

Xiaoyuan Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,294
citations

430754

18
h-index

360920

35
g-index

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all docs

37
docs citations

37
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and kinetic modeling investigation on the laminar flame propagation of ammonia under oxygen enrichment and elevated pressure conditions. <i>Combustion and Flame</i> , 2019, 210, 236-246.	2.8	275
2	Combustion chemistry of ammonia/hydrogen mixtures: Jet-stirred reactor measurements and comprehensive kinetic modeling. <i>Combustion and Flame</i> , 2021, 234, 111653.	2.8	146
3	Experimental and kinetic modeling study of the low- and intermediate-temperature oxidation of dimethyl ether. <i>Combustion and Flame</i> , 2015, 162, 1113-1125.	2.8	120
4	Exploration on laminar flame propagation of ammonia and syngas mixtures up to 10 ⁵ atm. <i>Combustion and Flame</i> , 2020, 220, 368-377.	2.8	79
5	Kinetic modeling study of benzene and PAH formation in laminar methane flames. <i>Combustion and Flame</i> , 2015, 162, 1692-1711.	2.8	67
6	Experimental and modeling efforts towards a better understanding of the high-temperature combustion kinetics of C3C5 ethyl esters. <i>Combustion and Flame</i> , 2017, 185, 173-187.	2.8	47
7	Investigation on the oxidation chemistry of methanol in laminar premixed flames. <i>Combustion and Flame</i> , 2017, 180, 20-31.	2.8	45
8	Acetaldehyde oxidation at low and intermediate temperatures: An experimental and kinetic modeling investigation. <i>Combustion and Flame</i> , 2018, 191, 431-441.	2.8	43
9	Methylcyclohexane pyrolysis and oxidation in a jet-stirred reactor. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 409-417.	2.4	40
10	Influence of the biofuel isomers diethyl ether and n-butanol on flame structure and pollutant formation in premixed n-butane flames. <i>Combustion and Flame</i> , 2017, 175, 47-59.	2.8	36
11	Ammonia and ammonia/hydrogen blends oxidation in a jet-stirred reactor: Experimental and numerical study. <i>Fuel</i> , 2022, 310, 122202.	3.4	34
12	Experimental and kinetic modeling investigation on ethylcyclohexane low-temperature oxidation in a jet-stirred reactor. <i>Combustion and Flame</i> , 2020, 214, 211-223.	2.8	31
13	Characterizing ammonia and nitric oxide interaction with outwardly propagating spherical flame method. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2477-2485.	2.4	27
14	A lumped kinetic model for high-temperature pyrolysis and combustion of 50 surrogate fuel components and their mixtures. <i>Fuel</i> , 2021, 286, 119361.	3.4	25
15	New insights into propanal oxidation at low temperatures: An experimental and kinetic modeling study. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 565-573.	2.4	21
16	A functional-group-based approach to modeling real-fuel combustion chemistry – I: Prediction of stoichiometric parameters for lumped pyrolysis reactions. <i>Combustion and Flame</i> , 2021, 227, 497-509.	2.8	21
17	Experimental and kinetic modeling investigation on laminar flame propagation of CH ₄ /CO mixtures at various pressures: Insight into the transition from CH ₄ -related chemistry to CO-related chemistry. <i>Combustion and Flame</i> , 2019, 209, 481-492.	2.8	20
18	A functional-group-based approach to modeling real-fuel combustion chemistry – II: Kinetic model construction and validation. <i>Combustion and Flame</i> , 2021, 227, 510-525.	2.8	19

#	ARTICLE	IF	CITATIONS
19	Low-temperature chemistry triggered by probe cooling in a low-pressure premixed flame. <i>Combustion and Flame</i> , 2019, 204, 260-267.	2.8	18
20	Experimental and kinetic modeling investigation on sec-butylbenzene combustion: Flow reactor pyrolysis and laminar flame propagation at various pressures. <i>Combustion and Flame</i> , 2020, 211, 18-31.	2.8	16
21	Experimental and kinetic modeling study on flow reactor pyrolysis of iso-pentanol: Understanding of iso-pentanol pyrolysis chemistry and fuel isomeric effects of pentanol. <i>Fuel</i> , 2019, 257, 116039.	3.4	15
22	Probing the gas-phase oxidation of ammonia: Addressing uncertainties with theoretical calculations. <i>Combustion and Flame</i> , 2022, 235, 111708.	2.8	15
23	Pyrolysis of 2-methyl-1-butanol at low and atmospheric pressures: Mass spectrometry and modeling studies. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 409-417.	2.4	14
24	Experimental and kinetic modeling study of laminar coflow diffusion methane flames doped with iso-butanol. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1259-1267.	2.4	13
25	Pyrolysis of butane-2,3-dione from low to high pressures: Implications for methyl-related growth chemistry. <i>Combustion and Flame</i> , 2019, 200, 69-81.	2.8	13
26	Revisit laminar premixed ethylene flames at elevated pressures: A mass spectrometric and laminar flame propagation study. <i>Combustion and Flame</i> , 2021, 230, 111422.	2.8	11
27	Hydrogen Evolution from Hydrocarbon Pyrolysis in a Simulated Liquid Metal Bubble Reactor. <i>Energy & Fuels</i> , 2021, 35, 14597-14609.	2.5	10
28	Characterizing the fuel-specific combustion chemistry of acetic acid and propanoic acid: Laminar flame propagation and kinetic modeling studies. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 449-457.	2.4	9
29	Exploring the low-temperature oxidation chemistry of 1-butene and i-butene triggered by dimethyl ether. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 289-298.	2.4	9
30	A comprehensive study on low-temperature oxidation chemistry of cyclohexane. II. Experimental and kinetic modeling investigation. <i>Combustion and Flame</i> , 2022, 235, 111550.	2.8	9
31	Probing the fuel-specific intermediates in the low-temperature oxidation of 1-heptene and modeling interpretation. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 385-394.	2.4	8
32	Exploring combustion chemistry of ethyl valerate at various pressures: Pyrolysis, laminar burning velocity and kinetic modeling. <i>Combustion and Flame</i> , 2021, 227, 27-38.	2.8	8
33	High-Temperature Pyrolysis and Combustion of C ₅ –C ₁₉ Fatty Acid Methyl Esters (FAMES): A Lumped Kinetic Modeling Study. <i>Energy & Fuels</i> , 2021, 35, 19553-19567.	2.5	8
34	Low-temperature oxidation chemistry of 2,4,4-trimethyl-1-pentene (diisobutylene) triggered by dimethyl ether (DME): A jet-stirred reactor oxidation and kinetic modeling investigation. <i>Combustion and Flame</i> , 2021, 234, 111629.	2.8	7
35	Exploring fuel isomeric effects on laminar flame propagation of butylbenzenes at various pressures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2419-2429.	2.4	5
36	Flow reactor pyrolysis of iso-butylbenzene and tert-butylbenzene at various pressures: Insight into fuel isomeric effects on pyrolysis chemistry of butylbenzenes. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1423-1432.	2.4	5

#	ARTICLE	IF	CITATIONS
37	A decoupled modeling approach and experimental measurements for pyrolysis of C6-C10 saturated fatty acid methyl esters (FAMES). <i>Combustion and Flame</i> , 2022, 243, 111955.	2.8	5