

Sergey A Nizkorodov

List of Publications by Year in descending order

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173
papers

10,629
citations

30070

54
h-index

40979

93
g-index

228
all docs

228
docs citations

228
times ranked

6411
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry of Atmospheric Brown Carbon. <i>Chemical Reviews</i> , 2015, 115, 4335-4382.	47.7	1,121
2	Heterogeneous Photochemistry in the Atmosphere. <i>Chemical Reviews</i> , 2015, 115, 4218-4258.	47.7	497
3	Formation of brown carbon via reactions of ammonia with secondary organic aerosols from biogenic and anthropogenic precursors. <i>Atmospheric Environment</i> , 2012, 63, 22-31.	4.1	349
4	Effect of Solar Radiation on the Optical Properties and Molecular Composition of Laboratory Proxies of Atmospheric Brown Carbon. <i>Environmental Science & Technology</i> , 2014, 48, 10217-10226.	10.0	250
5	Molecular Characterization of Brown Carbon in Biomass Burning Aerosol Particles. <i>Environmental Science & Technology</i> , 2016, 50, 11815-11824.	10.0	237
6	Appearance of strong absorbers and fluorophores in limonene ³ secondary organic aerosol due to NH ₄ ⁺ -mediated chemical aging over long time scales. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	234
7	Molecular Chemistry of Atmospheric Brown Carbon Inferred from a Nationwide Biomass Burning Event. <i>Environmental Science & Technology</i> , 2017, 51, 11561-11570.	10.0	215
8	Formation of nitrogen- and sulfur-containing light-absorbing compounds accelerated by evaporation of water from secondary organic aerosols. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	189
9	High-resolution mass spectrometry analysis of secondary organic aerosol generated by ozonolysis of isoprene. <i>Atmospheric Environment</i> , 2010, 44, 1032-1042.	4.1	167
10	Effect of humidity on the composition of isoprene photooxidation secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6931-6944.	4.9	167
11	High-resolution mass spectrometric analysis of secondary organic aerosol produced by ozonation of limonene. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1009-1022.	2.8	166
12	High-Resolution Desorption Electrospray Ionization Mass Spectrometry for Chemical Characterization of Organic Aerosols. <i>Analytical Chemistry</i> , 2010, 82, 2048-2058.	6.5	160
13	Revealing Brown Carbon Chromophores Produced in Reactions of Methylglyoxal with Ammonium Sulfate. <i>Environmental Science & Technology</i> , 2015, 49, 14257-14266.	10.0	149
14	Comprehensive Molecular Characterization of Atmospheric Brown Carbon by High Resolution Mass Spectrometry with Electrospray and Atmospheric Pressure Photoionization. <i>Analytical Chemistry</i> , 2018, 90, 12493-12502.	6.5	148
15	Molecular chemistry of organic aerosols through the application of high resolution mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3612.	2.8	147
16	Molecular Characterization of Organosulfates in Organic Aerosols from Shanghai and Los Angeles Urban Areas by Nanospray-Desorption Electrospray Ionization High-Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2014, 48, 10993-11001.	10.0	138
17	Interaction of Gas-Phase Ozone at 296 K with Unsaturated Self-Assembled Monolayers: A New Look at an Old System. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10473-10485.	2.5	123
18	Excitation-Emission Spectra and Fluorescence Quantum Yields for Fresh and Aged Biogenic Secondary Organic Aerosols. <i>Environmental Science & Technology</i> , 2013, 47, 5763-5770.	10.0	119

