Craig A Taatjes

List of Publications by Year
in descending order

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205	11,325	54	96
papers	citations	h-index	g-index
		30070	37204

220	220	220	4319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prospects and Limitations of Predicting Fuel Ignition Properties from Low-Temperature Speciation Data. Energy & Fuels, 2022, 36, 3229-3238.	5.1	1
2	Dramatic Conformer-Dependent Reactivity of the Acetaldehyde Oxide Criegee Intermediate with Dimethylamine <i>Via</i> a 1,2-Insertion Mechanism. Journal of Physical Chemistry A, 2022, 126, 710-719.	2.5	4
3	Reaction mechanisms of a cyclic ether intermediate: Ethyloxirane. International Journal of Chemical Kinetics, 2021, 53, 43-59.	1.6	20
4	Isomerâ€dependent reaction mechanisms of cyclic ether intermediates: <i>cis</i>â€2,3â€dimethyloxirane and <i>trans</i>â€2,3â€dimethyloxirane. International Journal of Chemical Kinetics, 2021, 53, 127-145.	1.6	17
5	The impact of the third O2 addition reaction network on ignition delay times of neo-pentane. Proceedings of the Combustion Institute, 2021, 38, 299-307.	3.9	8
6	Five <i>vs.</i> six membered-ring PAH products from reaction of <i>o</i>-methylphenyl radical and two C₃H₄ isomers. Physical Chemistry Chemical Physics, 2021, 23, 14913-14924.	2.8	0
7	Investigation of the Production of Trifluoroacetic Acid from Two Halocarbons, HFC-134a and HFO-1234yf and Its Fates Using a Global Three-Dimensional Chemical Transport Model. ACS Earth and Space Chemistry, 2021, 5, 849-857.	2.7	19
8	Valence Photoionization and Autoionization of the Formyl Radical. Journal of Physical Chemistry A, 2021, 125, 3874-3884.	2.5	5
9	Functionalized Hydroperoxide Formation from the Reaction of Methacrolein-Oxide, an Isoprene-Derived Criegee Intermediate, with Formic Acid: Experiment and Theory. Molecules, 2021, 26, 3058.	3.8	16
10	Absolute Photoionization Cross Section of the Simplest Enol, Vinyl Alcohol. Journal of Physical Chemistry A, 2021, 125, 7920-7928.	2.5	8
11	Influence of functional groups on low-temperature combustion chemistry of biofuels. Progress in Energy and Combustion Science, 2021, 86, 100925.	31.2	58
12	Experimental Observation of Hydrocarbon Growth by Resonanceâ€Stabilized Radicalâ€"Radical Chain Reaction. Angewandte Chemie - International Edition, 2021, 60, 27230-27235.	13.8	17
13	Formic acid catalyzed isomerization and adduct formation of an isoprene-derived Criegee intermediate: experiment and theory. Physical Chemistry Chemical Physics, 2020, 22, 26796-26805.	2.8	13
14	Criegee intermediates: production, detection and reactivity. International Reviews in Physical Chemistry, 2020, 39, 385-424.	2.3	56
15	Investigating the Atmospheric Sources and Sinks of Perfluorooctanoic Acid Using a Global Chemistry Transport Model. Atmosphere, 2020, 11, 407.	2.3	7
16	Experimental Evidence of Dioxole Unimolecular Decay Pathway for Isoprene-Derived Criegee Intermediates. Journal of Physical Chemistry A, 2020, 124, 3542-3554.	2.5	30
17	Direct kinetic measurements and theoretical predictions of an isoprene-derived Criegee intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9733-9740.	7.1	63
18	Ì‡QOOH-mediated reactions in cyclohexene oxidation. Proceedings of the Combustion Institute, 2019, 37, 323-335.	3.9	21

#	Article	IF	Citations
19	Product detection study of the gas-phase oxidation of methylphenyl radicals using synchrotron photoionisation mass spectrometry. Physical Chemistry Chemical Physics, 2019, 21, 17939-17949.	2.8	8
20	Experimental and computational studies of Criegee intermediate reactions with NH₃ and CH₃NH₂. Physical Chemistry Chemical Physics, 2019, 21, 14042-14052.	2.8	46
21	Influence of the Ether Functional Group on Ketohydroperoxide Formation in Cyclic Hydrocarbons: Tetrahydropyran and Cyclohexane. Journal of Physical Chemistry A, 2019, 123, 3634-3646.	2.5	23
22	Reaction of Perfluorooctanoic Acid with Criegee Intermediates and Implications for the Atmospheric Fate of Perfluorocarboxylic Acids. Environmental Science & Technology, 2019, 53, 1245-1251.	10.0	21
23	Criegee intermediates and their impacts on the troposphere. Environmental Sciences: Processes and Impacts, 2018, 20, 437-453.	3.5	136
24	Study of low temperature chlorine atom initiated oxidation of methyl and ethyl butyrate using synchrotron photoionization TOF-mass spectrometry. Physical Chemistry Chemical Physics, 2018, 20, 5785-5794.	2.8	3
