

Hang Su

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.

183
papers

9,224
citations

45
h-index

94
g-index

322
ext. papers

11,537
ext. citations

8
avg, IF

5.82
L-index

#	Paper	IF	Citations
183	Volatile organic compounds in wintertime North China Plain: Insights from measurements of proton transfer reaction time-of-flight mass spectrometer (PTR-ToF-MS).. <i>Journal of Environmental Sciences</i> , 2022 , 114, 98-114	6.4	1
182	Impact of non-ideality on reconstructing spatial and temporal variations in aerosol acidity with multiphase buffer theory. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 47-63	6.8	0
181	Synthesis and Bioevaluation of the Cyclopentadienyl Tricarbonyl Technetium-99m 2-Nitroimidazole Derivatives for Tumor Hypoxia Imaging.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 60, 128583	2.9	
180	Bimodal distribution of size-resolved particle effective density: results from a short campaign in a rural environment over the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 2029-2047	6.8	1
179	Hygroscopicity of organic compounds as a function of organic functionality, water solubility, molecular weight, and oxidation level. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 3985-4004	6.8	1
178	The impact of chlorine chemistry combined with heterogeneous N<sub>2</sub>O<sub>5</sub> reactions on air quality in China. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 3743-3762	6.8	0
177	Direct observations indicate photodegradable oxygenated volatile organic compounds (OVOCs) as larger contributors to radicals and ozone production in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4117-4128	6.8	1
176	Measurement report: On the difference in aerosol hygroscopicity between high and low relative humidity conditions in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4599-4613	6.8	0
175	Particle number size distribution of PM1 and PM10 in fogs and implications on fog droplet evolutions. <i>Atmospheric Environment</i> , 2022 , 277, 119086	5.3	0
174	A retrospective study of factors contributing to anchorage loss in upper premolar extraction cases.. <i>Nigerian Journal of Clinical Practice</i> , 2022 , 25, 664-669	1	
173	Characteristics and source apportionment of black carbon aerosol in the North China Plain. <i>Atmospheric Research</i> , 2022 , 276, 106246	5.4	0
172	Development and Assessment of a High-Resolution Biogenic Emission Inventory from Urban Green Spaces in China.. <i>Environmental Science & Technology</i> , 2021 ,	10.3	8
171	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. <i>Nature Communications</i> , 2021 , 12, 6416	17.4	7
170	Calibration and evaluation of a broad supersaturation scanning (BS2) cloud condensation nuclei counter for rapid measurement of particle hygroscopicity and cloud condensation nuclei (CCN) activity. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6991-7005	4	
169	Water-driven microbial nitrogen transformations in biological soil crusts causing atmospheric nitrous acid and nitric oxide emissions. <i>ISME Journal</i> , 2021 ,	11.9	1
168	Unveiling the dipole synergic effect of biogenic and anthropogenic emissions on ozone concentrations. <i>Science of the Total Environment</i> , 2021 , 818, 151722	10.2	5
167	Planetary Boundary Layer Height Modulates Aerosol-Water Vapor Interactions During Winter in the Megacity of Delhi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035681	4.4	0

166	Fully Distributed Event-Based Protocols for LurB Systems over Directed Graphs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	0
165	Impacts of biogenic emissions from urban landscapes on summer ozone and secondary organic aerosol formation in megacities.. <i>Science of the Total Environment</i> , 2021 , 152654	10.2	4
164	Effects of Aerosol Water Content on the Formation of secondary inorganic aerosol during a Winter Heavy PM2.5 Pollution Episode in Xi'an, China. <i>Atmospheric Environment</i> , 2021 , 252, 118304	5.3	12
163	Light absorption of black carbon and brown carbon in winter in North China Plain: comparisons between urban and rural sites. <i>Science of the Total Environment</i> , 2021 , 770, 144821	10.2	10
162	Reactive nitrogen around the Arabian Peninsula and in the Mediterranean Sea during the 2017 AQABA ship campaign. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7473-7498	6.8	2
161	Secondary aerosol formation alters CCN activity in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7409-7427	6.8	6
160	Face masks effectively limit the probability of SARS-CoV-2 transmission. <i>Science</i> , 2021 , 372,	33.3	73
159	Exploring the Drivers and Photochemical Impact of the Positive Correlation between Single Scattering Albedo and Aerosol Optical Depth in the Troposphere. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 504-510	11	1
158	Quaternary phosphonium modified cellulose microsphere adsorbent for Tc decontamination with ultra-high selectivity. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123354	12.8	7
157	Effect of mixing structure on the water uptake of mixtures of ammonium sulfate and phthalic acid particles. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2179-2190	6.8	3
156	Increase of nitrooxy organosulfates in firework-related urban aerosols during Chinese New Year's Eve. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11453-11465	6.8	5
155	Quantifying the role of PM dropping in variations of ground-level ozone: Inter-comparison between Beijing and Los Angeles. <i>Science of the Total Environment</i> , 2021 , 788, 147712	10.2	14
154	Comparative observation of atmospheric nitrous acid (HONO) in Xi'an and Xianyang located in the GuanZhong basin of western China. <i>Environmental Pollution</i> , 2021 , 289, 117679	9.3	0
153	Multiphase chemistry experiment in Fogs and Aerosols in the North China Plain (McFAN): integrated analysis and intensive winter campaign 2018. <i>Faraday Discussions</i> , 2021 , 226, 207-222	3.6	10
152	Hygroscopic properties of NaCl nanoparticles on the surface: a scanning force microscopy study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9967-9973	3.6	5
151	Hygroscopicity of amino acids and their effect on the water uptake of ammonium sulfate in the mixed aerosol particles. <i>Science of the Total Environment</i> , 2020 , 734, 139318	10.2	8
150	Natural sea-salt emissions moderate the climate forcing of anthropogenic nitrate. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 771-786	6.8	6
149	Distinct diurnal variation in organic aerosol hygroscopicity and its relationship with oxygenated organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 865-880	6.8	22

