. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	3

#	ARTICLE	IF	CITATIONS
19	A Shock-Tube Study of the Rate Constant of $\text{PH}_3 + \text{M} \rightarrow \text{PH}_2 + \text{H} + \text{M}$ ($\text{M} = \text{Ar}$) Using PH_3 Laser Absorption. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7380-7387.	1.1	1
20	Shock-tube Time-history Measurements of CO and H ₂ O Using IR Laser Absorption. , 2017, , .		0
21	NO _x -Hydrocarbon Kinetics Model Validation Using Measurements of H ₂ O in Shock-Heated CH ₄ /C ₂ H ₆ Mixtures With NO ₂ As Oxidant. , 2018, , .		0
22	CO and H ₂ O Time Histories in a Shock-Heated H ₂ S/CH ₄ Blend Near Atmospheric Pressure. , 2019, , 185-191.		0