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19	Quantification of Ozone Levels in Indoor Environments Generated by Ionization and Ozonolysis Air Purifiers. <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 601-610.	1.9	116
20	Predicting the glass transition temperature and viscosity of secondary organic material using molecular composition. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6331-6351.	4.9	116
21	Molecular composition and photochemical lifetimes of brown carbon chromophores in biomass burning organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1105-1129.	4.9	115
22	Size Effects in Cluster Infrared Spectra: the ν_1 Band of $\text{Ar}_n\text{-HCO}^+$ ($n = 1-13$). <i>The Journal of Physical Chemistry</i> , 1995, 99, 17118-17129.	2.9	114
23	Photolytic processing of secondary organic aerosols dissolved in cloud droplets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12199.	2.8	110
24	Direct Photolysis of α -Pinene Ozonolysis Secondary Organic Aerosol: Effect on Particle Mass and Peroxide Content. <i>Environmental Science & Technology</i> , 2014, 48, 11251-11258.	10.0	105
25	Nitrogen-Containing Organic Compounds and Oligomers in Secondary Organic Aerosol Formed by Photooxidation of Isoprene. <i>Environmental Science & Technology</i> , 2011, 45, 6908-6918.	10.0	100
26	Time-resolved molecular characterization of limonene/ozone aerosol using high-resolution electrospray ionization mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7931.	2.8	99
27	Complex refractive indices in the near-ultraviolet spectral region of biogenic secondary organic aerosol aged with ammonia. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10629-10642.	2.8	98
28	Photochemical Aging of Secondary Organic Aerosol Particles Generated from the Oxidation of d-Limonene. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1907-1913.	2.5	97
29	The Effect of Solvent on the Analysis of Secondary Organic Aerosol Using Electrospray Ionization Mass Spectrometry. <i>Environmental Science & Technology</i> , 2008, 42, 7341-7346.	10.0	96
30	Molecular Selectivity of Brown Carbon Chromophores. <i>Environmental Science & Technology</i> , 2014, 48, 12047-12055.	10.0	94
31	Photodissociation of Peroxynitric Acid in the Near-IR. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3766-3772.	2.5	92
32	Brown carbon formation from ketoaldehydes of biogenic monoterpenes. <i>Faraday Discussions</i> , 2013, 165, 473.	3.2	89
33	Mass Spectrometry Analysis in Atmospheric Chemistry. <i>Analytical Chemistry</i> , 2018, 90, 166-189.	6.5	87
34	Mass spectrometric approaches for chemical characterisation of atmospheric aerosols: critical review of the most recent advances. <i>Environmental Chemistry</i> , 2012, 9, 163.	1.5	84
35	First Spectroscopic Observation of Gas-Phase HOONO. <i>Journal of Physical Chemistry A</i> , 2002, 106, 855-859.	2.5	82
36	Size distribution and mixing state of black carbon particles during a heavy air pollution episode in Shanghai. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5399-5411.	4.9	82

