

Jiuzhong Yang

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155
papers

3,313
citations

30
h-index

53
g-index

163
ext. papers

4,362
ext. citations

6.1
avg, IF

5.43
L-index

#	Paper	IF	Citations
155	Selective conversion of syngas to light olefins. <i>Science</i> , 2016 , 351, 1065-8	33.3	740
154	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. I. Flow reactor pyrolysis and jet stirred reactor oxidation. <i>Combustion and Flame</i> , 2015 , 162, 3-21	5.3	126
153	An experimental and kinetic modeling study of three butene isomers pyrolysis at low pressure. <i>Combustion and Flame</i> , 2012 , 159, 905-917	5.3	125
152	The vacuum ultraviolet beamline/endstations at NSRL dedicated to combustion research. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 1035-45	2.4	103
151	Hydrothermally Stable Thioether-Bridged Mesoporous Materials with Void Defects in the Pore Walls. <i>Advanced Functional Materials</i> , 2005 , 15, 1297-1302	15.6	99
150	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. II. A comprehensive kinetic modeling study. <i>Combustion and Flame</i> , 2015 , 162, 22-40	5.3	86
149	Experimental and modeling study of the effects of adding oxygenated fuels to premixed n-heptane flames. <i>Combustion and Flame</i> , 2012 , 159, 2324-2335	5.3	79
148	Speciation and the laminar burning velocities of poly(oxyethylene) dimethyl ether 3 (POMDME3) flames: An experimental and modeling study. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1269-1278	5.9	78
147	Sulfur vacancy-rich MoS ₂ as a catalyst for the hydrogenation of CO ₂ to methanol. <i>Nature Catalysis</i> , 2021 , 4, 242-250	36.5	76
146	Thioether-bridged Mesoporous Organosilicas: Mesophase Transformations Induced by the Bridged Organosilane Precursor. <i>Advanced Functional Materials</i> , 2007 , 17, 569-576	15.6	72
145	Investigation on fuel-rich premixed flames of monocyclic aromatic hydrocarbons: Part I. Intermediate identification and mass spectrometric analysis. <i>Combustion and Flame</i> , 2010 , 157, 143-154	5.3	68
144	Online Study on the Pyrolysis of Polypropylene over the HZSM-5 Zeolite with Photoionization Time-of-Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2015 , 29, 1090-1098	4.1	55
143	Bulk Nanocrystalline Fe ₃ Al-Based Material Prepared by Aluminothermic Reaction. <i>Advanced Materials</i> , 2006 , 18, 733-737	24	51
142	Experimental and modeling investigation on premixed ethylbenzene flames at low pressure. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 617-624	5.9	50
141	NbO _x /CeO ₂ -rods catalysts for oxidative dehydrogenation of propane: Nb ₂ O ₅ interaction and reaction mechanism. <i>Journal of Catalysis</i> , 2017 , 348, 189-199	7.3	47
140	Gas-Phase Reaction Network of Li/MgO-Catalyzed Oxidative Coupling of Methane and Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2019 , 9, 2514-2520	13.1	47
139	Experimental and kinetic modeling investigation on laminar premixed benzene flames with various equivalence ratios. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 855-862	5.9	44