25	Direct measurement of Ë™OH and HO₂Ë™ formation in Ë™R + O₂ reactions of cyclohexane and tetrahydropyran. Physical Chemistry Chemical Physics, 2018, 20, 10815-10825.	2.8	13
26	The reaction of hydroxyl and methylperoxy radicals is not a major source of atmospheric methanol. Nature Communications, 2018, 9, 4343.	12.8	32
27	Investigating the Tropospheric Chemistry of Acetic Acid Using the Global 3â€Đ Chemistry Transport Model, STOCHEMâ€CRI. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6267-6281.	3.3	19
28	Criegee Intermediate Reactions with Carboxylic Acids: A Potential Source of Secondary Organic Aerosol in the Atmosphere. ACS Earth and Space Chemistry, 2018, 2, 833-842.	2.7	102
29	Direct kinetics study of CH₂OO + methyl vinyl ketone and CH₂OO + methacrolein reactions and an upper limit determination for CH₂OO + CO reaction. Physical Chemistry Chemical Physics, 2018, 20, 19373-19381.	2.8	20
30	Vacuum ultraviolet photoionization cross section of the hydroxyl radical. Journal of Chemical Physics, 2018, 148, 184302.	3.0	20
31	Influence of oxygenation in cyclic hydrocarbons on chain-termination reactions from R + O2: tetrahydropyran and cyclohexane. Proceedings of the Combustion Institute, 2017, 36, 597-606.	3.9	33
32	Criegee Intermediates: What Direct Production and Detection Can Teach Us About Reactions of Carbonyl Oxides. Annual Review of Physical Chemistry, 2017, 68, 183-207.	10.8	98
33	Time-resolved measurements of product formation in the low-temperature (550â€"675 K) oxidation of neopentane: a probe to investigate chain-branching mechanism. Physical Chemistry Chemical Physics, 2017, 19, 13731-13745.	2.8	20
34	Products of Criegee intermediate reactions with NO₂: experimental measurements and tropospheric implications. Faraday Discussions, 2017, 200, 313-330.	3.2	38
35	Hydroxyacetone Production From C₃ Criegee Intermediates. Journal of Physical Chemistry A, 2017, 121, 16-23.	2.5	27
36	The reaction of Criegee intermediate CH₂OO with water dimer: primary products and atmospheric impact. Physical Chemistry Chemical Physics, 2017, 19, 21970-21979.	2.8	83

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37	Atmospheric chemistry processes: general discussion. Faraday Discussions, 2017, 200, 353-378.	3.2	0
38	New tools for atmospheric chemistry: general discussion. Faraday Discussions, 2017, 200, 663-691.	3.2	0
39	Direct Measurements of Unimolecular and Bimolecular Reaction Kinetics of the Criegee Intermediate (CH₃)₂COO. Journal of Physical Chemistry A, 2017, 121, 4-15.	2.5	87
40	Seasonality of Formic Acid (HCOOH) in London during the ClearfLo Campaign. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,488.	3.3	18
41	Quantification of the Keto-Hydroperoxide (HOOCH₂OCHO) and Other Elusive Intermediates during Low-Temperature Oxidation of Dimethyl Ether. Journal of Physical Chemistry A, 2016, 120, 7890-7901.	2.5	104
42	Pressure-Dependent Competition among Reaction Pathways from First- and Second-O₂ Additions in the Low-Temperature Oxidation of Tetrahydrofuran. Journal of Physical Chemistry A, 2016, 120, 6582-6595.	2.5	40
43	Resonance Stabilization Effects on Ketone Autoxidation: Isomer-Specific Cyclic Ether and Ketohydroperoxide Formation in the Low-Temperature (400â€“625 K) Oxidation of Diethyl Ketone. Journal of Physical Chemistry A, 2016, 120, 8625-8636.	2.5	11
44	Additional chain-branching pathways in the low-temperature oxidation of branched alkanes. Combustion and Flame, 2016, 164, 386-396.	5.2	94
45	Low Temperature Chlorine-Initiated Oxidation of Small-Chain Methyl Esters: Quantification of Chain-Terminating HO₂-Elimination Channels. Journal of Physical Chemistry A, 2016, 120, 1677-1690.	2.5	6
46	Formation and stability of gas-phase o-benzoquinone from oxidation of ortho-hydroxyphenyl: a combined neutral and distonic radical study. Physical Chemistry Chemical Physics, 2016, 18, 4320-4332.	2.8	24
47	Rapid Discovery and Functional Characterization of Terpene Synthases from Four Endophytic Xylariaceae. PLoS ONE, 2016, 11, e0146983.	2.5	33
48	Influence of temperature and resonance-stabilization on the ortho -effect in cymene oxidation. Proceedings of the Combustion Institute, 2015, 35, 543-552.	3.9	7
49	Chlorine atom-initiated low-temperature oxidation of prenol and isoprenol: The effect of C C double bonds on the peroxy radical chemistry in alcohol oxidation. Proceedings of the Combustion Institute, 2015, 35, 401-408.	3.9	6
50	Direct observation and kinetics of a hydroperoxyalkyl radical (QOOH). Science, 2015, 347, 643-646.	12.6	130