148	Photochemical Aqueous-Phase Reactions Induce Rapid Daytime Formation of Oxygenated Organic Aerosol on the North China Plain. <i>Environmental Science & Technology</i> , 2020 , 54, 3849-3860	10.3	42
147	Molecular characterization of firework-related urban aerosols using Fourier transform ion cyclotron resonance mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6803-6820	6.8	9
146	Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4757-4785	6.8	16
145	Aerosol pH and chemical regimes of sulfate formation in aerosol water during winter haze in the North China Plain 2020 ,		2
144	Chemical Differences Between PM1 and PM2.5 in Highly Polluted Environment and Implications in Air Pollution Studies. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086288	4.9	43
143	Predicting cloud condensation nuclei number concentration based on conventional measurements of aerosol properties in the North China Plain. <i>Science of the Total Environment</i> , 2020 , 719, 137473	10.2	4
142	Increase of High Molecular Weight Organosulfate With Intensifying Urban Air Pollution in the Megacity Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032200	4.4	12
141	Molecular markers of biomass burning and primary biological aerosols in urban Beijing: size distribution and seasonal variation. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3623-3644	6.8	12
140	Aerosol pH and chemical regimes of sulfate formation in aerosol water during winter haze in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11729-11746	6.8	17
139	Impact of biomass burning aerosols on radiation, clouds, and precipitation over the Amazon: relative importance of aerosol-cloud and aerosol-radiation interactions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13283-13301	6.8	19
138	Measurements of higher alkanes using NO _x -to-F ₂ chemical ionization in PTR-ToF-MS: important contributions of higher alkanes to secondary organic aerosols in China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14123-14138	6.8	12
137	Nano-hygroscopicity tandem differential mobility analyzer (nano-HTDMA) for investigating hygroscopic properties of sub-10 nm aerosol nanoparticles. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5551-5567	4	3
136	Multifactor colorimetric analysis on pH-indicator papers: an optimized approach for direct determination of ambient aerosol pH. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 6053-6065	4	7
135	High daytime abundance of primary organic aerosols over Mt. Emei, Southwest China in summer. <i>Science of the Total Environment</i> , 2020 , 703, 134475	10.2	7
134	Dust-Dominated Coarse Particles as a Medium for Rapid Secondary Organic and Inorganic Aerosol Formation in Highly Polluted Air. <i>Environmental Science & Technology</i> , 2020 , 54, 15710-15721	10.3	14
133	Natural gas shortages during the "coal-to-gas" transition in China have caused a large redistribution of air pollution in winter 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 31018-31025	11.5	23
132	Model Calculations of Aerosol Transmission and Infection Risk of COVID-19 in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	78
131	Measurements of higher alkanes using NO _x -to-F ₂ PTR-ToF-MS: significant contributions of higher alkanes to secondary organic aerosols in China 2020 ,		1

