

Kai Moshhammer

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,588
citations

186265

28
h-index

189892

50
g-index

51
all docs

51
docs citations

51
times ranked

1698
citing authors

#	ARTICLE	IF	CITATIONS
1	A detailed uncertainty analysis of EI-MBMS data from combustion experiments. <i>Combustion and Flame</i> , 2022, 243, 112012.	5.2	6
2	A Comprehensive Analysis of the Risks Associated with the Determination of Biofuels'™ Calorific Value by Bomb Calorimetry. <i>Energies</i> , 2022, 15, 2771.	3.1	9
3	Low- and high-temperature study of n-heptane combustion chemistry. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 405-413.	3.9	9
4	The impact of the third O ₂ addition reaction network on ignition delay times of neo-pentane. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 299-307.	3.9	8
5	Entanglement of n-heptane and iso-butanol chemistries in flames fueled by their mixtures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2387-2395.	3.9	3
6	Parametrical investigation for the optimization of spherical jet-stirred reactors design using large eddy simulations. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	0
7	Review of the Influence of Oxygenated Additives on the Combustion Chemistry of Hydrocarbons. <i>Energy & Fuels</i> , 2021, 35, 13550-13568.	5.1	33
8	Molecular-Weight Growth in Ozone-Initiated Low-Temperature Oxidation of Methyl Crotonate. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7881-7892.	2.5	11
9	Knowledge generation through data research: New validation targets for the refinement of kinetic mechanisms. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 743-750.	3.9	22
10	A shock tube and modeling study on the autoignition properties of ammonia at intermediate temperatures. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 205-211.	3.9	127
11	Insights into the oxidation kinetics of a cetane improver " 1,2-dimethoxyethane (1,2-DME) with experimental and modeling methods. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 555-564.	3.9	12
12	Numerical Study of the Mixing Inside a Jet Stirred Reactor using Large Eddy Simulations. <i>Flow, Turbulence and Combustion</i> , 2019, 102, 331-343.	2.6	3
13	Chemical insights into the larger sooting tendency of 2-methyl-2-butene compared to n-pentane. <i>Combustion and Flame</i> , 2019, 208, 182-197.	5.2	13
14	Isomer-Selective Detection of Keto-Hydroperoxides in the Low-Temperature Oxidation of Tetrahydrofuran. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8274-8284.	2.5	24
15	The C ₅ chemistry preceding the formation of polycyclic aromatic hydrocarbons in a premixed 1-pentene flame. <i>Combustion and Flame</i> , 2019, 206, 411-423.	5.2	23
16	Auto-ignition kinetics of ammonia and ammonia/hydrogen mixtures at intermediate temperatures and high pressures. <i>Combustion and Flame</i> , 2019, 206, 189-200.	5.2	177
17	Influences of the molecular fuel structure on combustion reactions towards soot precursors in selected alkane and alkene flames. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10780-10795.	2.8	57
18	Exploring the negative temperature coefficient behavior of acetaldehyde based on detailed intermediate measurements in a jet-stirred reactor. <i>Combustion and Flame</i> , 2018, 192, 120-129.	5.2	31

