

Fei Qi

List of Publications by Year in descending order

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295
papers

13,763
citations

26630

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302
times ranked

7123
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#	ARTICLE	IF	CITATIONS
1	Selective conversion of syngas to light olefins. <i>Science</i> , 2016, 351, 1065-1068.	12.6	1,063
2	Biofuel Combustion Chemistry: From Ethanol to Biodiesel. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3572-3597.	13.8	587
3	Advances and challenges in laminar flame experiments and implications for combustion chemistry. <i>Progress in Energy and Combustion Science</i> , 2014, 43, 36-67.	31.2	434
4	An experimental and kinetic modeling study of premixed NH ₃ /CH ₄ /O ₂ /Ar flames at low pressure. <i>Combustion and Flame</i> , 2009, 156, 1413-1426.	5.2	359
5	Combustion chemistry probed by synchrotron VUV photoionization mass spectrometry. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 33-63.	3.9	340
6	Sulfur vacancy-rich MoS ₂ as a catalyst for the hydrogenation of CO ₂ to methanol. <i>Nature Catalysis</i> , 2021, 4, 242-250.	34.4	308
7	Enols Are Common Intermediates in Hydrocarbon Oxidation. <i>Science</i> , 2005, 308, 1887-1889.	12.6	306
8	Selective detection of isomers with photoionization mass spectrometry for studies of hydrocarbon flame chemistry. <i>Journal of Chemical Physics</i> , 2003, 119, 8356-8365.	3.0	266
9	Recent Applications of Synchrotron VUV Photoionization Mass Spectrometry: Insight into Combustion Chemistry. <i>Accounts of Chemical Research</i> , 2010, 43, 68-78.	15.6	209
10	Photoionization mass spectrometer for studies of flame chemistry with a synchrotron light source. <i>Review of Scientific Instruments</i> , 2005, 76, 094102.	1.3	208
11	Combustion of butanol isomers – A detailed molecular beam mass spectrometry investigation of their flame chemistry. <i>Combustion and Flame</i> , 2011, 158, 2-15.	5.2	196
12	Identification of combustion intermediates in isomeric fuel-rich premixed butanol–oxygen flames at low pressure. <i>Combustion and Flame</i> , 2007, 148, 198-209.	5.2	189
13	Experimental Study of a Fuel-Rich Premixed Toluene Flame at Low Pressure. <i>Energy & Fuels</i> , 2009, 23, 1473-1485.	5.1	184
14	Experimental Confirmation of the Low-Temperature Oxidation Scheme of Alkanes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3169-3172.	13.8	180
15	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.	5.2	177
16	Isomeric identification of polycyclic aromatic hydrocarbons formed in combustion with tunable vacuum ultraviolet photoionization. <i>Review of Scientific Instruments</i> , 2006, 77, 084101.	1.3	171
17	Experimental and modeling investigation of the low-temperature oxidation of n-heptane. <i>Combustion and Flame</i> , 2012, 159, 3455-3471.	5.2	165
18	Deciphering the working mechanism of aggregation-induced emission of tetraphenylethylene derivatives by ultrafast spectroscopy. <i>Chemical Science</i> , 2018, 9, 4662-4670.	7.4	150

