

Jingsong Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

954

citations

20

h-index

27

g-index

70

ext. papers

1,060

ext. citations

3.8

avg, IF

4.12

L-index

#	Paper	IF	Citations
66	Photodissociation Dynamics of Vinyloxy Radical via the B A ² State: The H + CHCO Product Channel. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 8882-8890	2.8	1
65	Rotational Modulation of π -State Photodissociation of HCO via Renner-Teller Nonadiabatic Transitions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6582-6588	6.4	1
64	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
63	State-to-state predissociation dynamics of hydroxyl radical via the A ₂ ⁺ state. <i>Molecular Physics</i> , 2021 , 119, e1837974	1.7	2
62	Thermal decomposition of cyclohexane by flash pyrolysis vacuum ultraviolet photoionization time-of-flight mass spectrometry: a study on the initial unimolecular decomposition mechanism. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9804-9813	3.6	3
61	Thermal decomposition mechanism of allyltrichlorosilane and allyltrimethylsilane. <i>International Journal of Mass Spectrometry</i> , 2021 , 460, 116476	1.9	2
60	Ultraviolet photodissociation dynamics of the n-butyl, s-butyl, and t-butyl radicals. <i>Journal of Chemical Physics</i> , 2020 , 152, 244303	3.9	2
59	Two-photon dissociation dynamics of hydroxyl radical. <i>Chinese Journal of Chemical Physics</i> , 2020 , 33, 129-134	0.9	2
58	Photoinduced C-H bond fission in prototypical organic molecules and radicals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13880-13901	3.6	11
57	Atmospheric observation-based estimation of fossil fuel CO emissions from regions of central and southern California. <i>Science of the Total Environment</i> , 2019 , 664, 381-391	10.2	7
56	H-Atom Product Channel in the Ultraviolet Photodissociation of the Thiomethoxy Radical (CHS) via the B A State. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5849-5858	2.8	1
55	H atom Product Channels in the Ultraviolet Photodissociation of the 2-Propenyl Radical. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9957-9965	2.8	5
54	Mechanistic Study of Thermal Decomposition of Hexamethyldisilane by Flash Pyrolysis Vacuum Ultraviolet Photoionization Time-of-Flight Mass Spectrometry and Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10520-10528	2.8	4
53	Dynamical interference in the vibronic bond breaking reaction of HCO. <i>Science Advances</i> , 2019 , 5, eaau05823	5.823	7
52	Inverse Estimation of an Annual Cycle of California's Nitrous Oxide Emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4758-4771	4.4	5
51	Ultraviolet photodissociation dynamics of 1-pentyl radical. <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 439-445	0.9	5
50	A Special Issue to Celebrate. <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 367-367	0.9	