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19	n-Heptane cool flame chemistry: Unraveling intermediate species measured in a stirred reactor and motored engine. <i>Combustion and Flame</i> , 2018, 187, 199-216.	5.2	68
20	Analysis of the turbulent flow structure in a jet stirred reactor using proper orthogonal decomposition. <i>Journal of Physics: Conference Series</i> , 2018, 1065, 202002.	0.4	1
21	Experimental and chemical kinetic modeling investigation of methyl butanoate as a component of biodiesel surrogate. <i>Combustion and Flame</i> , 2018, 197, 49-64.	5.2	18
22	A further experimental and modeling study of acetaldehyde combustion kinetics. <i>Combustion and Flame</i> , 2018, 196, 337-350.	5.2	14
23	Autoignition studies of Liquefied Natural Gas (LNG) in a shock tube and a rapid compression machine. <i>Fuel</i> , 2018, 232, 423-430.	6.4	34
24	Investigation of the chemical structures of laminar premixed flames fueled by acetaldehyde. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1287-1294.	3.9	14
25	2D-imaging of sampling-probe perturbations in laminar premixed flames using Kr X-ray fluorescence. <i>Combustion and Flame</i> , 2017, 181, 214-224.	5.2	51
26	Investigating repetitive reaction pathways for the formation of polycyclic aromatic hydrocarbons in combustion processes. <i>Combustion and Flame</i> , 2017, 180, 250-261.	5.2	88
27	Tailoring Charge Reactivity Using In-Cylinder Generated Reformate for Gasoline Compression Ignition Strategies. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	1.1	7
28	Unraveling the structure and chemical mechanisms of highly oxygenated intermediates in oxidation of organic compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13102-13107.	7.1	117
29	Aromatic ring formation in opposed-flow diffusive 1,3-butadiene flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 947-955.	3.9	41
30	Consumption and hydrocarbon growth processes in a 2-methyl-2-butene flame. <i>Combustion and Flame</i> , 2017, 175, 34-46.	5.2	42
31	New insights into the low-temperature oxidation of 2-methylhexane. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 373-382.	3.9	36
32	The influence of i-butanol addition to the chemistry of premixed 1,3-butadiene flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1311-1319.	3.9	16
33	The influence of dimethoxy methane (DMM)/dimethyl carbonate (DMC) addition on a premixed ethane/oxygen/argon flame. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 449-457.	3.9	29
34	Detailed speciation and reactivity characterization of fuel-specific in-cylinder reforming products and the associated impact on engine performance. <i>Fuel</i> , 2016, 185, 348-361.	6.4	32
35	Quantification of the Keto-Hydroperoxide (HOOCH ₂ OCHO) and Other Elusive Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7890-7901.	2.5	104
36	An experimental and kinetic modeling study on dimethyl carbonate (DMC) pyrolysis and combustion. <i>Combustion and Flame</i> , 2016, 164, 224-238.	5.2	75

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37	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. <i>Combustion and Flame</i> , 2016, 164, 386-396.	5.2	94
38	Electron ionization, photoionization and photoelectron/photoion coincidence spectroscopy in mass-spectrometric investigations of a low-pressure ethylene/oxygen flame. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 779-786.	3.9	58
39	Experimental and kinetic modeling study of the low- and intermediate-temperature oxidation of dimethyl ether. <i>Combustion and Flame</i> , 2015, 162, 1113-1125.	5.2	120
40	Detection and Identification of the Keto-Hydroperoxide (HOOCH ₂ OCHO) and Other Intermediates during Low-Temperature Oxidation of Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7361-7374.	2.5	143
41	Comprehensive kinetic modeling and experimental study of a fuel-rich, premixed n-heptane flame. <i>Combustion and Flame</i> , 2015, 162, 2045-2058.	5.2	107
42	1-, 2- and 3-Pentanol combustion in laminar hydrogen flames – A comparative experimental and modeling study. <i>Combustion and Flame</i> , 2015, 162, 3197-3209.	5.2	32
43	A numerical study of highly-diluted, burner-stabilised dimethyl ether flames. <i>Combustion Theory and Modelling</i> , 2015, 19, 238-259.	1.9	6
44	Formation of Oxygenated and Hydrocarbon Intermediates in Premixed Combustion of 2-Methylfuran. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 507-528.	2.8	19
45	Photoelectron-photoion coincidence spectroscopy for multiplexed detection of intermediate species in a flame. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22791-22804.	2.8	74
46	An experimental and kinetic modeling study of 2-methyltetrahydrofuran flames. <i>Combustion and Flame</i> , 2013, 160, 2729-2743.	5.2	60
47	Experimental investigation of partially premixed, highly-diluted dimethyl ether flames at low temperatures. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 763-770.	3.9	12
48	Detailed mass spectrometric and modeling study of isomeric butene flames. <i>Combustion and Flame</i> , 2013, 160, 487-503.	5.2	130
49	Experimental and numerical study of chemiluminescent species in low-pressure flames. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 571-584.	2.2	84
50	Fuel-nitrogen conversion in the combustion of small amines using dimethylamine and ethylamine as biomass-related model fuels. <i>Combustion and Flame</i> , 2012, 159, 2254-2279.	5.2	74
51	Selective suspension in aqueous sodium dodecyl sulfate according to electronic structure type allows simple separation of metallic from semiconducting single-walled carbon nanotubes. <i>Nano Research</i> , 2009, 2, 599-606.	10.4	220