138	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8042-8046	16.4	43
137	Experimental and kinetic modeling study of styrene combustion. <i>Combustion and Flame</i> , 2015 , 162, 1868-1883	5.3	40
136	Synergizing metal-support interactions and spatial confinement boosts dynamics of atomic nickel for hydrogenations. <i>Nature Nanotechnology</i> , 2021 , 16, 1141-1149	28.7	40
135	Pyrolysis of n-Butylbenzene at Various Pressures: Influence of Long Side-Chain Structure on Alkylbenzene Pyrolysis. <i>Energy & Fuels</i> , 2017 , 31, 14270-14279	4.1	38
134	Online Study on the Catalytic Pyrolysis of Bituminous Coal over HUSY and HZSM-5 with Photoionization Time-of-Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2016 , 30, 1598-1604	4.1	38
133	Investigation of third-order optical nonlinearity in KBe ₂ BO ₃ F ₂ crystal by Z-scan. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 301-305	1.9	37
132	A chemical kinetic modeling study of indene pyrolysis. <i>Combustion and Flame</i> , 2019 , 206, 1-20	5.3	36
131	Investigation on pyrolysis mechanism of guaiacol as lignin model compound at atmospheric pressure. <i>Fuel</i> , 2018 , 232, 632-638	7.1	36
130	Mechanism study on the pyrolysis of the typical ether linkages in biomass. <i>Fuel</i> , 2019 , 249, 146-153	7.1	34
129	Polycyclic aromatic hydrocarbons in pyrolysis of gasoline surrogates (n-heptane/iso-octane/toluene). <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 993-1001	5.9	33
128	Experimental and kinetic modeling study of n-propanol and i-propanol combustion: Flow reactor pyrolysis and laminar flame propagation. <i>Combustion and Flame</i> , 2019 , 207, 171-185	5.3	32
127	A study of low-pressure premixed ethylene flame with and without ethanol using photoionization mass spectrometry and modeling. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 569-576	5.9	32
126	Acetaldehyde oxidation at low and intermediate temperatures: An experimental and kinetic modeling investigation. <i>Combustion and Flame</i> , 2018 , 191, 431-441	5.3	30
125	Experimental and kinetic modeling studies of furan pyrolysis: Fuel decomposition and aromatic ring formation. <i>Fuel</i> , 2017 , 206, 239-247	7.1	28
124	Experimental and kinetic modeling study of tert-butanol combustion at low pressure. <i>Energy</i> , 2012 , 43, 94-102	7.9	28
123	Structural Parameter of Orientational Order to Predict the Boson Vibrational Anomaly in Glasses. <i>Physical Review Letters</i> , 2019 , 122, 015501	7.4	25
122	Imaging of Polar and Nonpolar Species Using Compact Desorption Electrospray Ionization/Postphotoionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 6616-6623	7.8	24
121	Pyrolysis Study on Solid Fuels: From Conventional Analytical Methods to Synchrotron Vacuum Ultraviolet Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2016 , 30, 1534-1543	4.1	24

120	Experimental and kinetic modeling study of methyl butanoate and methyl butanoate/methanol flames at different equivalence ratios and C/O ratios. <i>Combustion and Flame</i> , 2012 , 159, 44-54	5.3	24
119	Experimental and kinetic modeling investigation on anisole pyrolysis: Implications on phenoxy and cyclopentadienyl chemistry. <i>Combustion and Flame</i> , 2019 , 201, 187-199	5.3	24
118	Methylcyclohexane pyrolysis and oxidation in a jet-stirred reactor. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 409-417	5.9	22
117	A thermal decomposition study of pine wood under ambient pressure using thermogravimetry combined with synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 2217-2224	5.9	21
116	A 200 W diode-side-pumped CW 2 ̢m Tm:YAG laser with water cooling at 8°C. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 83-88	1.9	20
115	A comprehensive experimental and kinetic modeling study of tert-butanol combustion. <i>Combustion and Flame</i> , 2016 , 169, 154-170	5.3	20
114	Online photoionization mass spectrometric evaluation of catalytic co-pyrolysis of cellulose and polyethylene over HZSM-5. <i>Bioresource Technology</i> , 2019 , 275, 130-137	11	20
113	Ultrasonic nebulization extraction/low pressure photoionization mass spectrometry for direct analysis of chemicals in matrices. <i>Analytica Chimica Acta</i> , 2015 , 891, 203-10	6.6	19
112	Experimental and kinetic modeling investigation on methyl decanoate pyrolysis at low and atmospheric pressures. <i>Fuel</i> , 2018 , 232, 333-340	7.1	19
111	Pyrolysis study of Huainan coal with different particle sizes using TG analysis and online Py-PI-TOF MS. <i>Journal of the Energy Institute</i> , 2020 , 93, 405-414	5.7	17
110	Application of three-parameter Weibull mixture model for reliability assessment of NC machine tools: a case study. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 2718-2726	1.3	16
109	Surface coupling of methyl radicals for efficient low-temperature oxidative coupling of methane. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1117-1125	11.3	16
108	Formation and Fate of Formaldehyde in Methanol-to-Hydrocarbon Reaction: In Situ Synchrotron Radiation Photoionization Mass Spectrometry Study. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4873-4878	16.4	15
107	Experimental and kinetic modeling investigation on ethylcyclohexane low-temperature oxidation in a jet-stirred reactor. <i>Combustion and Flame</i> , 2020 , 214, 211-223	5.3	15
106	Photoionization Mass Spectrometric and Kinetic Modeling of Low-pressure Pyrolysis of Benzene. <i>Chinese Journal of Chemical Physics</i> , 2013 , 26, 245-251	0.9	15
105	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	5.3	15
104	Low-temperature chemistry triggered by probe cooling in a low-pressure premixed flame. <i>Combustion and Flame</i> , 2019 , 204, 260-267	5.3	14
103	An experimental study of indene pyrolysis with synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5510-5520	3.6	14