130	High Concentrations of Atmospheric Isocyanic Acid (HNCO) Produced from Secondary Sources in China. <i>Environmental Science & Technology</i> , 2020 , 54, 11818-11826	10.3	10
129	New Multiphase Chemical Processes Influencing Atmospheric Aerosols, Air Quality, and Climate in the Anthropocene. <i>Accounts of Chemical Research</i> , 2020 , 53, 2034-2043	24.3	32
128	Multiphase buffer theory explains contrasts in atmospheric aerosol acidity. <i>Science</i> , 2020 , 369, 1374-1377	33.3	52
127	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017 2019 ,		1
126	A review of experimental techniques for aerosol hygroscopicity studies 2019 ,		1
125	Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. <i>Environmental Science & Technology</i> , 2019 , 53, 12506-12518	10.3	30
124	Size-Resolved Single-Particle Fluorescence Spectrometer for Real-Time Analysis of Bioaerosols: Laboratory Evaluation and Atmospheric Measurements. <i>Environmental Science & Technology</i> , 2019 , 53, 13257-13264	10.3	6
123	A pre-targeting strategy for imaging glucose metabolism using technetium-99m labelled dibenzocyclooctyne derivative. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 1791-1798	2.9	6
122	Soil HONO emissions at high moisture content are driven by microbial nitrate reduction to nitrite: tackling the HONO puzzle. <i>ISME Journal</i> , 2019 , 13, 1688-1699	11.9	34
121	Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2209-2232	6.8	9
120	Spectral Intensity Bioaerosol Sensor (SIBS): an instrument for spectrally resolved fluorescence detection of single particles in real time. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1337-1363	4	19
119	Effective density and hygroscopicity of protein particles generated with spray-drying process. <i>Journal of Aerosol Science</i> , 2019 , 137, 105441	4.3	2
118	Persistent growth of anthropogenic non-methane volatile organic compound (NMVOC) emissions in China during 1990-2017: drivers, speciation and ozone formation potential. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8897-8913	6.8	122
117	Relative importance of gas uptake on aerosol and ground surfaces characterized by equivalent uptake coefficients. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10981-11011	6.8	11
116	A review of experimental techniques for aerosol hygroscopicity studies. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12631-12686	6.8	46
115	Second inflection point of water surface tension in the deeply supercooled regime revealed by entropy anomaly and surface structure using molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3360-3369	3.6	16
114	Modeling the aging process of black carbon during atmospheric transport using a new approach: a case study in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9663-9680	6.8	10
113	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12195-12207	6.8	43

112	Hygroscopicity of organic surrogate compounds from biomass burning and their effect on the efflorescence of ammonium sulfate in mixed aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1045-1064	6.8	16
111	Technical note: Influence of surface roughness and local turbulence on coated-wall flow tube experiments for gas uptake and kinetic studies. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2669-2686	6.8	5
110	A parameterization of the heterogeneous hydrolysis of N_2O_5 for mass-based aerosol models: improvement of particulate nitrate prediction. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 673-689	6.8	25
109	Emission of nitrous acid from soil and biological soil crusts represents an important source of HONO in the remote atmosphere in Cyprus. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 799-813	6.8	36
108	Temperature effect on phase state and reactivity controls atmospheric multiphase chemistry and transport of PAHs. <i>Science Advances</i> , 2018 , 4, eaap7314	14.3	62
107	Reduction in black carbon light absorption due to multi-pollutant emission control during APEC China 2014. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10275-10287	6.8	14
106	Long-term study on coarse mode aerosols in the Amazon rain forest with the frequent intrusion of Saharan dust plumes. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10055-10088	6.8	33
105	Isotopic constraints on heterogeneous sulfate production in Beijing haze. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5515-5528	6.8	53
104	Molecular dynamics simulation of the surface tension of aqueous sodium chloride: from dilute to highly supersaturated solutions and molten salt. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17077-17086	6.8	18
103	Oxidation processes in the Eastern Mediterranean atmosphere: Evidence from the Modelling of HO_2 ; Measurements over Cyprus 2018 ,		1
102	Strong impact of wildfires on the abundance and aging of black carbon in the lowermost stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11595-E11603	11.5	59
101	Reduction in black carbon light absorption due to multi-pollutant emission control during APEC China 2014 2018 ,		1
100	Oxidation processes in the eastern Mediterranean atmosphere: evidence from the modelling of HO_2 ; measurements over Cyprus. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10825-10847	6.8	22
99	Amplification of light absorption of black carbon associated with air pollution. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9879-9896	6.8	46
98	Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air 2018 ,		1
97	Sizing of Ambient Particles From a Single-Particle Soot Photometer Measurement to Retrieve Mixing State of Black Carbon at a Regional Site of the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,778	4.4	13
96	Light absorption of brown carbon in eastern China based on 3-year multi-wavelength aerosol optical property observations and an improved absorption $\mu\text{g}^{-1}\text{cm}^{-1}$ exponent segregation method. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9061-9074	6.8	41
95	Mixing state and particle hygroscopicity of organic-dominated aerosols over the Pearl River Delta region in China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14079-14094	6.8	19