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19	The vacuum ultraviolet beamline/endstations at ANSRL dedicated to combustion research. Journal of Synchrotron Radiation, 2016, 23, 1035-1045.	2.4	149
20	Identification and Chemistry of C ₄ H ₃ and C ₄ H ₅ Isomers in Fuel-Rich Flames. Journal of Physical Chemistry A, 2006, 110, 3670-3678.	2.5	143
21	An experimental and kinetic modeling study of three butene isomers pyrolysis at low pressure. Combustion and Flame, 2012, 159, 905-917.	5.2	141
22	An experimental study of the premixed benzene/oxygen/argon flame with tunable synchrotron photoionization. Proceedings of the Combustion Institute, 2007, 31, 555-563.	3.9	131
23	Experimental and kinetic modeling study on methylcyclohexane pyrolysis and combustion. Combustion and Flame, 2014, 161, 84-100.	5.2	126
24	Experimental and Kinetic Modeling Study of <i>n</i> -Butanol Pyrolysis and Combustion. Energy & Fuels, 2012, 26, 5550-5568.	5.1	123
25	Experimental and kinetic modeling study of the low- and intermediate-temperature oxidation of dimethyl ether. Combustion and Flame, 2015, 162, 1113-1125.	5.2	120
26	Determination of absolute photoionization cross-sections of aromatics and aromatic derivatives. Rapid Communications in Mass Spectrometry, 2009, 23, 3994-4002.	1.5	114
27	An experimental and kinetic investigation of premixed furan/oxygen/argon flames. Combustion and Flame, 2011, 158, 756-773.	5.2	113
28	Investigation on chemical structures of premixed toluene flames at low pressure. Proceedings of the Combustion Institute, 2011, 33, 593-600.	3.9	113
29	An experimental and theoretical study of toluene pyrolysis with tunable synchrotron VUV photoionization and molecular-beam mass spectrometry. Combustion and Flame, 2009, 156, 2071-2083.	5.2	111
30	Kinetic modeling study of toluene pyrolysis at low pressure. Combustion and Flame, 2010, 157, 1686-1697.	5.2	111
31	An experimental and kinetic modeling study of cyclohexane pyrolysis at low pressure. Combustion and Flame, 2012, 159, 2243-2253.	5.2	110
32	Detailed product analysis during the low temperature oxidation of <i>n</i> -butane. Physical Chemistry Chemical Physics, 2011, 13, 296-308.	2.8	108
33	Investigation on the pyrolysis and oxidation of toluene over a wide range conditions. II. A comprehensive kinetic modeling study. Combustion and Flame, 2015, 162, 22-40.	5.2	108
34	Experimental and kinetic modeling study of 2,5-dimethylfuran pyrolysis at various pressures. Combustion and Flame, 2014, 161, 2496-2511.	5.2	103
35	A comprehensive experimental study of low-pressure premixed C ₃ -oxygenated hydrocarbon flames with tunable synchrotron photoionization. Combustion and Flame, 2008, 152, 336-359.	5.2	87
36	Experimental and kinetic modeling study of pyrolysis and oxidation of <i>n</i> -decane. Combustion and Flame, 2014, 161, 1701-1715.	5.2	87

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37	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.	5.2	85
38	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.	5.2	83
39	Methyl Radicals in Oxidative Coupling of Methane Directly Confirmed by Synchrotron VUV Photoionization Mass Spectroscopy. <i>Scientific Reports</i> , 2013, 3, 1625.	3.3	75
40	Pyrolysis of Methyl <i>tert</i> -Butyl Ether (MTBE). 1. Experimental Study with Molecular-Beam Mass Spectrometry and Tunable Synchrotron VUV Photoionization. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10487-10494.	2.5	74
41	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.	11.2	71
42	An experimental and kinetic modeling study of a premixed nitromethane flame at low pressure. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 311-318.	3.9	70
43	Kinetics of ethylcyclohexane pyrolysis and oxidation: An experimental and detailed kinetic modeling study. <i>Combustion and Flame</i> , 2015, 162, 2873-2892.	5.2	70
44	Kinetic modeling study of benzene and PAH formation in laminar methane flames. <i>Combustion and Flame</i> , 2015, 162, 1692-1711.	5.2	67
45	Investigation of the rich premixed laminar acetylene/oxygen/argon flame: Comprehensive flame structure and special concerns of polyynes. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 1293-1300.	3.9	66
46	New Phased Metastable $V_{2}O_{3}$ Porous Urchinlike Micronanostructures: Facile Synthesis and Application in Aqueous Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2011, 17, 384-391.	3.3	66
47	Measuring hydroperoxide chain-branching agents during n-pentane low-temperature oxidation. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 333-342.	3.9	66
48	A comprehensive experimental and kinetic modeling study of ethylbenzene combustion. <i>Combustion and Flame</i> , 2016, 166, 255-265.	5.2	65
49	New experimental evidences about the formation and consumption of ketohydroperoxides. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 325-331.	3.9	64
50	Experimental and Modeling Investigation of <i>n</i> -Decane Pyrolysis at Supercritical Pressures. <i>Energy & Fuels</i> , 2014, 28, 6019-6028.	5.1	62
51	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.	5.1	62
52	Pyrolysis study of poplar biomass by tunable synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 2347-2354.	3.9	61
53	Accelerate global sensitivity analysis using artificial neural network algorithm: Case studies for combustion kinetic model. <i>Combustion and Flame</i> , 2016, 168, 53-64.	5.2	61
54	Experimental and kinetic modeling study of 2-butanol pyrolysis and combustion. <i>Combustion and Flame</i> , 2013, 160, 1939-1957.	5.2	58