49	Product yields of stabilized Criegee intermediates in the ozonolysis reactions of cis-2-butene, 2-methyl-2-butene, cyclopentene, and cyclohexene. <i>Science China Chemistry</i> , 2018 , 61, 850-856	7.9	4
48	Mechanism of the thermal decomposition of tetramethylsilane: a flash pyrolysis vacuum ultraviolet photoionization time-of-flight mass spectrometry and density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18782-18789	3.6	9
47	Low-pressure yields of stabilized Criegee intermediates CH ₃ CHOO and (CH ₃) ₂ COO in ozonolysis of trans-2-butene and 2,3-dimethyl-2-butene. <i>Chemical Physics Letters</i> , 2017 , 683, 647-652	2.5	8
46	Flash Pyrolysis of t-Butyl Hydroperoxide and Di-t-butyl Peroxide: Evidence of Roaming in the Decomposition of Organic Hydroperoxides. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7846-7853	2.8	7
45	Assessment of an atmospheric transport model for annual inverse estimates of California greenhouse gas emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1901-1918	4.4	17
44	Ultraviolet Photodissociation Dynamics of the 1-Propenyl Radical. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 5248-56	2.8	8
43	Estimating methane emissions in California's urban and rural regions using multitower observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,031-13,049	4.4	32
42	Ultraviolet photodissociation dynamics of the n-propyl and i-propyl radicals. <i>Journal of Chemical Physics</i> , 2015 , 142, 224306	3.9	12
41	Vacuum ultraviolet photodissociation dynamics of methanol at 121.6 nm. <i>Chemical Physics Letters</i> , 2015 , 619, 18-22	2.5	11
40	Ultraviolet Photodissociation Dynamics of the Allyl Radical via the B (2)A ₁ (3s), C (2)B ₂ (3py), and E(2)B ₁ (3px) Electronic Excited States. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12318-28	2.8	12
39	Thermal decomposition of tetramethylsilane and tetramethylgermane by flash pyrolysis vacuum ultraviolet photoionization time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2014 , 373, 50-55	1.9	8
38	Atmospheric peroxy radical measurements using dual-channel chemical amplification cavity ringdown spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 5391-8	7.8	12
37	Thermal decomposition of methyltrichlorosilane, dimethyldichlorosilane and methyldichlorosilane by flash pyrolysis vacuum ultraviolet photoionization time-of-flight mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2014 , 20, 409-17	1.1	5
36	H-atom Dissociation Channels in Ultraviolet Photochemistry of m-Pyridyl Radical. <i>Chinese Journal of Chemical Physics</i> , 2014 , 27, 621-627	0.9	2
35	Measurement of aerosol optical extinction using diode laser cavity ringdown spectroscopy. <i>Science Bulletin</i> , 2013 , 58, 2440-2446		1
34	Ultraviolet photodissociation dynamics of the o-pyridyl radical. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12138-45	2.8	9
33	Ultraviolet photodissociation dynamics of the phenyl radical. <i>Journal of Chemical Physics</i> , 2012 , 136, 044308	3.08	7
32	Detection of sulfur dioxide by cavity ring-down spectroscopy. <i>Environmental Science & Technology</i> , 2011 , 45, 1926-31	10.3	9

31	Ultraviolet photodissociation dynamics of the benzyl radical. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 8296-305	3.6	24
30	A multiphoton ionization study of acetone using time-of-flight mass spectrometry. <i>Science Bulletin</i> , 2010 , 55, 3123-3130		3
29	Ultraviolet photodissociation dynamics of the propargyl radical. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4604-12	2.8	9
28	Measurements of peroxy radicals using chemical amplification-cavity ringdown spectroscopy. <i>Environmental Science & Technology</i> , 2009 , 43, 7791-6	10.3	20
27	Flash pyrolysis of ethyl, n-propyl, and isopropyl iodides as monitored by supersonic expansion vacuum ultraviolet photoionization time-of-flight mass spectrometry. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 583-91	2.8	19
26	Ultraviolet photodissociation of the SD radical in vibrationally ground and excited states. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 4761-9	3.6	5
25	Mixed silicon-germanium clusters, SixGe ₄ H ₄ , in the gas phase by flash pyrolysis of silane and germane. <i>Chemical Physics Letters</i> , 2008 , 459, 49-53	2.5	8
24	H-atom product channel and mode specificity in the near-UV photodissociation of thiomethoxy radical via the \tilde{A}^1 state. <i>Chemical Physics Letters</i> , 2008 , 467, 46-51	2.5	8
23	Mechanistic study of thermal decomposition of isoprene (2-methyl-1,3-butadiene) using flash pyrolysis supersonic jet VUV photoionization mass spectrometry. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 11487-92	2.8	10
22	Cavity ring-down spectroscopy of ambient NO ₂ with quantification and elimination of interferences. <i>Environmental Science & Technology</i> , 2006 , 40, 7868-73	10.3	23
21	Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118nm photoionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2006 , 249-250, 303-310	1.9	6
20	Mechanistic studies of the pyrolysis of 1,3-butadiene, 1,3-butadiene-1,1,4,4-d ₄ , 1,2-butadiene, and 2-butyne by supersonic jet/photoionization mass spectrometry. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 2190-6	2.8	39
19	Ultraviolet photodissociation dynamics of the SH radical. <i>Journal of Chemical Physics</i> , 2005 , 123, 054330	3.9	31
18	Theoretical Study on the Thermochemistry of Chlorinated and Fluorinated Germanes and Their Radical Fragments. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10346-10353	2.8	20
17	PHOTODISSOCIATION DYNAMICS OF FREE RADICALS. <i>Advanced Series in Physical Chemistry</i> , 2004 , 465-521		3
16	State-to-state photodissociation dynamics of OH radical via the \tilde{A}^2 state: Fine-structure distributions of the O(3P _J) product. <i>Journal of Chemical Physics</i> , 2003 , 119, 9989-9992	3.9	27
15	Photodissociation dynamics of 1-propanol and 2-propanol at 193.3 nm. <i>Journal of Chemical Physics</i> , 2003 , 119, 7179-7187	3.9	16
14	GeH _x (x=0-3) and Ge _n H _x (n=2-7) in flash pyrolysis of GeH ₄ . <i>Chemical Physics Letters</i> , 2002 , 351, 171-177	2.5	19