51	Detection and Identification of the Keto-Hydroperoxide (HOOCH₂OCHO) and Other Intermediates during Low-Temperature Oxidation of Dimethyl Ether. Journal of Physical Chemistry A, 2015, 119, 7361-7374.	2.5	143
52	VUV Photoionization Cross Sections of HO₂, H₂O₂, and H₂CO. Journal of Physical Chemistry A, 2015, 119, 1279-1291.	2.5	66
53	The physical chemistry of Criegee intermediates in the gas phase. International Reviews in Physical Chemistry, 2015, 34, 309-360.	2.3	221
54	Formation of fulvene in the reaction of C2H with 1,3-butadiene. International Journal of Mass Spectrometry, 2015, 378, 232-245.	1.5	16

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55	Multiplexed Photoionization Mass Spectrometry Investigation of the O(³P) + Propyne Reaction. Journal of Physical Chemistry A, 2015, 119, 7388-7403.	2.5	14
56	Multiscale Informatics for Low-Temperature Propane Oxidation: Further Complexities in Studies of Complex Reactions. Journal of Physical Chemistry A, 2015, 119, 7095-7115.	2.5	37
57	New Insights into Low-Temperature Oxidation of Propane from Synchrotron Photoionization Mass Spectrometry and Multiscale Informatics Modeling. Journal of Physical Chemistry A, 2015, 119, 7116-7129.	2.5	32
58	Synchrotron-based double imaging photoelectron/photoion coincidence spectroscopy of radicals produced in a flow tube: OH and OD. Journal of Chemical Physics, 2015, 142, 164201.	3.0	60
59	Time- and Isomer-Resolved Measurements of Sequential Addition of Acetylene to the Propargyl Radical. Journal of Physical Chemistry Letters, 2015, 6, 4153-4158.	4.6	38
60	Low temperature (550â€“700 K) oxidation pathways of cyclic ketones: dominance of HO₂-elimination channels yielding conjugated cyclic coproducts. Physical Chemistry Chemical Physics, 2015, 17, 12124-12134.	2.8	17
61	Probing the low-temperature chain-branching mechanism of n -butane autoignition chemistry via time-resolved measurements of ketohydroperoxide formation in photolytically initiated n- C 4 H 10 oxidation. Proceedings of the Combustion Institute, 2015, 35, 291-298.	3.9	48
62	Rate Coefficients of C1 and C2 Criegee Intermediate Reactions with Formic and Acetic Acid Near the Collision Limit: Direct Kinetics Measurements and Atmospheric Implications. Angewandte Chemie - International Edition, 2014, 53, 4547-4550.	13.8	219
63	Criegee intermediates in the indoor environment: new insights. Indoor Air, 2014, 24, 495-502.	4.3	13
64	A coordinated investigation of the combustion chemistry of diisopropyl ketone, a prototype for biofuels produced by endophytic fungi. Combustion and Flame, 2014, 161, 711-724.	5.2	54
65	Intermediates just want to react. Nature Chemistry, 2014, 6, 461-462.	13.6	3
66	Research frontiers in the chemistry of Criegee intermediates and tropospheric ozonolysis. Physical Chemistry Chemical Physics, 2014, 16, 1704.	2.8	244
67	Editorial: Scientific Frontiers in Chemical Kinetics. International Journal of Chemical Kinetics, 2014, 46, 577-577.	1.6	0
68	Photoionization Mass Spectrometric Measurements of Initial Reaction Pathways in Low-Temperature Oxidation of 2,5-Dimethylhexane. Journal of Physical Chemistry A, 2014, 118, 10188-10200.	2.5	19
69	Low-temperature combustion chemistry of novel biofuels: resonance-stabilized QOOH in the oxidation of diethyl ketone. Physical Chemistry Chemical Physics, 2014, 16, 13027-13040.	2.8	25
70	Synchrotron Photoionization Study of Mesitylene Oxidation Initiated by Reaction with Cl(²P) or O(³P) Radicals. Journal of Physical Chemistry A, 2014, 118, 3735-3748.	2.5	14
71	Hexapole transmission spectrum of formaldehyde oxide. Chemical Physics Letters, 2014, 598, 96-101.	2.6	8
72	Quasi-Quantum Treatment of the rotationally inelastic NO-He scattering. Journal of Physics: Conference Series, 2014, 488, 102026.	0.4	0

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73	Unconventional Peroxy Chemistry in Alcohol Oxidation: The Water Elimination Pathway. Journal of Physical Chemistry Letters, 2013, 4, 350-354.	4.6	38
74	Low-Temperature Combustion Chemistry of <i>n-</i>Butanol: Principal Oxidation Pathways of Hydroxybutyl Radicals. Journal of Physical Chemistry A, 2013, 117, 11983-12001.	2.5	40
75	Low-temperature combustion chemistry of biofuels: Pathways in the low-temperature (550â€“700K) oxidation chemistry of isobutanol and tert-butanol. Proceedings of the Combustion Institute, 2013, 34, 493-500.	3.9	46
76	Facile Rearrangement of 3-Oxoalkyl Radicals is Evident in Low-Temperature Gas-Phase Oxidation of Ketones. Journal of the American Chemical Society, 2013, 135, 14256-14265.	13.7	18