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37	Effect of viscosity on photodegradation rates in complex secondary organic aerosol materials. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8785-8793.	2.8	76
38	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science & Technology</i> , 2017, 51, 2519-2528.	10.0	75
39	Molecular Characterization of Organosulfur Compounds in Biodiesel and Diesel Fuel Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 119-127.	10.0	74
40	Quantum state-resolved reactive scattering of $F+CH_4 \rightarrow HF(v,J)+CH_3$: Nascent $HF(v,J)$ product state distributions. <i>Journal of Chemical Physics</i> , 2000, 113, 3670-3680.	3.0	73
41	The infrared spectrum of the $H_2 \leftarrow HCO^+$ complex. <i>Journal of Chemical Physics</i> , 1995, 102, 5152-5164.	3.0	71
42	Infrared photodissociation spectra of $CH_3 + Ar$ complexes ($n=1-8$). <i>Journal of Chemical Physics</i> , 1998, 108, 10046-10060.	3.0	70
43	Molecular composition of particulate matter emissions from dung and brushwood burning household cookstoves in Haryana, India. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2461-2480.	4.9	69
44	Mid-infrared spectra of $He \leftarrow HN_2$ and $He \leftarrow HN_2$. <i>Journal of Chemical Physics</i> , 1996, 104, 3876-3885.	3.0	65
45	Atmospheric Photosensitization: A New Pathway for Sulfate Formation. <i>Environmental Science & Technology</i> , 2020, 54, 3114-3120.	10.0	65
46	Effect of relative humidity on the composition of secondary organic aerosol from the oxidation of toluene. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1643-1652.	4.9	64
47	High-Resolution Mass Spectrometry and Molecular Characterization of Aqueous Photochemistry Products of Common Types of Secondary Organic Aerosols. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2594-2606.	2.5	63
48	Photodegradation of Secondary Organic Aerosol Particles as a Source of Small, Oxygenated Volatile Organic Compounds. <i>Environmental Science & Technology</i> , 2016, 50, 9990-9997.	10.0	63
49	Energy-dependent cross sections and nonadiabatic reaction dynamics in $F(2P_{3/2}, 2P_{1/2}) + n \leftarrow H_2 \rightarrow HF(v,J) + H$. <i>Journal of Chemical Physics</i> , 1999, 111, 8404-8416.	3.0	62
50	Exploring matrix effects on photochemistry of organic aerosols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13780-13785.	7.1	62
51	Contribution of Carbonyl Photochemistry to Aging of Atmospheric Secondary Organic Aerosol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8337-8344.	2.5	61
52	Mid-infrared spectra of the proton-bound complexes $Nen \leftarrow HCO^+$ ($n=1,2$). <i>Journal of Chemical Physics</i> , 1996, 105, 1770-1777.	3.0	60
53	Experimental and Theoretical Study of Aqueous <i>cis</i> -Pinonic Acid Photolysis. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12930-12945.	2.5	60
54	Infrared photodissociation spectra of isomeric $SiOH + Ar$ ($n=1-10$) complexes. <i>Chemical Physics</i> , 1998, 239, 393-407.	1.9	58

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55	Formation of Light Absorbing Soluble Secondary Organics and Insoluble Polymeric Particles from the Dark Reaction of Catechol and Guaiacol with Fe(III). <i>Environmental Science & Technology</i> , 2015, 49, 7793-7801.	10.0	58
56	Quantum state-resolved reactive scattering of F+H ₂ in supersonic jets: Nascent HF(v,J) rovibrational distributions via IR laser direct absorption methods. <i>Journal of Chemical Physics</i> , 1998, 109, 9306-9317.	3.0	55
57	High-Resolution Electrospray Ionization Mass Spectrometry Analysis of Water-Soluble Organic Aerosols Collected with a Particle into Liquid Sampler. <i>Analytical Chemistry</i> , 2010, 82, 8010-8016.	6.5	55
58	Photochemistry of Products of the Aqueous Reaction of Methylglyoxal with Ammonium Sulfate. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 522-532.	2.7	55
59	Microsolvation of the ammonium ion in argon: infrared spectra of NH ₄ ⁺ ⋯Ar _n complexes (n = 1–7). <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 637-647.	1.8	54
60	Dissociation energy of the Ar⋯HN ₂ complex. <i>Chemical Physics Letters</i> , 1997, 265, 303-307.	2.6	54
61	Cis-cis and trans-perp HOONO: Action spectroscopy and isomerization kinetics. <i>Journal of Chemical Physics</i> , 2004, 121, 1432-1448.	3.0	54
62	Overtone spectroscopy of H ₂ O clusters in the ν _{OH} =2 manifold: Infrared-ultraviolet vibrationally mediated dissociation studies. <i>Journal of Chemical Physics</i> , 2005, 122, 194316.	3.0	54
63	The infrared spectrum of He⋯HCO ⁺ . <i>Journal of Chemical Physics</i> , 1995, 103, 1297-1302.	3.0	53
64	Physical properties of ambient and laboratory-generated secondary organic aerosol. <i>Geophysical Research Letters</i> , 2014, 41, 4347-4353.	4.0	53
65	Photodegradation of secondary organic aerosol generated from limonene oxidation by ozone studied with chemical ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3851-3865.	4.9	52
66	Chemical Analysis of Complex Organic Mixtures Using Reactive Nanospray Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7179-7187.	6.5	52
67	Hindered rotation in ion-neutral molecular complexes: The $\hat{1}/2_1$ vibration of H ₂ ⋯HCO ⁺ and D ₂ ⋯DCO ⁺ . <i>Journal of Chemical Physics</i> , 1997, 107, 8229-8238.	3.0	51
68	Aqueous Photochemistry of Secondary Organic Aerosol of $\hat{1}\pm$ -Pinene and $\hat{1}\pm$ -Humulene Oxidized with Ozone, Hydroxyl Radical, and Nitrate Radical. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1298-1309.	2.5	51
69	Reactive scattering of F+HD $\hat{1}\pm$ HF(v,J)+D $\hat{1}\pm$ HF(v,J) nascent product state distributions and evidence for quantum transition state resonances. <i>Journal of Chemical Physics</i> , 2002, 116, 5622-5632.	3.0	49
70	Absorption Spectra and Photolysis of Methyl Peroxide in Liquid and Frozen Water. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6068-6077.	2.5	49
71	Infrared predissociation spectra of HeHO ₂ ⁺ and NeHO ₂ ⁺ : prediction of the $\hat{1}$ frequency of HO ₂ ⁺ . <i>Chemical Physics Letters</i> , 1997, 278, 26-30.	2.6	48
72	Cavity Ringdown Spectroscopy of cis-cis HOONO and the HOONO/HONO ₂ Branching Ratio in the Reaction OH + NO ₂ + M. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6974-6985.	2.5	48