102	A molecular beam mass spectrometric investigation of plasma assisted oxidation and pyrolysis of methane. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5577-5586	5.9	14
101	Pyrolysis study on cattle manure: From conventional analytical method to online study of pyrolysis photoionization time-of-flight mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 151, 104916	6	13
100	A vacuum ultraviolet photoionization time-of-flight mass spectrometer with high sensitivity for study of gas-phase radical reaction in a flow tube. <i>International Journal of Chemical Kinetics</i> , 2019 , 51, 178-188	1.4	13
99	Experimental and Theoretical Investigation of the Pyrolysis of Furfural. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 103-110	2.8	13
98	Rapid soot inception via alkynyl substitution of polycyclic aromatic hydrocarbons. <i>Fuel</i> , 2021 , 295, 120580	5.0	13
97	Extractive Atmospheric Pressure Photoionization (EAPPI) Mass Spectrometry: Rapid Analysis of Chemicals in Complex Matrices. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1597-6035	3.5	12
96	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	5.9	12
95	Experimental and theoretical studies on decomposition of pyrrolidine. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 415-423	5.9	12
94	Sequential imperfect preventive maintenance policy with random maintenance quality under reliability limit. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 1926-1935	1.3	12
93	First aromatic ring formation by the radical-chain reaction of vinylacetylene and propargyl. <i>Combustion and Flame</i> , 2021 , 225, 524-534	5.3	12
92	Ex Situ Catalytic Pyrolysis of Algal Biomass in a Double Microfixed-Bed Reactor: Catalyst Deactivation and Its Coking Behavior. <i>Energy & Fuels</i> , 2020 , 34, 1918-1928	4.1	11
91	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	5.3	11
90	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	5.9	10
89	Determination of absolute photoionization cross-sections of some aromatic hydrocarbons. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8899	2.2	10
88	Catalytic pyrolysis of xylan over alkali metal salts as revealed by synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 135, 94-100	6	10
87	Benzene decomposition by non-thermal plasma: A detailed mechanism study by synchrotron radiation photoionization mass spectrometry and theoretical calculations. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126584	12.8	10
86	Experimental study of trimethyl aluminum decomposition. <i>Journal of Crystal Growth</i> , 2017 , 473, 6-10	1.6	9
85	Investigations on Pyrolysis of Isooctane at Low and Atmospheric Pressures. <i>Energy & Fuels</i> , 2019 , 33, 3518-3528	4.1	9

84	Experimental and kinetic modeling investigation of rich premixed toluene flames doped with n-butanol. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10628-10636	3.6	9
83	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	7.1	8
82	Sliding Wear of Ni _{7.5} Si _{2.9} Cr Alloy under Water Lubrication. <i>Tribology Letters</i> , 2005 , 20, 149-156	2.8	8
81	Revealing the doping effects of C ₂ H ₆ O isomers on a benzene flame: An experimental and modeling study. <i>Combustion and Flame</i> , 2018 , 197, 355-368	5.3	8
80	Direct and rapid analysis of trace levels steroids in water by thermal desorption atmospheric pressure photoionization mass spectrometry. <i>Analytical Methods</i> , 2019 , 11, 1304-1311	3.2	7
79	Influence of Thermal Treatment of HUSY on Catalytic Pyrolysis of Polypropylene: An Online Photoionization Mass Spectrometric Study. <i>Energy & Fuels</i> , 2016 , 30, 5122-5129	4.1	7
78	Fast and comprehensive characterization of chemical ingredients in traditional Chinese herbal medicines by extractive atmospheric pressure photoionization (EAPPI) mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 1491-1498	2.2	7
77	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	5.9	7
76	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. <i>Angewandte Chemie</i> , 2020 , 132, 8119-8123	3.6	6
75	Upgrading of furans from in situ catalytic fast pyrolysis of xylan by reduced graphene oxide supported Pt nanoparticles. <i>Renewable Energy</i> , 2020 , 152, 94-101	8.1	6
74	Working-in-tandem mechanism of multi-dopants in enhancing electrocatalytic nitrogen reduction reaction performance of carbon-based materials. <i>Nano Research</i> , 2021 , 14, 3234-3239	10	6
73	Effects of Solvent and Ion Source Pressure on the Analysis of Anabolic Steroids by Low Pressure Photoionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 724-728	3.5	5
72	Novel Thermotolerant and Flexible Polyimide Aerogel Separator Achieving Advanced Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 2106176	15.6	5
71	Understanding the Homogeneous Reactions of Primary Tar from Biomass Pyrolysis by Means of Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2020 , 34, 12678-12687	4.1	5
70	Exploring low temperature oxidation of 1-butene in jet-stirred reactors. <i>Combustion and Flame</i> , 2020 , 222, 259-271	5.3	5
69	Experimental and kinetic modeling studies of 2-ethylfuran pyrolysis at low and atmospheric pressures. <i>Combustion and Flame</i> , 2021 , 226, 430-444	5.3	5
68	Comparing the pyrolysis kinetics of dimethoxymethane and 1,2-dimethoxyethane: An experimental and kinetic modeling study. <i>Combustion and Flame</i> , 2021 , 226, 260-273	5.3	5
67	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	5.3	5