77	Direct Measurements of Conformer-Dependent Reactivity of the Criegee Intermediate CH ₃ CHOO. Science, 2013, 340, 177-180.	12.6	379
78	A general scaling rule for the collision energy dependence of a rotationally inelastic differential cross-section and its application to NO(X) + He. Physical Chemistry Chemical Physics, 2013, 15, 5620.	2.8	4
79	Directly measuring reaction kinetics of Ë™QOOH â€“ a crucial but elusive intermediate in hydrocarbon autoignition. Physical Chemistry Chemical Physics, 2013, 15, 10753.	2.8	58
80	Regional and global impacts of Criegee intermediates on atmospheric sulphuric acid concentrations and first steps of aerosol formation. Faraday Discussions, 2013, 165, 45.	3.2	103
81	Formation of dimethylketene and methacrolein by reaction of the CH radical with acetone. Physical Chemistry Chemical Physics, 2013, 15, 4049.	2.8	22
82	Synchrotron photoionization measurements of fundamental autoignition reactions: Product formation in low-temperature isobutane oxidation. Proceedings of the Combustion Institute, 2013, 34, 385-392.	3.9	8
83	Absolute photoionization cross-sections of selected furanic and lactonic potential biofuels. International Journal of Mass Spectrometry, 2013, 348, 39-46.	1.5	20
84	Product Branching Fractions of the CH + Propene Reaction from Synchrotron Photoionization Mass Spectrometry. Journal of Physical Chemistry A, 2013, 117, 6450-6457.	2.5	22
85	Isomer Specific Product Detection in the Reaction of CH with Acrolein. Journal of Physical Chemistry A, 2013, 117, 11013-11026.	2.5	13
86	Synchrotron Photoionization Mass Spectrometry Measurements of Product Formation in Low-Temperature <i>n</i>-Butane Oxidation: Toward a Fundamental Understanding of Autoignition Chemistry and <i>n</i>-C₄H₉ + O₂/<i>s</i>-C₄H₉ + O₂ Reactions. Journal of Physical Chemistry A, 2013, 117, 12216-12235.	2.5	33
87	Note: Absolute photoionization cross-section of the vinyl radical. Journal of Chemical Physics, 2013, 139, 056101.	3.0	9
88	Absolute photoionization cross-section of the propargyl radical. Journal of Chemical Physics, 2012, 136, 134307.	3.0	86
89	Direct Kinetic Measurements of Criegee Intermediate (CH ₂ OO) Formed by Reaction of CH ₂ I with O ₂. Science, 2012, 335, 204-207.	12.6	649
90	New mechanistic insights to the O(3P) + propene reaction from multiplexed photoionization mass spectrometry. Physical Chemistry Chemical Physics, 2012, 14, 10410.	2.8	51

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91	Low-temperature combustion chemistry of biofuels: pathways in the initial low-temperature (550) Tj ETQq1 1 0.784314 rgBT /Overlock	2.8	88
92	Product Detection of the CH Radical Reaction with Acetaldehyde. Journal of Physical Chemistry A, 2012, 116, 6091-6106.	2.5	29
93	Pressure-Dependent I-Atom Yield in the Reaction of CH₂I with O₂ Shows a Remarkable Apparent Third-Body Efficiency for O₂. Journal of Physical Chemistry Letters, 2012, 3, 3399-3403.	4.6	46
94	Synchrotron Photoionization Measurements of OH-Initiated Cyclohexene Oxidation: Ring-Preserving Products in OH + Cyclohexene and Hydroxycyclohexyl + O₂ Reactions. Journal of Physical Chemistry A, 2012, 116, 6720-6730.	2.5	17
95	Spectroscopy of the Simplest Criegee Intermediate CH₂OO: Simulation of the First Bands in Its Electronic and Photoelectron Spectra. Chemistry - A European Journal, 2012, 18, 12411-12423.	3.3	54
96	Direct measurement of Criegee intermediate (CH2OO) reactions with acetone, acetaldehyde, and hexafluoroacetone. Physical Chemistry Chemical Physics, 2012, 14, 10391.	2.8	143
97	Detection of pentatetraene by reaction of the ethynyl radical (C2H) with allene (CH2î€Cî€CH2) at room temperature. Physical Chemistry Chemical Physics, 2011, 13, 20820.	2.8	13
98	Branching Fractions of the CN + C₃H₆ Reaction Using Synchrotron Photoionization Mass Spectrometry: Evidence for the 3-Cyanopropene Product. Journal of Physical Chemistry A, 2011, 115, 13467-13473.	2.5	14
99	Competing Channels in the Propene + OH Reaction: Experiment and Validated Modeling over a Broad Temperature and Pressure Range. Zeitschrift Fur Physikalische Chemie, 2011, 225, 1271-1291.	2.8	14
100	New experiments and validated master-equation modeling for OH production in propyl+O2 reactions. Proceedings of the Combustion Institute, 2011, 33, 293-299.	3.9	35
101	Role of peroxy chemistry in the high-pressure ignition of n-butanol â€“ Experiments and detailed kinetic modelling. Combustion and Flame, 2011, 158, 1444-1455.	5.2	121