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55	Online Analysis of Volatile Products from Bituminous Coal Pyrolysis with Synchrotron Vacuum Ultraviolet Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2013, 27, 694-701.	5.1	58
56	Study of the Low Temperature Oxidation of Propane. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12214-12228.	2.5	57
57	Determination of absolute photoionization cross-sections of oxygenated hydrocarbons. <i>International Journal of Mass Spectrometry</i> , 2010, 293, 28-33.	1.5	56
58	Experimental and modeling investigation on premixed ethylbenzene flames at low pressure. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 617-624.	3.9	56
59	Investigation on pyrolysis mechanism of guaiacol as lignin model compound at atmospheric pressure. <i>Fuel</i> , 2018, 232, 632-638.	6.4	56
60	An experimental and kinetic modeling study of premixed nitromethane flames at low pressure. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 407-414.	3.9	55
61	Online Analysis of Biomass Pyrolysis Tar by Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 1555-1563.	5.1	55
62	Revealing the chemistry of biomass pyrolysis by means of tunable synchrotron photoionisation-mass spectrometry. <i>RSC Advances</i> , 2013, 3, 4786.	3.6	54
63	A coordinated investigation of the combustion chemistry of diisopropyl ketone, a prototype for biofuels produced by endophytic fungi. <i>Combustion and Flame</i> , 2014, 161, 711-724.	5.2	54
64	Catalytic oxidation of hydrocarbons over Co ₃ O ₄ catalyst prepared by CVD. <i>Catalysis Communications</i> , 2009, 11, 118-122.	3.3	53
65	Direct Confined Space Combustion Forming Monoclinic Vanadium Dioxides. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 134-137.	13.8	53
66	Determination of absolute photoionization cross-sections of alkanes and cycloalkanes. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1335-1342.	1.5	53
67	Experimental and kinetic modeling study of tetralin pyrolysis at low pressure. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1739-1748.	3.9	53
68	An experimental study of low-pressure premixed pyrrole/oxygen/argon flames with tunable synchrotron photoionization. <i>Combustion and Flame</i> , 2007, 151, 347-365.	5.2	52
69	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.	3.9	52
70	Low-temperature gas-phase oxidation of diethyl ether: Fuel reactivity and fuel-specific products. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 511-519.	3.9	52
71	An experimental study of the rich premixed ethylbenzene flame at low pressure. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 647-655.	3.9	51
72	Identification of isomeric C ₅ H ₃ and C ₅ H ₅ free radicals in flame with tunable synchrotron photoionization. <i>Chemical Physics Letters</i> , 2006, 423, 321-326.	2.6	50

