

Jinian Shu

List of Publications by Year in descending order

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86
papers

1,497
citations

331670

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414414

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86
all docs

86
docs citations

86
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitration of particle-associated PAHs and their derivatives (nitro-, oxy-, and hydroxy-PAHs) with NO ₃ radicals. <i>Atmospheric Environment</i> , 2011, 45, 2515-2521.	4.1	71
2	Vacuum Ultraviolet Photoionization of C ₃ . <i>Journal of the American Chemical Society</i> , 2006, 128, 220-226.	13.7	55
3	Photodissociation of Bromoform at 248 nm: Single and Multiphoton Processes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1482-1488.	2.5	53
4	Coupling a versatile aerosol apparatus to a synchrotron: Vacuum ultraviolet light scattering, photoelectron imaging, and fragment free mass spectrometry. <i>Review of Scientific Instruments</i> , 2006, 77, 043106.	1.3	52
5	Heterogeneous Reactions of Particulate Methoxyphenols with NO ₃ Radicals: Kinetics, Products, and Mechanisms. <i>Environmental Science & Technology</i> , 2012, 46, 13262-13269.	10.0	52
6	A VUV Photoionization Aerosol Time-of-Flight Mass Spectrometer with a RF-Powered VUV Lamp for Laboratory-Based Organic Aerosol Measurements. <i>Aerosol Science and Technology</i> , 2008, 42, 110-113.	3.1	46
7	Experimental and theoretical studies on gas-phase reactions of NO ₃ radicals with three methoxyphenols: Guaiacol, creosol, and syringol. <i>Atmospheric Environment</i> , 2016, 125, 243-251.	4.1	45
8	Kinetic Studies of Heterogeneous Reactions of Polycyclic Aromatic Hydrocarbon Aerosols with NO ₃ Radicals. <i>Environmental Science & Technology</i> , 2012, 46, 7575-7580.	10.0	43
9	Dissociation of the ground state vinoxy radical and its photolytic precursor chloroacetaldehyde: Electronic nonadiabaticity and the suppression of the H+ketene channel. <i>Journal of Chemical Physics</i> , 2004, 121, 1830-1838.	3.0	39
10	Photodissociation dynamics of cyclopropane at 157 nm. <i>Journal of Chemical Physics</i> , 2002, 117, 153-160.	3.0	37
11	Dinitrobenzene detection by use of one-color laser photolysis and laser-induced fluorescence of vibrationally excited NO. <i>Applied Optics</i> , 1999, 38, 4705.	2.1	34
12	Online investigations on ozonation products of pyrene and benz[a]anthracene particles with a vacuum ultraviolet photoionization aerosol time-of-flight mass spectrometer. <i>Atmospheric Environment</i> , 2009, 43, 3319-3325.	4.1	32
13	Vacuum-Ultraviolet-Excited and CH ₂ Cl ₂ /H ₂ O-Amplified Ionization-Coupled Mass Spectrometry for Oxygenated Organics Analysis. <i>Analytical Chemistry</i> , 2018, 90, 1301-1308.	6.5	31
14	Homogeneous and heterogeneous reactions of phenanthrene with ozone. <i>Atmospheric Environment</i> , 2010, 44, 697-702.	4.1	30
15	Elastic light scattering from nanoparticles by monochromatic vacuum-ultraviolet radiation. <i>Journal of Chemical Physics</i> , 2006, 124, 034707.	3.0	29
16	Heterogeneous ozonation of suspended malathion and chlorpyrifos particles. <i>Chemosphere</i> , 2010, 79, 394-400.	8.2	27
17	Multiple pathway dynamics of the O(1D)+C ₂ H ₆ reaction: A crossed beam study. <i>Journal of Chemical Physics</i> , 2001, 115, 849-857.	3.0	25
18	Gas-Phase Reactions of Methoxyphenols with NO ₃ Radicals: Kinetics, Products, and Mechanisms. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1213-1221.	2.5	25