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73	Infrared predissociation spectra of N_nH_n^+ clusters ($n=1-5$). <i>Journal of Chemical Physics</i> , 1998, 108, 8964-8975.	3.0	47
74	Effect of Photolysis on Absorption and Fluorescence Spectra of Light-Absorbing Secondary Organic Aerosols. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 235-245.	2.7	47
75	Applications of High-Resolution Electrospray Ionization Mass Spectrometry to Measurements of Average Oxygen to Carbon Ratios in Secondary Organic Aerosols. <i>Environmental Science & Technology</i> , 2012, 46, 8315-8324.	10.0	44
76	Direct photolysis of carbonyl compounds dissolved in cloud and fog-droplets. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9461-9477.	4.9	44
77	Hygroscopic Growth and Deliquescence of NaCl Nanoparticles Mixed with Surfactant SDS. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2435-2449.	2.6	42
78	Effective absorption cross sections and photolysis rates of anthropogenic and biogenic secondary organic aerosols. <i>Atmospheric Environment</i> , 2016, 130, 172-179.	4.1	42
79	New mass spectrometry techniques for studying physical chemistry of atmospheric heterogeneous processes. <i>International Reviews in Physical Chemistry</i> , 2013, 32, 128-170.	2.3	41
80	Online single particle measurement of fireworks pollution during Chinese New Year in Nanning. <i>Journal of Environmental Sciences</i> , 2017, 53, 184-195.	6.1	41
81	The infrared spectrum of the $\text{N}_2\text{H}^+\text{He}$ ion-neutral complex. <i>Journal of Chemical Physics</i> , 1995, 102, 5570-5571.	3.0	40
82	Temperature Dependent Kinetics of the OH/HO ₂ /O ₃ Chain Reaction by Time-Resolved IR Laser Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3964-3973.	2.5	40
83	Intermolecular interaction in the OH+He and OH+Ne open-shell ionic complexes: Infrared predissociation spectra of the $\nu_{1/21}$ and $\nu_{1/21}+\nu_{1/2b}$ vibrations. <i>Journal of Chemical Physics</i> , 1998, 109, 3841-3849.	3.0	39
84	Ozonolysis and photolysis of alkene-terminated self-assembled monolayers on quartz nanoparticles: implications for photochemical aging of organic aerosol particles. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2506.	2.8	39
85	Plant-derived Secondary Organic Material in the Air and Ecosystems. <i>Trends in Plant Science</i> , 2017, 22, 744-753.	8.8	39
86	Direct aqueous photochemistry of isoprene high-NO _x secondary organic aerosol. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9702.	2.8	38
87	Formation of Light-Absorbing Organosulfates during Evaporation of Secondary Organic Material Extracts in the Presence of Sulfuric Acid. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 947-957.	2.7	38
88	The $\nu_{1/23}$ infrared spectrum of the He- NH_4^+ complex. <i>Chemical Physics Letters</i> , 1996, 260, 545-550.	2.6	37
89	Reactive Oxygen Species Production from Secondary Organic Aerosols: The Importance of Singlet Oxygen. <i>Environmental Science & Technology</i> , 2019, 53, 8553-8562.	10.0	36
90	Intermolecular interaction in the CH_3He^+ ionic complex revealed by ab initio calculations and infrared photodissociation spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 110, 9527-9535.	3.0	35