102	Kinetics of elementary reactions in low-temperature autoignition chemistry. Progress in Energy and Combustion Science, 2011, 37, 371-421.	31.2	586
103	Reaction of the C₂H Radical with 1-Butyne (C₄H₆): Low-Temperature Kinetics and Isomer-Specific Product Detection. Journal of Physical Chemistry A, 2010, 114, 3340-3354.	2.5	57
104	Reactions of the CN Radical with Benzene and Toluene: Product Detection and Low-Temperature Kinetics. Journal of Physical Chemistry A, 2010, 114, 1749-1755.	2.5	56
105	Isomer-Selective Study of the OH Initiated Oxidation of Isoprene in the Presence of O₂ and NO. I. The Minor Inner OH-Addition Channel. Journal of Physical Chemistry A, 2010, 114, 904-912.	2.5	22
106	Products of the Benzene + O(³P) Reaction. Journal of Physical Chemistry A, 2010, 114, 3355-3370.	2.5	92
107	Direct detection of pyridine formation by the reaction of CH (CD) with pyrrole: a ring expansion reaction. Physical Chemistry Chemical Physics, 2010, 12, 8750.	2.8	49
108	Combustion chemistry of the propanol isomers â€" investigated by electron ionization and VUV-photoionization molecular-beam mass spectrometry. Combustion and Flame, 2009, 156, 1181-1201.	5.2	91

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109	Isomer-specific product detection of CN radical reactions with ethene and propene by tunable VUV photoionization mass spectrometry. International Journal of Mass Spectrometry, 2009, 280, 113-118.	1.5	34
110	The reaction of hydroxyethyl radicals with O2: A theoretical analysis and experimental product study. Proceedings of the Combustion Institute, 2009, 32, 271-277.	3.9	90
111	Cyclic Versus Linear Isomers Produced by Reaction of the Methylidyne Radical (CH) with Small Unsaturated Hydrocarbons. Journal of the American Chemical Society, 2009, 131, 993-1005.	13.7	77
112	Temperature-Dependent Kinetics of the Vinyl Radical (C₂H₃) Self-Reaction. Journal of Physical Chemistry A, 2009, 113, 1278-1286.	2.5	27
113	Formally direct pathways and low-temperature chain branching in hydrocarbon autoignition: the cyclohexyl + O2 reaction at high pressure. Physical Chemistry Chemical Physics, 2009, 11, 1320.	2.8	76
114	Ultraviolet photodissociation of vinyl iodide: understanding the halogen dependence of photodissociation mechanisms in vinyl halides. Physical Chemistry Chemical Physics, 2008, 10, 713-728.	2.8	19
115	Direct Observation of the Gas-Phase Criegee Intermediate (CH₂OO). Journal of the American Chemical Society, 2008, 130, 11883-11885.	13.7	189
116	â€œImagingâ€•combustion chemistry via multiplexed synchrotron-photoionization mass spectrometry. Physical Chemistry Chemical Physics, 2008, 10, 20-34.	2.8	185
117	Synchrotron Photoionization Mass Spectrometry Measurements of Kinetics and Product Formation in the Allyl Radical (H2CCHCH2) Self-Reaction. Journal of Physical Chemistry A, 2008, 112, 9366-9373.	2.5	42
118	Introductory Tribute to Stephen R. Leone. Journal of Physical Chemistry A, 2008, 112, 9167-9168.	2.5	0
119	Absolute Photoionization Cross-Section of the Methyl Radical. Journal of Physical Chemistry A, 2008, 112, 9336-9343.	2.5	89
120	Enol Formation and Ring-Opening in OH-Initiated Oxidation of Cycloalkenes. Journal of Physical Chemistry A, 2008, 112, 13444-13451.	2.5	18
121	The multiplexed chemical kinetic photoionization mass spectrometer: A new approach to isomer-resolved chemical kinetics. Review of Scientific Instruments, 2008, 79, 104103.	1.3	190
122	Research needs for future internal combustion engines. Physics Today, 2008, 61, 47-52.	0.3	36
123	Tribute to James A. Miller. Journal of Physical Chemistry A, 2007, 111, 3673-3675.	2.5	0
124	Theory, measurements, and modeling of OH and HO2 formation in the reaction of cyclohexyl radicals with O2. Physical Chemistry Chemical Physics, 2007, 9, 4315.	2.8	92
125	Photoionization of 1-Alkenylperoxy and Alkylperoxy Radicals and a General Rule for the Stability of Their Cations. Journal of the American Chemical Society, 2007, 129, 14019-14025.	13.7	38
126	Pressure and Temperature Dependence of the Reaction of Vinyl Radical with Ethyleneâ€. Journal of Physical Chemistry A, 2007, 111, 6843-6851.	2.5	20

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127	Measurements and Modeling of DO2Formation in the Reactions of C2D5and C3D7Radicals with O2â€. Journal of Physical Chemistry A, 2007, 111, 4015-4030.	2.5	31
128	Measurements and Quasi-Quantum Modeling of the Steric Asymmetry and Parity Propensities in State-to-State Rotationally Inelastic Scattering of NO (2Î1/2) with D2â€. Journal of Physical Chemistry A, 2007, 111, 7631-7639.	2.5	27