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19	A Crossed Molecular Beam Study of the O(1D) + C ₃ H ₈ Reaction: Multiple Reaction Pathways. <i>Journal of the American Chemical Society</i> , 2001, 123, 322-330.	13.7	24
20	Crossed beams study of the reaction 1CH ₂ +C ₂ H ₂ →C ₃ H ₃ +H. <i>Journal of Chemical Physics</i> , 2004, 121, 6254-6257.	3.0	24
21	Heterogeneous Reactivity of Suspended Pirimiphos-Methyl Particles with Ozone. <i>Environmental Science & Technology</i> , 2010, 44, 3311-3316.	10.0	24
22	Characterization of secondary organic aerosol from photo-oxidation of gasoline exhaust and specific sources of major components. <i>Environmental Pollution</i> , 2018, 232, 65-72.	7.5	22
23	A complete look at a multiple pathway reaction: The reaction of O(¹ D) with ethane. <i>Journal of Chemical Physics</i> , 2001, 114, 4.	3.0	21
24	Protonation enhancement by dichloromethane doping in low-pressure photoionization. <i>Scientific Reports</i> , 2016, 6, 36820.	3.3	21
25	Doping-assisted low-pressure photoionization mass spectrometry for the real-time detection of lung cancer-related volatile organic compounds. <i>Talanta</i> , 2017, 165, 98-106.	5.5	20
26	Comparison of secondary organic aerosol (SOA) formation during o-, m-, and p-xylene photooxidation. <i>Environmental Pollution</i> , 2019, 245, 20-28.	7.5	20
27	A comparison between the vacuum ultraviolet photoionization time-of-flight mass spectra and the GC/MS total ion chromatograms of polycyclic aromatic hydrocarbons contained in coal soot and multi-component PAH particles. <i>International Journal of Mass Spectrometry</i> , 2008, 274, 64-69.	1.5	18
28	Real-time analysis of soot emissions from bituminous coal pyrolysis and combustion with a vacuum ultraviolet photoionization aerosol time-of-flight mass spectrometer. <i>Science of the Total Environment</i> , 2009, 407, 1193-1199.	8.0	18
29	Rapid lipid profiling of bacteria by online MALDI-TOF mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2012, 321-322, 71-76.	1.5	18
30	Formation mechanism of secondary organic aerosol from ozonolysis of gasoline vehicle exhaust. <i>Environmental Pollution</i> , 2018, 234, 960-968.	7.5	18
31	Dissociation rates of benzene at VUV excitation. <i>Journal of Chemical Physics</i> , 2001, 115, 9623-9626.	3.0	17
32	Experimental studies on the heterogeneous reaction of NO ₃ radicals with suspended carbaryl particles. <i>Atmospheric Environment</i> , 2011, 45, 2074-2079.	4.1	17
33	Characterization of pollen by MALDI-TOF lipid profiling. <i>International Journal of Mass Spectrometry</i> , 2013, 334, 13-18.	1.5	17
34	Effects of Humidity and [NO ₃]/[N ₂ O ₅] Ratio on the Heterogeneous Reaction of Fluoranthene and Pyrene with N ₂ O ₅ /NO ₃ /NO ₂ . <i>Environmental Science & Technology</i> , 2014, 48, 13130-13137.	10.0	17
35	Detection of sub-pptv benzene, toluene, and ethylbenzene via low-pressure photoionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2017, 964, 134-141.	5.4	17
36	Heterogeneous reactions of suspended parathion, malathion, and fenthion particles with NO ₃ radicals. <i>Chemosphere</i> , 2012, 87, 470-476.	8.2	15