13	Ab initio study of reaction of dimethyl sulfoxide (DMSO) with OH radical. <i>Chemical Physics Letters</i> , 2002 , 356, 490-496	2.5	35
12	Highly Unsaturated Hydrogenated Silicon Clusters, Si_nH_x ($n=3-10, x=0-8$), in Flash Pyrolysis of Silane and Disilane. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 5081-5087	2.8	20
11	VUV photoionization time-of-flight mass spectrometry of flash pyrolysis of silane and disilane. <i>Chemical Physics Letters</i> , 2001 , 343, 482-488	2.5	22
10	Addition complexes of dimethyl sulfide (DMS) and OH radical and their reactions with O_2 by ab initio and density functional theory. <i>Computational and Theoretical Chemistry</i> , 2001 , 543, 167-175		32
9	UV photodissociation dynamics of ethyl radical via the $\sigma^*_{\text{C-C}}$ state. <i>Journal of Chemical Physics</i> , 2001 , 114, 5164-5169	3.9	53
8	H + NO ₂ Channels in the Photodissociation of HONO at 193.3 nm. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1465-1475	2.8	16
7	H-Atom Product Channels in the Photodissociation of CH ₃ Cl, CH ₃ Br, and CH ₃ I at 121.6 nm. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1115-1120	2.8	21
6	Photoionization of methyl t-butyl ether (MTBE) and t-octyl methyl ether (TOME) and analysis of their pyrolyses by supersonic jet/photoionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2000 , 199, 17-27	1.9	27
5	Detection of Nitrous Acid by Cavity Ring-Down Spectroscopy. <i>Environmental Science & Technology</i> , 2000 , 34, 4221-4227	10.3	52
4	Photodissociation dynamics of ethanol at 193.3 nm: The H-atom channel and ethoxy vibrational distribution. <i>Journal of Chemical Physics</i> , 1999 , 111, 6271-6282	3.9	42
3	Photodissociation of the vinyl radical (C ₂ H ₃) via the first excited state: The C ₂ H ₂ ($\Sigma^+_{g,1}$)+H channel. <i>Journal of Chemical Physics</i> , 1999 , 111, 3783-3786	3.9	20
2	Crossed Molecular Beam Study of the Reaction Cl + O ₃ . <i>Journal of Physical Chemistry A</i> , 1997 , 101, 6485-6495	6.4	21
1	HNCO + h.nu.(193.3 nm). H + NCO: Center-of-Mass Translational Energy Distribution, Reaction Dynamics, and D ₀ (H-NCO). <i>The Journal of Physical Chemistry</i> , 1995 , 99, 7446-7452		69