129	Initial Steps of Aromatic Ring Formation in a Laminar Premixed Fuel-Rich Cyclopentene Flameâ€. Journal of Physical Chemistry A, 2007, 111, 4081-4092.	2.5	102
130	Measurements and Automated Mechanism Generation Modeling of OH Production in Photolytically Initiated Oxidation of the Neopentyl Radicalâ€–. Journal of Physical Chemistry A, 2007, 111, 3891-3900.	2.5	29
131	Atmospheric transformation of enols: A potential secondary source of carboxylic acids in the urban troposphere. Geophysical Research Letters, 2007, 34, .	4.0	55
132	Direct detection of polyynes formation from the reaction of ethynyl radical (C2H) with propyne (CH3â€"Câ€,CH) and allene (CH2î€Cî€CH2). Physical Chemistry Chemical Physics, 2007, 9, 4291-4300.	2.8	79
133	How does the molecular velocity distribution affect kinetics measurements by timeâ€resolved mass spectrometry?. International Journal of Chemical Kinetics, 2007, 39, 565-570.	1.6	28
134	The influence of ethanol addition on premixed fuel-rich propeneâ€"oxygenâ€"argon flames. Proceedings of the Combustion Institute, 2007, 31, 1119-1127.	3.9	64
135	Photoionization mass spectrometric studies and modeling of fuel-rich allene and propyne flames. Proceedings of the Combustion Institute, 2007, 31, 1157-1164.	3.9	63
136	Benzene precursors and formation routes in a stoichiometric cyclohexane flame. Proceedings of the Combustion Institute, 2007, 31, 565-573.	3.9	89
137	Combustion Chemistry of Enols:â€‰ Possible Ethenol Precursors in Flames. Journal of Physical Chemistry A, 2006, 110, 3254-3260.	2.5	96
138	Identification and Chemistry of C4H3and C4H5Isomers in Fuel-Rich Flames. Journal of Physical Chemistry A, 2006, 110, 3670-3678.	2.5	143
139	Reaction of chlorine atom with trichlorosilane from 296to473K. Journal of Chemical Physics, 2006, 125, 224308.	3.0	4
140	Ultraviolet photochemistry of trichlorovinylsilane and allyltrichlorosilane: vinyl radical (HCCH2) and allyl radical (H2CCHCH2) production in 193 nm photolysis. Physical Chemistry Chemical Physics, 2006, 8, 2240.	2.8	18
141	Uncovering the Fundamental Chemistry of Alkyl + O2Reactions via Measurements of Product Formation. Journal of Physical Chemistry A, 2006, 110, 4299-4312.	2.5	106
142	Energy-Resolved Photoionization of Alkylperoxy Radicals and the Stability of Their Cations. Journal of the American Chemical Society, 2006, 128, 13559-13567.	13.7	87
143	Quantum Interference as the Source of Steric Asymmetry and Parity Propensity Rules in NOâˆ'Rare Gas Inelastic Scattering. Journal of the American Chemical Society, 2006, 128, 8777-8789.	13.7	61
144	Analysis of flame structure by molecular-beam mass spectrometry using electron-impact and synchrotron-photon ionization. Combustion, Explosion and Shock Waves, 2006, 42, 672-677.	0.8	9

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145	Production of cold formaldehyde molecules for study and control of chemical reaction dynamics with hydroxyl radicals. Physical Review A, 2006, 73, .	2.5	106
146	Temperature dependence and deuterium kinetic isotope effects in the HCO+NO reaction. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 176, 149-154.	3.9	2
147	Photoionization cross sections for reaction intermediates in hydrocarbon combustion. International Journal of Mass Spectrometry, 2005, 247, 18-27.	1.5	289
148	Studies of a fuel-rich propane flame with photoionization mass spectrometry. Proceedings of the Combustion Institute, 2005, 30, 1681-1688.	3.9	210
149	Enols Are Common Intermediates in Hydrocarbon Oxidation. Science, 2005, 308, 1887-1889.	12.6	306
150	Synchrotron photoionization measurements of combustion intermediates: Photoionization efficiency and identification of C3H2 isomers. Physical Chemistry Chemical Physics, 2005, 7, 806.	2.8	113
151	Measurements and Modeling of HO2Formation in the Reactions ofn-C3H7andi-C3H7Radicals with O2â€. Journal of Physical Chemistry B, 2005, 109, 8374-8387.	2.6	38
152	Steric asymmetry and lambda-doublet propensities in state-to-state rotationally inelastic scattering of NO(2Î1/2) with He. Journal of Chemical Physics, 2004, 121, 11691-11701.	3.0	34
153	Synchrotron photoionization measurements of combustion intermediates: the photoionization efficiency of HONO. Chemical Physics Letters, 2004, 394, 19-24.	2.6	36
154	Kinetics of the reaction of vinyl radicals with NO: Ab initio theory, master equation predictions, and laser absorption measurements. Physical Chemistry Chemical Physics, 2004, 6, 2216-2223.	2.8	25