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37	A rapid detection method for policy-sensitive amines real-time supervision. <i>Talanta</i> , 2018, 178, 636-643.	5.5	15
38	Competing Pathways in the 248 nm Photodissociation of Propionyl Chloride and the Barrier to Dissociation of the Propionyl Radical. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7889-7894.	2.5	14
39	Dissociation Channels of the 1-Buten-2-yl Radical and Its Photolytic Precursor 2-Bromo-1-butene. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4038-4048.	2.5	14
40	Light Scattering of Ultrafine Silica Particles by VUV Synchrotron Radiation. <i>Nano Letters</i> , 2005, 5, 1009-1015.	9.1	14
41	Lipid fingerprinting of <i>Bacillus</i> spp. using online MALDI-TOF mass spectrometry. <i>Analytical Methods</i> , 2012, 4, 3111.	2.7	14
42	Heterogeneous Reactions of Pirimiphos-Methyl and Pirimicarb with NO ₃ Radicals. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10802-10809.	2.5	14
43	O(1D) reaction with cyclopropane: Evidence of O atom insertion into the C-C bond. <i>Journal of Chemical Physics</i> , 2001, 115, 7-10.	3.0	13
44	Products and Kinetics of the Heterogeneous Reaction of Suspended Vinclozolin Particles with Ozone. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12231-12236.	2.5	13
45	Ultrasensitive detection of explosives and chemical warfare agents by low-pressure photoionization mass spectrometry. <i>Talanta</i> , 2016, 156-157, 191-195.	5.5	13
46	Rapid detection of taste and odor compounds in water using the newly invented chemi-ionization technique coupled with time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 1035, 119-128.	5.4	13
47	Kinetic Understanding of the Ultrahigh Ionization Efficiencies (up to 28%) of Excited-State CH ₂ Cl ₂ -Induced Associative Ionization: A Case Study with Nitro Compounds. <i>Analytical Chemistry</i> , 2019, 91, 5605-5612.	6.5	13
48	Ultrasensitive detection of trace chemical warfare agent-related compounds by thermal desorption associative ionization time-of-flight mass spectrometry. <i>Talanta</i> , 2021, 235, 122788.	5.5	13
49	Homogeneous and heterogeneous reactions of anthracene with selected atmospheric oxidants. <i>Journal of Environmental Sciences</i> , 2013, 25, 1817-1823.	6.1	12
50	Multiple channel dynamics of the O+CH ₃ F reaction. <i>Journal of Chemical Physics</i> , 2000, 113, 9678-9685.	3.0	11
51	Vacuum Ultraviolet Photoionization Mass Spectra of Typical Organics Contained in Ambient Aerosols. <i>Spectroscopy Letters</i> , 2013, 46, 227-234.	1.0	11
52	Ultrasensitive detection of volatile aldehydes with chemi-ionization-coupled time-of-flight mass spectrometry. <i>Talanta</i> , 2019, 194, 888-894.	5.5	11
53	Ozonation of trifluralin particles: An experimental investigation with a vacuum ultraviolet photoionization aerosol time-of-flight mass spectrometer. <i>Journal of Hazardous Materials</i> , 2009, 172, 390-394.	12.4	10
54	Heterogeneous Reaction of Suspended Phosmet Particles with NO ₃ Radicals. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10744-10748.	2.5	10

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55	Heterogeneous ozonolysis of pirimicarb and isopropanol: mechanism of ozone-induced N-dealkylation and carbonylation reactions. <i>Environmental Chemistry</i> , 2012, 9, 521.	1.5	10
56	Heterogeneous reactions of particulate benzo[b]fluoranthene and benzo[k]fluoranthene with NO ₃ radicals. <i>Chemosphere</i> , 2014, 99, 34-40.	8.2	10
57	Real-time ultrasensitive VUV-PIMS detection of representative endogenous volatile markers in cancers. <i>Cancer Biomarkers</i> , 2016, 16, 477-487.	1.7	10
58	Experimental and theoretical investigations of the O(¹ D) reaction with cyclopropane. <i>Journal of Chemical Physics</i> , 2002, 116, 8292.	3.0	9
59	Online MALDI-TOF MS Using an Aerodynamic Lens Assembly as a Direct Deposition Interface. <i>Analytical Chemistry</i> , 2010, 82, 5906-5909.	6.5	9
60	Application of VUV-PIMS coupled with GC-MS in chemical characterization, identification and comparative analysis of organic components in both vehicular-derived SOA and haze particles. <i>Atmospheric Environment</i> , 2017, 164, 250-258.	4.1	9
61	VUV photoionization of (CH ₃) _n (n=1-4) molecules. <i>Chemical Physics Letters</i> , 2001, 345, 57-64.	2.6	8
62	Dissociation Channels of the 1-Propenyl Radical and Its Photolytic Precursor cis-1-Bromopropene. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10965-10967.	2.5	8
63	Tunable Synchrotron Vacuum Ultraviolet Ionization, Time-of-Flight Investigation of the Photodissociation of trans-Crotonaldehyde at 193 nm. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7895-7902.	2.5	8
64	A Study of the Unimolecular Dissociation of the 2-Buten-2-yl Radical via the 193 nm Photodissociation of 2-Chloro-2-butene. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6430-6439.	2.5	8
65	A crossed molecular beam study on the dynamics of F atom reaction with SiH ₄ . <i>Journal of Chemical Physics</i> , 2006, 125, 133103.	3.0	8
66	Crossed molecular beam studies of the O(¹ D)+NH ₃ reaction. <i>Journal of Chemical Physics</i> , 2001, 115, 842-848.	3.0	7
67	The three-body dissociation dynamics of Cl ₂ O at 248 and 193nm. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 56-60.	3.9	7
68	Kinetic and product study of the heterogeneous reactions of NO ₃ radicals with suspended resmethrin, phenothrin, and fenvalerate particles. <i>Chemosphere</i> , 2013, 90, 848-855.	8.2	7
69	Theoretical study on the atmospheric transformation mechanism of pirimiphos-methyl initiated by O ₃ . <i>Chemosphere</i> , 2015, 138, 966-972.	8.2	7
70	Emerging non-invasive detection methodologies for lung cancer (Review). <i>Oncology Letters</i> , 2020, 19, 3389-3399.	1.8	7
71	Exploring breath biomarkers in BLM-induced pulmonary fibrosis mice with associative ionization time-of-flight mass spectrometry. <i>Talanta</i> , 2022, 239, 123120.	5.5	7
72	Theoretical study on atmospheric reactions of fluoranthene and pyrene with N ₂ O ₅ /NO ₃ /NO ₂ . <i>Chemical Physics Letters</i> , 2015, 635, 146-151.	2.6	6

