IstvÃ¡n Gy ZsÃ©ly

List of Publications by Year
in descending order

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Version: 2024-02-01

19	808	566801	794141
papers	citations	15	19
		h-index	g-index

19	19	19	554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design of combustion experiments using differential entropy. Combustion Theory and Modelling, 2022, 26, 67-90.	1.0	4
2	The importance of chemical mechanisms in sonochemical modelling. Ultrasonics Sonochemistry, 2022, 83, 105925.	3.8	18
3	Main sources of uncertainty in recent methanol/NOx combustion models. International Journal of Chemical Kinetics, 2021, 53, 884-900.	1.0	15
4	Comparison of Methane Combustion Mechanisms Using Shock Tube and Rapid Compression Machine Ignition Delay Time Measurements. Energy & Fuels, 2021, 35, 12329-12351.	2.5	23
5	Determination of rate parameters of key N/H/O elementary reactions based on H2/O2/NOx combustion experiments. Fuel, 2020, 264, 116720.	3.4	34
6	Formation of NO in High-Temperature N₂/O₂/H₂O Mixtures: Re-evaluation of Rate Coefficients. Energy & Fuels, 2018, 32, 10114-10120.	2.5	16
7	Development of a Joint Hydrogen and Syngas Combustion Mechanism Based on an Optimization Approach. International Journal of Chemical Kinetics, 2016, 48, 407-422.	1.0	122
8	Comparison of the performance of several recent syngas combustion mechanisms. Combustion and Flame, 2015, 162, 1793-1812.	2.8	111
9	Uncertainty of the rate parameters of several important elementary reactions of the H2 and syngas combustion systems. Combustion and Flame, 2015, 162, 2059-2076.	2.8	55
10	Structural analysis of combustion mechanisms. Journal of Mathematical Chemistry, 2015, 53, 86-110.	0.7	2
11	Kinetic Analysis of Ethyl Iodide Pyrolysis Based on Shock Tube Measurements. International Journal of Chemical Kinetics, 2014, 46, 295-304.	1.0	39
12	Comparison of the performance of several recent hydrogen combustion mechanisms. Combustion and Flame, 2014, 161, 2219-2234.	2.8	144
13	Numerical investigation of the uncertainty of Arrhenius parameters. Journal of Mathematical Chemistry, 2011, 49, 1798-1809.	0.7	18
14	Kinetic analysis of mechanisms of complex pyrolytic reactions. Journal of Analytical and Applied Pyrolysis, 2007, 79, 252-258.	2.6	24
15	Time scale and dimension analysis of a budding yeast cell cycle model. BMC Bioinformatics, 2006, 7, 494.	1.2	34
16	Local and Global Uncertainty Analyses of a Methane Flame Model. Journal of Physical Chemistry A, 2005, 109, 9795-9807.	1.1	90
17	Investigation of the correlation of sensitivity vectors of hydrogen combustion models. International Journal of Chemical Kinetics, 2004, 36, 238-252.	1.0	10
18	Similarity of Sensitivity Functions of Reaction Kinetic Models. Journal of Physical Chemistry A, 2003, 107, 2216-2238.	1.1	26

#	Article	IF	Citations
19	The influence of thermal coupling and diffusion on the importance of reactions: The case study of hydrogenâ€“air combustion. Physical Chemistry Chemical Physics, 2003, 5, 3622-3631.	1.3	23