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73	Pyrolysis of <i>n</i> -Heptane: Experimental and Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 1593-1601.	2.5	50
74	An experimental and modeling study of methyl propanoate pyrolysis at low pressure. Combustion and Flame, 2013, 160, 1958-1966.	5.2	50
75	Products from the Oxidation of Linear Isomers of Hexene. Journal of Physical Chemistry A, 2014, 118, 673-683.	2.5	50
76	Experimental and kinetic modeling study of diethyl ether flames. Proceedings of the Combustion Institute, 2017, 36, 1165-1173.	3.9	50
77	Formation and Fate of Formaldehyde in Methanol-Hydrocarbon Reaction: In Situ Synchrotron Radiation Photoionization Mass Spectrometry Study. Angewandte Chemie - International Edition, 2020, 59, 4873-4878.	13.8	50
78	Investigation on primary decomposition of ethylcyclohexane at atmospheric pressure. Proceedings of the Combustion Institute, 2015, 35, 367-375.	3.9	47
79	Experimental and kinetic modeling study of styrene combustion. Combustion and Flame, 2015, 162, 1868-1883.	5.2	47
80	Pyrolysis of <i>n</i> -Butylbenzene at Various Pressures: Influence of Long Side-Chain Structure on Alkylbenzene Pyrolysis. Energy & Fuels, 2017, 31, 14270-14279.	5.1	47
81	Modification of photoionization mass spectrometer with synchrotron radiation as ionization source. Review of Scientific Instruments, 2005, 76, 126108.	1.3	46
82	Two-dimensional temperature and carbon dioxide concentration profiles in atmospheric laminar diffusion flames measured by mid-infrared direct absorption spectroscopy at 4.2 μ m. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	46
83	Experimental and kinetic modeling study of premixed <i>o</i> -xylene flames. Proceedings of the Combustion Institute, 2015, 35, 1745-1752.	3.9	45
84	Online Study on the Catalytic Pyrolysis of Bituminous Coal over HUSY and HZSM-5 with Photoionization Time-of-Flight Mass Spectrometry. Energy & Fuels, 2016, 30, 1598-1604.	5.1	45
85	Nickel and Nickel-Based Nanoalloy Thin Films from Alcohol-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2010, 22, 92-100.	6.7	44
86	Kinetics of Decomposition and Isomerization of Methylcyclohexane: Starting Point for Studying Monoalkylated Cyclohexanes Combustion. Energy & Fuels, 2013, 27, 1679-1687.	5.1	44
87	Experimental Investigation of the Low Temperature Oxidation of the Five Isomers of Hexane. Journal of Physical Chemistry A, 2014, 118, 5573-5594.	2.5	44
88	Acetaldehyde oxidation at low and intermediate temperatures: An experimental and kinetic modeling investigation. Combustion and Flame, 2018, 191, 431-441.	5.2	43
89	Experimental and theoretical investigation on cellular instability of methanol/air flames. Fuel, 2018, 225, 95-103.	6.4	42
90	An experimental and kinetic modeling investigation on a rich premixed <i>n</i> -propylbenzene flame at low pressure. Proceedings of the Combustion Institute, 2013, 34, 1785-1793.	3.9	41

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91	Recent developments in synchrotron vacuum ultraviolet photoionization coupled to mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1400-1409.	11.4	40
92	An experimental study on the formation of polycyclic aromatic hydrocarbons in laminar coflow non-premixed methane/air flames doped with four isomeric butanols. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 779-786.	3.9	40
93	Experimental and kinetic modeling study of PAH formation in methane coflow diffusion flames doped with n-butanol. <i>Combustion and Flame</i> , 2014, 161, 657-670.	5.2	40
94	A comprehensive experimental and kinetic modeling study of n-propylbenzene combustion. <i>Combustion and Flame</i> , 2017, 186, 178-192.	5.2	40
95	Photodissociation of Ethylene Sulfide at 193 nm: A Photofragment Translational Spectroscopy Study with VUV Synchrotron Radiation and ab Initio Calculations. <i>Journal of the American Chemical Society</i> , 2001, 123, 148-161.	13.7	39
96	A thermal decomposition study of polymers by tunable synchrotron vacuum ultraviolet photoionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1269-1274.	1.5	39
97	Competing isomeric product channels in the 193 nm photodissociation of 2-chloropropene and in the unimolecular dissociation of the 2-propenyl radical. <i>Journal of Chemical Physics</i> , 2001, 114, 4505.	3.0	38
98	Lean Premixed Gasoline/Oxygen Flame Studied with Tunable Synchrotron Vacuum UV Photoionization. <i>Energy & Fuels</i> , 2006, 20, 1505-1513.	5.1	38
99	Experimental and theoretical study of the dissociation energies $D_0(\text{H}_2\text{N}^+ \rightarrow \text{H})$ and $D_0(\text{H}_2\text{N} + \hat{\text{i}} \rightarrow \text{H})$ and other related quantities. <i>Chemical Physics Letters</i> , 1995, 234, 450-454.	2.6	37
100	Ultraviolet photodissociation of furan probed by tunable synchrotron radiation. <i>Journal of Chemical Physics</i> , 1999, 111, 100-107.	3.0	37
101	C-Cl bond fission, HCl elimination, and secondary radical decomposition in the 193 nm photodissociation of allyl chloride. <i>Journal of Chemical Physics</i> , 2002, 116, 2763-2775.	3.0	37
102	The tunable VUV single-photon ionization mass spectrometry for the analysis of individual components in gasoline. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 30-37.	1.5	36
103	Determination of absolute photoionization cross-sections of nitrogenous compounds. <i>International Journal of Mass Spectrometry</i> , 2011, 303, 137-146.	1.5	36
104	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.	3.9	36
105	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.	5.2	36
106	Harnessing peak transmission around symptom onset for non-pharmaceutical intervention and containment of the COVID-19 pandemic. <i>Nature Communications</i> , 2021, 12, 1147.	12.8	36
107	An Experimental and Theoretical Study of Pyrrole Pyrolysis with Tunable Synchrotron VUV Photoionization and Molecular-Beam Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5397-5405.	2.5	35
108	Experimental and kinetic modeling study of n-pentanol pyrolysis and combustion. <i>Combustion and Flame</i> , 2015, 162, 3277-3287.	5.2	35