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91	Superoxide Formation from Aqueous Reactions of Biogenic Secondary Organic Aerosols. <i>Environmental Science & Technology</i> , 2021, 55, 260-270.	10.0	35
92	A 3.Pi.u .rarw. X 3.SIGMA.g- Electronic Spectrum of N3+. <i>The Journal of Physical Chemistry</i> , 1994, 98, 8896-8902.	2.9	34
93	A comparison of the chemical sinks of atmospheric organics in the gas and aqueous phase. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8205-8222.	4.9	34
94	Emissions from village cookstoves in Haryana, India, and their potential impacts on air quality. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15169-15182.	4.9	33
95	Humidity-Dependent Viscosity of Secondary Organic Aerosol from Ozonolysis of Î²-Caryophyllene: Measurements, Predictions, and Implications. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 305-318.	2.7	32
96	State-to-state reaction dynamics in crossed supersonic jets: threshold evidence for non-adiabatic channels in F+H2. <i>Faraday Discussions</i> , 1999, 113, 107-117.	3.2	31
97	Differential scattering dynamics of F+CH4â†’HF(v,j)+CH3 via high-resolution IR laser dopplerimetry. <i>Chemical Physics Letters</i> , 2001, 335, 381-387.	2.6	31
98	UV Photodissociation Spectroscopy of Oxidized Undecylenic Acid Films. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3584-3592.	2.5	31
99	Evidence for excited spin-orbit state reaction dynamics in F+H2: Theory and experiment. <i>Journal of Chemical Physics</i> , 2008, 128, 084313.	3.0	31
100	Composition and volatility of secondary organic aerosol (SOA) formed from oxidation of real tree emissions compared to simplified volatile organic compound (VOC) systems. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5629-5644.	4.9	31
101	Kinetic Analysis of Competition between Aerosol Particle Removal and Generation by Ionization Air Purifiers. <i>Environmental Science & Technology</i> , 2007, 41, 2498-2504.	10.0	30
102	Atmospheric Oxidation of Squalene: Molecular Study Using COBRA Modeling and High-Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2015, 49, 13304-13313.	10.0	30
103	Impacts of household sources on air pollution at village and regional scales in India. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7719-7742.	4.9	30
104	IR Spectra of Protonated Carbonic Acid and Its Isomeric H3O+â€¦CO2 Complex. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4754-4756.	13.8	29
105	Hygroscopic Growth and Deliquescence of NaCl Nanoparticles Coated with Surfactant AOT. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7678-7686.	2.5	29
106	Observation of the infrared spectrum of the Î½3 band of the argon-ammonium ionic complex. <i>Chemical Physics Letters</i> , 1996, 250, 266-272.	2.6	28
107	Infrared Spectrum of the Arâ†’NH2+Ionic Complex. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10017-10024.	2.5	28
108	On Surface Order and Disorder of Î±-Pinene-Derived Secondary Organic Material. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4609-4617.	2.5	27