66	Experimental and kinetic modeling study of methyl heptanoate low-temperature oxidation in a jet-stirred reactor. <i>Fuel</i> , 2021 , 283, 118885	7.1	5
65	Experimental and Kinetic Modeling Studies of Methyl 2-Furoate Pyrolysis at Atmospheric Pressure. <i>Energy & Fuels</i> , 2019 , 33, 4611-4620	4.1	4
64	Elucidating the flame chemistry of monoglyme via experimental and modeling approaches. <i>Combustion and Flame</i> , 2018 , 191, 298-308	5.3	4
63	Microstructure and properties of nc-TiC/a-C:H films deposited by radio frequency reactive sputtering. <i>Materials Science and Technology</i> , 2011 , 27, 1669-1673	1.5	4
62	Experimental and kinetic modeling study of 1-methyl-naphthalene pyrolysis: Part II. PAH formation. <i>Combustion and Flame</i> , 2021 , 233, 111530	5.3	4
61	Exploring the oxidation chemistry of diisopropyl ether: Jet-stirred reactor experiments and kinetic modeling. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 321-328	5.9	4
60	Pyrolysis chemistry of n-propylcyclohexane via experimental and modeling approaches. <i>Fuel</i> , 2021 , 283, 118847	7.1	4
59	Continuous Butadiyne Addition to Propargyl: A Radical-Efficient Pathway for Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8109-8114	6.4	4
58	Moiré technique for spatial coherence measurements of soft-x-ray lasers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000 , 17, 790-3	1.8	3
57	Experimental and Kinetic Modeling Studies of 3-Methylfuran Pyrolysis at Low and Atmospheric Pressures. <i>Energy & Fuels</i> , 2020 , 34, 981-988	4.1	3
56	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	5.9	3
55	Thermal decomposition of furans with oxygenated substituents: A combined experimental and quantum chemical study. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 699-707	5.9	3
54	Unraveling synergistic effects on pyrolysis reactivity and indene formation in co-pyrolysis of toluene and acetylene. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 1413-1421	5.9	3
53	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	5.9	3
52	Insights into the interaction kinetics between propene and NOx at moderate temperatures with experimental and modeling methods. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 795-803	5.9	3
51	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	5.9	3
50	Vacuum ultraviolet photochemistry of the conformers of the ethyl peroxy radical. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22096-22102	3.6	3
49	Exploration on Thermal Decomposition of Cyclopentanone: A Flow Reactor Pyrolysis and Kinetic Modeling Study. <i>Energy & Fuels</i> , 2021 , 35, 14023-14034	4.1	3