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73	Characterization of crucial fragments during the nucleation and growth of secondary organic aerosol from the high-NO photo-oxidation of α -pinene. <i>Atmospheric Environment</i> , 2019, 213, 47-54.	4.1	6
74	Heterogeneous reaction of particle-associated triphenylene with NO ₃ radicals. <i>Atmospheric Environment</i> , 2013, 68, 114-119.	4.1	5
75	Heterogeneous reaction of particulate chlorpyrifos with NO ₃ radicals: Products, pathways, and kinetics. <i>Chemical Physics Letters</i> , 2014, 610-611, 70-75.	2.6	5
76	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16484-16492.	2.8	5
77	Experimental studies on ozonation of ethylenethiourea. <i>Journal of Environmental Sciences</i> , 2011, 23, 65-69.	6.1	4
78	Differentiation of basidiospores by MALDI-TOF lipid profiling. <i>International Journal of Mass Spectrometry</i> , 2013, 352, 44-50.	1.5	4
79	Characterization of trace aerosol compositions produced during the OH radical-initiated photooxidation of β -pinene. <i>Atmospheric Environment</i> , 2019, 211, 1-5.	4.1	4
80	An ultrasensitive SPI/PAI ion source based on a high-flux VUV lamp and its applications for the online mass spectrometric detection of sub-pptv sulfur ethers. <i>Talanta</i> , 2022, 247, 123558.	5.5	4
81	Products and mechanisms of the heterogeneous reaction of three suspended herbicide particles with NO ₃ radicals. <i>Science of the Total Environment</i> , 2015, 514, 185-191.	8.0	3
82	Effect of the blocked-sites phenomenon on the heterogeneous reaction of pyrene with N ₂ O ₅ /NO ₃ /NO ₂ . <i>RSC Advances</i> , 2016, 6, 10358-10364.	3.6	3
83	Evaluating the relationship between cell viability and volatile organic compound production following DMSO treatment of cultured human cells. <i>Die Pharmazie</i> , 2016, 71, 727-732.	0.5	3
84	Analysis of phytosterol by MALDI-TOF mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 4754.	2.7	2
85	Photoinduced Associative Ionization Time-of-Flight Mass Spectrometry for the Sensitive Determination of Monoterpenes. <i>Analytical Letters</i> , 2022, 55, 2170-2184.	1.8	2
86	Online Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry with <i>In situ</i> Mixing. <i>Analytical Letters</i> , 2015, 48, 2553-2565.	1.8	0