155	Infrared Laser Absorption Measurements of the Kinetics of Propargyl Radical Self-Reaction and the 193 nm Photolysis of Propyne. Journal of Physical Chemistry A, 2003, 107, 4843-4850.	2.5	47
156	High-resolution diode laser absorption spectroscopy of the Oâ€"H stretch overtone band (2,0,0)â†(0,0,0) of the HO2 radical. Journal of Molecular Spectroscopy, 2003, 219, 163-169.	1.2	43
157	Measurements, Theory, and Modeling of OH Formation in Ethyl + O2 and Propyl + O2 Reactions. Journal of Physical Chemistry A, 2003, 107, 4415-4427.	2.5	160
158	Product Formation in the Cl-Initiated Oxidation of Cyclopropane. Journal of Physical Chemistry A, 2003, 107, 1992-2002.	2.5	20
159	Kinetics of Elementary Reactions in the Chain Chlorination of Cyclopropane. Journal of Physical Chemistry A, 2003, 107, 2003-2010.	2.5	13
160	Time-resolved measurements of OH and HO2 product formation in pulsed-photolytic chlorine atom initiated oxidation of neopentane. Physical Chemistry Chemical Physics, 2003, 5, 1584-1592.	2.8	32
161	Vinyl radical visible spectroscopy and excited state dynamics. Journal of Chemical Physics, 2002, 116, 8343.	3.0	27
162	Infrared laser absorption measurements of HCl(v=1) production in reactions of Cl atoms with isobutane, methanol, acetaldehyde, and toluene at 295 K. Chemical Physics Letters, 2002, 366, 417-425.	2.6	32

#	Article	IF	Citations
163	RECENTPROGRESS ININFRAREDABSORPTIONTECHNIQUES FORELEMENTARYGAS-PHASEREACTIONKINETICS. Annual Review of Physical Chemistry, 2001, 52, 41-70.	10.8	37
164	Infrared frequency-modulation probing of product formation in alkyl + O2 reactions. Part IV.For Part III see ref. 12. Reactions of propyl and butyl radicals with O2Electronic Supplementary Information available. See http://www.rsc.org/suppdata/fd/b1/b102237g/. Faraday Discussions, 2001, 119, 101-120.	3.2	86
165	Kinetic Isotope Effects and Variable Reaction Coordinates in Barrierless Recombination Reactions. Journal of Physical Chemistry A, 2001, 105, 8567-8578.	2.5	24
166	Infrared Frequency-Modulation Probing of Product Formation in Alkyl + O2Reactions:Â III. The Reaction of Cyclopentyl Radical (c-C5H9) with O2between 296 and 723 K. Journal of Physical Chemistry A, 2001, 105, 6646-6654.	2.5	27
167	Temperature Dependence and Deuterium Kinetic Isotope Effects in the CH (CD) + C2H4(C2D4) Reaction between 295 and 726 K. Journal of Physical Chemistry A, 2001, 105, 5393-5401.	2.5	28
168	Infrared Frequency-Modulation Probing of Product Formation in Alkyl + O2Reactions:Â II. The Reaction of C3H7with O2between 296 and 683 K. Journal of Physical Chemistry A, 2001, 105, 3205-3213.	2.5	53
169	Efficient and stable operation of an Ar+-pumped continuous-wave ring laser from 505â€“560 nm using a coumarin laser dye. Review of Scientific Instruments, 2001, 72, 2837-2838.	1.3	18
170	Temperature dependence and deuterium kinetic isotope effects in the HCO(DCO)+O2 reaction between 296 and 673 K. Chemical Physics Letters, 2001, 347, 79-86.	2.6	27
171	Infrared Frequency-Modulation Probing of Product Formation in Alkyl + O2 Reactions:â€‰ I. The Reaction of C2H5 with O2 between 295 and 698 K. Journal of Physical Chemistry A, 2000, 104, 11549-11560.	2.5	73
172	The vinyl radical (Ãƒ2Aâ€³â†X̃ƒ2Aâ€²) spectrum between 530 and 415 nm measured by cavity ring-down spectroscopy. Journal of Chemical Physics, 1999, 110, 1841-1843.	3.0	45
173	Time-resolved infrared absorption measurements of product formation in Cl atom reactions with alkenes and alkynes. International Reviews in Physical Chemistry, 1999, 18, 419-458.	2.3	50
174	Infrared frequency-modulation measurements of absolute rate coefficients for Cl+HDâ†’HCl(DCl)+D(H) between 295 and 700 K. Chemical Physics Letters, 1999, 306, 33-40.	2.6	26
175	Absolute and Site-Specific Abstraction Rate Coefficients for Reactions of Cl with CH3CH2OH, CH3CD2OH, and CD3CH2OH between 295 and 600 K. Journal of Physical Chemistry A, 1999, 103, 9805-9814.	2.5	54
176	Infrared Frequency-Modulation Probing of Cl + C3H4(Allene, Propyne) Reactions:Â Kinetics of HCl Production from 292 to 850 K. Journal of Physical Chemistry A, 1998, 102, 4846-4856.	2.5	30
177	Association and isotopic exchange reactions of CH(CD)[Xâ€‰2Î]+CO. Journal of Chemical Physics, 1997, 106, 1786-1795.	3.0	16
178	Temperature controlled multiple pass absorption cell for gas phase chemical kinetics studies. Review of Scientific Instruments, 1997, 68, 1875-1878.	1.3	52