48	A comprehensive study on low-temperature oxidation chemistry of cyclohexane. II. Experimental and kinetic modeling investigation. <i>Combustion and Flame</i> , 2021 , 235, 111550	5.3	3
47	Experimental and kinetic modeling studies of di-n-propyl ether pyrolysis at low and atmospheric pressures. <i>Fuel</i> , 2021 , 298, 120797	7.1	3
46	Combustion synthesis and characterization of Fe-Ni alloys. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2011 , 20, 134-139	0.7	2
45	Variable pressure JSR study of low temperature oxidation chemistry of n-heptane by synchrotron photoionization mass spectrometry. <i>Combustion and Flame</i> , 2022 , 240, 111946	5.3	2
44	Inception of Carbonaceous Nanostructures via Hydrogen-Abstraction Phenylacetylene-Addition Mechanism. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	2
43	Investigation on n-pentylbenzene combustion at various pressures: Insight into effects of side-chain length on alkylbenzene combustion. <i>Combustion and Flame</i> , 2022 , 238, 111976	5.3	2
42	Experimental and kinetic modeling study of di-n-propyl ether and diisopropyl ether combustion: Pyrolysis and laminar flame propagation velocity. <i>Combustion and Flame</i> , 2022 , 237, 111809	5.3	2
41	A high-pressure reactor coupled to synchrotron radiation photoionization mass spectrometry. <i>Review of Scientific Instruments</i> , 2020 , 91, 093102	1.7	2
40	Complexity of plastic instability in amorphous solids: Insights from spatiotemporal evolution of vibrational modes. <i>European Physical Journal E</i> , 2020 , 43, 56	1.5	2
39	Online Monitoring the Key Intermediates and Volatile Compounds Evolved from Green Tea Roasting by Synchrotron Radiation Photoionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1402-1411	3.5	2
38	Experimental study of nitropropane pyrolysis with molecular-beam mass spectrometry and tunable synchrotron VUV photoionization. Part I. The flow reactor pyrolysis of 1-nitropropane. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 155, 105051	6	2
37	Thermal decomposition of 1-hexene by flash pyrolysis: A study of initial decomposition mechanism. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 651-659	5.9	2
36	Exploring chemical kinetics of plasma assisted oxidation of dimethyl ether (DME). <i>Combustion and Flame</i> , 2021 , 225, 388-394	5.3	2
35	Exploring combustion chemistry of 1-pentene: Flow reactor pyrolysis at various pressures and development of a detailed combustion model. <i>International Journal of Chemical Kinetics</i> , 2021 , 53, 514-526	5.4	2
34	Experimental and kinetic modeling studies of furfural pyrolysis at low and atmospheric pressures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 157, 105161	6	2
33	Exploring the interaction kinetics of butene isomers and NO _x at low temperatures and diluted conditions. <i>Combustion and Flame</i> , 2021 , 233, 111557	5.3	2
32	Effect of the modification of alumina supports with chloride on the structure and catalytic performance of Ag/Al ₂ O ₃ catalysts for the selective catalytic reduction of NO _x with propene and H ₂ /propene. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 2242-2253	11.3	2
31	Experimental and theoretical studies of pyrolysis of chrysophanol and its derivatives. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 100, 237-244	6	1