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109	Online photoionization mass spectrometric evaluation of catalytic co-pyrolysis of cellulose and polyethylene over HZSM-5. <i>Bioresource Technology</i> , 2019, 275, 130-137.	9.6	34
110	Experimental and kinetic modeling investigation on anisole pyrolysis: Implications on phenoxy and cyclopentadienyl chemistry. <i>Combustion and Flame</i> , 2019, 201, 187-199.	5.2	34
111	A Vacuum Ultraviolet Photoionization Mass Spectrometric Study of Acetone. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4231-4241.	2.5	33
112	Evidence of a Phenolic Pool as a Key Intermediate for Zeolite-Catalyzed Lignin Pyrolysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2643-2647.	13.8	33
113	Interstellar Enols Are Formed in Plasma Discharges of Alcohols. <i>Astrophysical Journal</i> , 2008, 676, 416-419.	4.5	32
114	Experimental and detailed kinetic modeling study of PAH formation in laminar co-flow methane diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1811-1818.	3.9	32
115	Identification of Combustion Intermediates in Low-Pressure Premixed Pyridine/Oxygen/Argon Flames. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13549-13555.	2.5	31
116	Pyrolysis Study on Solid Fuels: From Conventional Analytical Methods to Synchrotron Vacuum Ultraviolet Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 1534-1543.	5.1	31
117	On-line photoionization mass spectrometric study of lignin and lignite co-pyrolysis: Insight into the synergetic effect. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 285-292.	5.5	31
118	Experimental and kinetic modeling investigation on ethylcyclohexane low-temperature oxidation in a jet-stirred reactor. <i>Combustion and Flame</i> , 2020, 214, 211-223.	5.2	31
119	Experimental and theoretical studies of the photoionization and dissociative photoionizations of vinyl chloride. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 148, 179-189.	1.8	30
120	Photofragment translational spectroscopy of 1,2-butadiene at 193 nm. <i>Journal of Chemical Physics</i> , 2001, 115, 8359-8365.	3.0	30
121	Theoretical Studies on the Unimolecular Decomposition of Ethylene Glycol. <i>Journal of Physical Chemistry A</i> , 2012, 116, 55-63.	2.5	30
122	Experimental investigation of entropy waves generated from acoustically excited premixed swirling flame. <i>Combustion and Flame</i> , 2019, 204, 85-102.	5.2	30
123	Experimental and kinetic modeling study of tert-butanol combustion at low pressure. <i>Energy</i> , 2012, 43, 94-102.	8.8	29
124	An experimental and kinetic modeling study of premixed nitroethane flames at low pressure. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 617-624.	3.9	29
125	Real-time monitoring biomass pyrolysis via on-line photoionization ultrahigh-resolution mass spectrometry. <i>Fuel</i> , 2019, 235, 962-971.	6.4	29
126	Fragment-controllable mass spectrometric analysis of organic compounds with an infrared laser desorption/tunable vacuum ultraviolet photoionization technique. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1619-1623.	1.5	28