179	Deuterium Kinetic Isotope Effect and Temperature Dependence in the Reactions of CH[2Î] with Methane and Acetylene. Journal of Physical Chemistry A, 1997, 101, 1881-1886.	2.5	42
180	Kinetics of Cl Atom Reactions with Methane, Ethane, and Propane from 292 to 800 K. Journal of Physical Chemistry A, 1997, 101, 1873-1880.	2.5	102

#	Article	IF	Citations
181	Infrared Absorption Probing of the Cl + C3H6 Reaction:â€‰ Rate Coefficients for HCl Production between 290 and 800 K. Journal of Physical Chemistry A, 1997, 101, 5776-5782.	2.5	46
182	Infrared Absorption Probing of the Cl + C2H4 Reaction:â€‰ Direct Measurement of Arrhenius Parameters for Hydrogen Abstraction. Journal of Physical Chemistry A, 1997, 101, 4172-4177.	2.5	37
183	Time-resolved wavelength modulation spectroscopy measurements of HO_2 kinetics. Applied Optics, 1997, 36, 5817.	2.1	39
184	Temperature dependence of the reaction C2H (C2D) + O2 between 295 and 700 K. Chemical Physics Letters, 1997, 270, 580-586.	2.6	22
185	Two-tone frequency modulation spectroscopy from laser light scattered off a hard target. Applied Optics, 1996, 35, 4735.	2.1	4
186	Kinetic Isotope Effect in the CH[2Î] + O2Reaction. The Journal of Physical Chemistry, 1996, 100, 17840-17845.	2.9	21
187	â€˜â€˜Dynamicalâ€™â€™ versus â€˜â€˜statisticalâ€™â€™ rotational distributions in hyperthermal NOâ€"Pt(111) scattering. Journal of Chemical Physics, 1995, 102, 3848-3859.	3.0	11
188	Two-Dimensional Imaging of the Photolysis of Oriented Molecules. The Journal of Physical Chemistry, 1995, 99, 4360-4363.	2.9	33
189	Rotational excitation in scattering of hyperthermal NO from Pt(111). Journal of Chemical Physics, 1995, 102, 3835-3847.	3.0	26
190	Dynamical information in angular distributions of fragments from photolysis of oriented molecules. Chemical Physics Letters, 1993, 203, 363-370.	2.6	22
191	Double-resonance measurements of vibrational levels populated by infrared multiphoton excitation of CF3I in a molecular beam. Chemical Physics Letters, 1993, 215, 461-469.	2.6	6
192	Survival mechanism for rotational rainbows in highly attractive molecule-surface systems: NO scattering from Pt(111). Chemical Physics Letters, 1993, 216, 93-99.	2.6	15
193	Vibrational and rotational effects on fragmentation of CF3I via (2+1) resonance-enhanced multiphoton ionization. Chemical Physics Letters, 1993, 216, 100-107.	2.6	10
194	Polarizationâ€resolved (2+1) resonanceâ€enhanced multiphoton ionization spectroscopy of CF3I (6s) Rydberg states. Journal of Chemical Physics, 1993, 98, 4355-4371.	3.0	29
195	Probing of alignment and orientation using electric-dipole-forbidden transitions. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1551.	1.7	3
196	Rotational rainbows in NO scattering from Pt(111). Faraday Discussions, 1993, 96, 297.	3.2	19
197	Laser double-resonance studies of low-temperature rotational and vibrational relaxation of hydrogen fluoride: rates for hydrogen fluoride (J = 13) + hydrogen fluoride from 225 to 298 K and detection of hydrogen fluoride (v = 1) deactivation by hydrogen fluoride clusters at 210-240 K. The Journal of Physical Chemistry, 1991, 95, 5870-5877.	2.9	11
198	Laser double resonance measurements of the quenching rates of Br (2P12) with H2O, D2O, HDO, and O2. Chemical Physics Letters, 1991, 182, 39-44.	2.6	4

#	Article	IF	Citations
199	Diode laser probe of I(asterisk) 2P(1/2) - Doppler measurements of velocity distributions. , 1991, , .		0
200	A general method for Doppler determination of cylindrically symmetric velocity distributions: An application of Fourier transform Doppler spectroscopy. Journal of Chemical Physics, 1990, 93, 6554-6559.	3.0	44
201	Diode laser probing of I*(2P1/2) Doppler profiles: Time evolution of a fast, anisotropic velocity distribution in a thermal bath. Journal of Chemical Physics, 1990, 93, 6543-6553.	3.0	54
202	Laser doubleâ€resonance mesurements of rotational relaxation rates of HF(â€‰J=13) with rare gases, H2, and D2. Journal of Chemical Physics, 1988, 89, 302-308.	3.0	33
203	Mode-selective broadening in low-frequency vibrational modes of trans-stilbene van der waals complexes. Chemical Physics Letters, 1986, 128, 127-132.	2.6	10
204	Insertion products in the reaction of carbonyl oxide Criegee intermediates with acids: Chloro(hydroperoxy)methane formation from reaction of CH2OO with HCl and DCl. Molecular Physics, 0, , .	1.7	3
205	Experimental observation of hydrocarbon growth by resonance stabilized radicalâ€radical chain reaction. Angewandte Chemie, 0, , .	2.0	2