30	Microstructure and mechanical behaviour of (Fe88Si12)95Al5 alloy prepared by aluminothermics. <i>Materials Science and Technology</i> , 2011 , 27, 1482-1484	1.5	1
29	Effects of cryogenic treatment on the mechanical and dry-sliding tribological behaviour of an Fe75Ni25 alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2012 , 226, 71-78	1.4	1
28	Experimental and kinetic modeling study of the homogeneous chemistry of NH3 and NOx with CH4 at the diluted conditions. <i>Combustion and Flame</i> , 2022 , 112015	5.3	1
27	CH3EGenerating Capability as a Reactivity Descriptor for Metal Oxides in Oxidative Coupling of Methane. <i>ACS Catalysis</i> , 2021 , 11, 14651-14659	13.1	1
26	Exploring the reaction chemistry of biomass upgrading over HZSM-5 catalyst through model compounds. <i>Fuel</i> , 2022 , 312, 122874	7.1	1
25	Atmospheric-Pressure Pyrolysis Study of Chlorobenzene Using Synchrotron Radiation Photoionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1949-1957	2.8	1
24	Identification of Isobars and Isomers in Cigarette Sidestream Smoke in Real Time by Synchrotron Radiation Photoionization Mass Spectrometry and Multiple Linear Regression. <i>Analytical Chemistry</i> , 2021 , 93, 5718-5726	7.8	1
23	Probing pyrolysis chemistry of 1-heptene pyrolysis with insight into fuel molecular structure effects. <i>Combustion and Flame</i> , 2021 , 227, 79-94	5.3	1
22	Combined experimental and theoretical study on photoionization cross sections of benzonitrile and o/m/p-cyanotoluene. <i>Journal of Chemical Physics</i> , 2021 , 154, 244301	3.9	1
21	Exploration of the pyrolysis chemistry of 1,1-diethoxybutane: A flow reactor and kinetic modeling study. <i>Fuel</i> , 2019 , 236, 437-444	7.1	1
20	Unraveling chemical structure of laminar premixed tetralin flames at low pressure with photoionization mass spectrometry and kinetic modeling. <i>International Journal of Chemical Kinetics</i> , 2021 , 53, 154-163	1.4	1
19	Experimental and kinetic modeling study of 1-methyl-naphthalene pyrolysis: Part I. Formation of monocyclic aromatics and small species. <i>Combustion and Flame</i> , 2021 , 111587	5.3	1
18	Molecular Orbital Insight into the Near-Threshold Photoionization Cross Sections of Monocyclic Substituted Aromatic Compounds. <i>Energy & Fuels</i> , 2021 , 35, 14051-14062	4.1	1
17	Pyrolysis of Lignocellulosic Biofuel Di-n-butyl Ether (DBE): Flow Reactor Experiments and Kinetic Modeling. <i>Energy & Fuels</i> , 2021 , 35, 14077-14086	4.1	1
16	Experimental and kinetic modeling studies of the low-temperature oxidation of 2-methylfuran in a jet-stirred reactor. <i>Combustion and Flame</i> , 2021 , 233, 111588	5.3	1
15	Formation and Fate of Formaldehyde in Methanol-to-Hydrocarbon Reaction: In Situ Synchrotron Radiation Photoionization Mass Spectrometry Study. <i>Angewandte Chemie</i> , 2020 , 132, 4903-4908	3.6	0
14	Influence of phase composition on fretting wear behavior of thermally sprayed aluminum bronze coatings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2013 , 227, 1030-1037	1.4	0
13	Group Type Analysis of Asphalt by Column Liquid Chromatography. <i>Petroleum Science and Technology</i> , 2008 , 26, 665-673	1.4	0

12	Conformation-dependent low-temperature oxidation chemistry of methylcyclohexane: First oxygen addition and chain-branching. <i>Combustion and Flame</i> , 2022 , 111963	5.3	0
11	Experimental and kinetic study on flash pyrolysis of biomass via on-line photoionization mass spectrometry. <i>Applications in Energy and Combustion Science</i> , 2022 , 9, 100057	0.8	0
10	Insights into the Decomposition and Oxidation Chemistry of -Xylene in Laminar Premixed Flames. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 3189-3197	2.8	0
9	Exploring pyrolysis and oxidation chemistry of o-xylene at various pressures with special concerns on PAH formation. <i>Combustion and Flame</i> , 2021 , 228, 351-363	5.3	0
8	A kinetic study on pyrolysis of iso-propylcyclohexane: Fuel structure effects of alkylcyclohexane isomers on reaction mechanisms. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 489-497	5.9	0
7	Experimental study of nitropropane pyrolysis with molecular-beam mass spectrometry and tunable synchrotron VUV photoionization. Part II. The flow reactor pyrolysis of 2-nitropropane. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 157, 105212	6	0
6	Experimental and kinetic modeling investigation on 2,5-hexanedione oxidation in a jet-stirred reactor. <i>Combustion and Flame</i> , 2021 , 234, 111648	5.3	0
5	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	5.3	0
4	Operando XAS Study of Pt-Doped CeO ₂ for the Nonoxidative Conversion of Methane. <i>ACS Catalysis</i> , 2022 , 12, 3897-3908	13.1	0
3	Experimental and kinetic modeling investigations on low-temperature oxidation of 2-ethylfuran in a jet-stirred reactor. <i>Combustion and Flame</i> , 2022 , 241, 112098	5.3	0
2	Optical configurations for free electron laser resonators with theoretical and numerical simulation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 622-625	0.4	
1	On-line photoionization mass spectrometric study of the catalytic pyrolysis of acrylonitrile-butadiene-styrene copolymer over HZSM-5, HUSY and Al-MCM-41. <i>Fuel</i> , 2022 , 307, 121937 ^{7.1}		