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127	Experimental and kinetic modeling study of i-butanol pyrolysis and combustion. <i>Combustion and Flame</i> , 2014, 161, 1955-1971.	5.2	28
128	Toward real-time volumetric tomography for combustion diagnostics via dimension reduction. <i>Optics Letters</i> , 2018, 43, 1107.	3.3	28
129	Evidence of triplet ethylene produced from photodissociation of ethylene sulfide. <i>Journal of Chemical Physics</i> , 2000, 112, 10707-10710.	3.0	27
130	Electrospray/VUV single-photon ionization mass spectrometry for the analysis of organic compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 430-434.	2.8	27
131	Using sensitivity entropy in experimental design for uncertainty minimization of combustion kinetic models. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 709-716.	3.9	27
132	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.	3.9	26
133	Probing the low-temperature chemistry of di-n-butyl ether: Detection of previously unobserved intermediates. <i>Combustion and Flame</i> , 2019, 210, 9-24.	5.2	26
134	An Experimental Study of Rich Premixed Gasoline/O ₂ /Ar Flame with Tunable Synchrotron Vacuum Ultraviolet Photoionization. <i>Energy & Fuels</i> , 2007, 21, 1931-1941.	5.1	25
135	Photoionization studies on various quinones by an infrared laser desorption/tunable VUV photoionization TOF mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1701-1710.	1.6	25
136	Ab initio kinetics on low temperature oxidation of iso-pentane: The first oxygen addition. <i>Combustion and Flame</i> , 2018, 190, 119-132.	5.2	25
137	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.	5.2	24
138	Experimental and theoretical study of the photoionization and dissociative photoionizations of dichlorodifluoromethane. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 161, 151-159.	1.8	23
139	IDENTIFYING COMBUSTION INTERMEDIATES VIA TUNABLE VACUUM ULTRAVIOLET PHOTOIONIZATION MASS SPECTROMETRY. <i>Combustion Science and Technology</i> , 2005, 177, 2021-2037.	2.3	23
140	Conformation-Specific Pathways of Î²-Alanine: A Vacuum Ultraviolet Photoionization and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5838-5845.	2.5	22
141	Intramolecular hydrogen transfer in the ionization process of Î±-alanine. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1189.	2.8	22
142	Ultrasonic nebulization extraction/low pressure photoionization mass spectrometry for direct analysis of chemicals in matrices. <i>Analytica Chimica Acta</i> , 2015, 891, 203-210.	5.4	22
143	A comprehensive experimental and kinetic modeling study of tert-butanol combustion. <i>Combustion and Flame</i> , 2016, 169, 154-170.	5.2	22
144	In Situ Atmospheric Pressure Photoionization Mass Spectrometric Monitoring of Initial Pyrolysis Products of Biomass in Real Time. <i>Analytical Chemistry</i> , 2020, 92, 603-606.	6.5	22

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145	The Ultraviolet Photochemistry of Phenylacetylene and the Enthalpy of Formation of 1,3,5-Hexatriyne. <i>Journal of the American Chemical Society</i> , 2001, 123, 671-676.	13.7	21
146	Note: A novel vacuum ultraviolet light source assembly with aluminum-coated electrodes for enhancing the ionization efficiency of photoionization mass spectrometry. <i>Review of Scientific Instruments</i> , 2014, 85, 046110.	1.3	21
147	Interlocking Mechanism between Molecular Gears Attached to Surfaces. <i>ACS Nano</i> , 2018, 12, 3020-3029.	14.6	21
148	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.	5.2	21
149	193-nm photodissociation of acryloyl chloride to probe the unimolecular dissociation of CH ₂ CHCO radicals and CH ₂ CCO. <i>Journal of Chemical Physics</i> , 2004, 120, 4223-4230.	3.0	20
150	Photoionisation and photodissociation studies of nonvolatile organic molecules by synchrotron VUV photoionisation mass spectrometry and theoretical calculations. <i>International Reviews in Physical Chemistry</i> , 2010, 29, 369-401.	2.3	20
151	Experimental and kinetic modeling study of laminar coflow diffusion methane flames doped with 2-butanol. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 863-871.	3.9	20
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