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109	Liquid-liquid phase separation and viscosity within secondary organic aerosol generated from diesel fuel vapors. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12515-12529.	4.9	27
110	A Real-Time Fast-Flow Tube Study of VOC and Particulate Emissions from Electronic, Potentially Reduced-Harm, Conventional, and Reference Cigarettes. <i>Aerosol Science and Technology</i> , 2015, 49, 816-827.	3.1	26
111	An approach toward quantification of organic compounds in complex environmental samples using high-resolution electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2013, 5, 72-80.	2.7	24
112	Viscosities, diffusion coefficients, and mixing times of intrinsic fluorescent organic molecules in brown limonene secondary organic aerosol and tests of the Stokes-Einstein equation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1491-1503.	4.9	24
113	Insights into the C-dependent mechanisms controlling the evaporation of α -pinene secondary organic aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 4061-4073.	4.9	23
114	Combined infrared and ab initio study of the H_2i-HN_2+ complex. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 149-150, 167-177.	1.8	22
115	Absorption spectra and aqueous photochemistry of β -hydroxyalkyl nitrates of atmospheric interest. <i>Molecular Physics</i> , 2015, 113, 2179-2190.	1.7	22
116	Photodegradation of Secondary Organic Aerosol Material Quantified with a Quartz Crystal Microbalance. <i>Environmental Science and Technology Letters</i> , 2018, 5, 366-371.	8.7	22
117	Dust-Catalyzed Oxidative Polymerization of Catechol and Its Impacts on Ice Nucleation Efficiency and Optical Properties. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1127-1139.	2.7	22
118	Photochemistry of aldehyde clusters: cross-molecular versus unimolecular reaction dynamics. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23861-23868.	2.8	21
119	Efficient Formation of Light-Absorbing Polymeric Nanoparticles from the Reaction of Soluble Fe(III) with C4 and C6 Dicarboxylic Acids. <i>Environmental Science & Technology</i> , 2017, 51, 9700-9708.	10.0	21
120	Secondary organic aerosol from atmospheric photooxidation of indole. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11605-11621.	4.9	21
121	Modeling reactive ammonia uptake by secondary organic aerosol in CMAQ: application to the continental US. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3641-3657.	4.9	21
122	Nitrogen-containing secondary organic aerosol formation by acrolein reaction with ammonia/ammonium. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1343-1356.	4.9	21
123	Temperature and Pressure Dependence of High-Resolution Air-Broadened Absorption Cross Sections of $NO_2(415\text{--}525\text{ nm})$. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4864-4872.	2.5	19
124	Ultrafast photochemistry of methyl hydroperoxide on ice particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6600-6604.	7.1	19
125	Probing molecular associations of field-collected and laboratory-generated SOA with nano-DESI high-resolution mass spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1042-1051.	3.3	19
126	Effect of Oxalate and Sulfate on Iron-Catalyzed Secondary Brown Carbon Formation. <i>Environmental Science & Technology</i> , 2019, 53, 6708-6717.	10.0	19

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127	Interaction of Water Vapor with the Surfaces of Imidazolium-Based Ionic Liquid Nanoparticles and Thin Films. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11255-11265.	2.6	18
128	Feasibility of Photosensitized Reactions with Secondary Organic Aerosol Particles in the Presence of Volatile Organic Compounds. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4961-4967.	2.5	18
129	Aqueous Photochemistry of Secondary Organic Aerosol of α -Pinene and α -Humulene in the Presence of Hydrogen Peroxide or Inorganic Salts. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2736-2746.	2.7	18
130	Photochemical Reactions of Cyclohexanone: Mechanisms and Dynamics. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7112-7120.	2.5	17
131	A Role for 2-Methyl Pyrrole in the Browning of 4-Oxopentanal and Limonene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 11048-11056.	10.0	17
132	Photodegradation of Secondary Organic Aerosols by Long-Term Exposure to Solar Actinic Radiation. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1078-1089.	2.7	17
133	Photochemical Degradation of 4-Nitrocatechol and 2,4-Dinitrophenol in a Sugar-Glass Secondary Organic Aerosol Surrogate. <i>Environmental Science & Technology</i> , 2021, 55, 14586-14594.	10.0	16
134	Fast vibrational relaxation of OH($\nu=9$) by ammonia and ozone. <i>Chemical Physics Letters</i> , 2001, 341, 107-114.	2.6	15
135	Vibrationally mediated dissociation dynamics of H ₂ O in the $\nu_{OH}=2$ polyad. <i>Journal of Chemical Physics</i> , 2003, 119, 10158-10168.	3.0	15
136	Time-resolved fluorescence of NO ₂ in a magnetic field. <i>Chemical Physics Letters</i> , 1993, 215, 662-667.	2.6	14
137	Near-IR photodissociation of peroxy acetyl nitrate. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 385-392.	4.9	14
138	1,4-butanediol content of aqua dots children's craft toy beads. <i>Journal of Medical Toxicology</i> , 2009, 5, 120-124.	1.5	14
139	Effect of Alkyl Chain Length on Hygroscopicity of Nanoparticles and Thin Films of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29458-29466.	3.1	14
140	Molecular Characterization of Atmospheric Brown Carbon. <i>ACS Symposium Series</i> , 2018, , 261-274.	0.5	14
141	Reactive uptake of ammonia by secondary organic aerosols: Implications for air quality. <i>Atmospheric Environment</i> , 2018, 189, 1-8.	4.1	14
142	Viscosity and liquid-liquid phase separation in healthy and stressed plant SOA. <i>Environmental Science Atmospheres</i> , 2021, 1, 140-153.	2.4	14
143	Global Distribution of the Phase State and Mixing Times within Secondary Organic Aerosol Particles in the Troposphere Based on Room-Temperature Viscosity Measurements. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3458-3473.	2.7	14
144	Glutathione peroxidase inhibitory assay for electrophilic pollutants in diesel exhaust and tobacco smoke. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 431-441.	3.7	12

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146	Stability of α -Pinene and β -Limonene Ozonolysis Secondary Organic Aerosol Compounds Toward Hydrolysis and Hydration. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2555-2564.	2.7	12
147	Reply to the comment on "The $^{1/2}$ infrared spectrum of the $\text{He}^+ \cdot \text{NH}_4^+$ complex". <i>Chemical Physics Letters</i> , 1997, 270, 252-254.	2.6	10
148	Stoichiometry of Ozonation of Environmentally Relevant Olefins in Saturated Hydrocarbon Solvents. <i>Environmental Science & Technology</i> , 2008, 42, 3582-3587.	10.0	10
149	Metastable decay of $\text{N}+2\text{He}_n$ ($n = 1$) ($1 < n \leq 6$) clusters. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 135, 19-30.	1.8	9
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158	Heating-Induced Transformations of Atmospheric Particles: Environmental Transmission Electron Microscopy Study. <i>Analytical Chemistry</i> , 2018, 90, 9761-9768.	6.5	7
159	Measurement of Ozone Emission and Particle Removal Rates from Portable Air Purifiers. <i>Journal of Chemical Education</i> , 2009, 86, 219.	2.3	6
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161	Naphthalene-Derived Secondary Organic Aerosols Interfacial Photosensitizing Properties. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093465.	4.0	6
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164	UVB-irradiated Laboratory-generated Secondary Organic Aerosol Extracts Have Increased Cloud Condensation Nuclei Abilities: Comparison with Dissolved Organic Matter and Implications for the Photomineralization Mechanism. <i>Chimia</i> , 2020, 74, 142.	0.6	4
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