94	Long-term observations of cloud condensation nuclei over the Amazon rain forest [Part 2: Variability and characteristics of biomass burning, long-range transport, and pristine rain forest aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10289-10331	6.8	41
93	Black and brown carbon over central Amazonia: long-term aerosol measurements at the ATTO site. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12817-12843	6.8	35
92	Cloud droplet activation through oxidation of organic aerosol influenced by temperature and particle phase state. <i>Geophysical Research Letters</i> , 2017 , 44, 1583-1591	4.9	37
91	Atmospheric protein chemistry influenced by anthropogenic air pollutants: nitration and oligomerization upon exposure to ozone and nitrogen dioxide. <i>Faraday Discussions</i> , 2017 , 200, 413-427	3.6	22
90	Contributions of volatile and nonvolatile compounds (at 300°C) to condensational growth of atmospheric nanoparticles: An assessment based on 8.5 years of observations at the Central Europe background site Melpitz. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 485-497	4.4	9
89	Long-term observations of cloud condensation nuclei in the Amazon rain forest [Part 2: Variability and characteristic differences under near-pristine, biomass burning, and long-range transport conditions 2017 ,		4
88	Dependence of the hygroscopicity parameter κ on particle size, humidity and solute concentration: implications for laboratory experiments, field measurements and model studies 2017 ,		8
87	Mixing State of Refractory Black Carbon of the North China Plain Regional Aerosol Combining a Single Particle Soot Photometer and a Volatility Tandem Differential Mobility Analyzer 2017 ,		2
86	Long-term study on coarse mode aerosols in the Amazon rain forest with the frequent intrusion of Saharan dust plumes 2017 ,		1
85	Severe Pollution in China Amplified by Atmospheric Moisture. <i>Scientific Reports</i> , 2017 , 7, 15760	4.9	122
84	Light-induced protein nitration and degradation with HONO emission. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11819-11833	6.8	15
83	Regional modelling of polycyclic aromatic hydrocarbons: WRF-Chem-PAH model development and East Asia case studies. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12253-12267	6.8	2
82	Observations of the vertical distributions of summertime atmospheric pollutants and the corresponding ozone production in Shanghai, China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14275-14289	6.8	85
81	MIX: a mosaic Asian anthropogenic emission inventory under the international collaboration framework of the MICS-Asia and HTAP. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 935-963	6.8	744
80	Tandem configuration of differential mobility and centrifugal particle mass analysers for investigating aerosol hygroscopic properties. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1269-1280	4	8
79	Black and brown carbon over central Amazonia: Long-term aerosol measurements at the ATTO site 2017 ,		3
78	Molecular Dynamics Simulation of the Surface Tension of Aqueous Sodium Chloride: from Dilute to Highly Supersaturated Solutions and Molten Salt 2017 ,		2
77	Sea salt emission, transportation and influence on nitrate simulation: a case study in Europe 2016 ,		1

76	Sea salt emission, transport and influence on size-segregated nitrate simulation: a case study in northwestern Europe by WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12081-12097	6.8	25
75	Evaluation of the size segregation of elemental carbon (EC) emission in Europe: influence on the simulation of EC long-range transportation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1823-1835	6.8	13
74	Uptake of gaseous formaldehyde by soil surfaces: a combination of adsorption/desorption equilibrium and chemical reactions. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10299-10311	6.8	17
73	Ambient measurement of fluorescent aerosol particles with a WBS in the Yangtze River Delta of China: potential impacts of combustion-related aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11337-11348	6.8	24
72	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14421-14461	6.8	43
71	Daytime formation of nitrous acid at a coastal remote site in Cyprus indicating a common ground source of atmospheric HONO and NO. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14475-14493	6.8	45
70	Long-term observations of cloud condensation nuclei in the Amazon rain forest [Part 1: Aerosol size distribution, hygroscopicity, and new model parametrizations for CCN prediction. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15709-15740	6.8	72
69	A broad supersaturation scanning (BS2) approach for rapid measurement of aerosol particle hygroscopicity and cloud condensation nuclei activity. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 5183-5192	4	1
68	Measuring the morphology and density of internally mixed black carbon with SP2 and VTDMA: new insight into the absorption enhancement of black carbon in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 1833-1843	4	55
67	Pan-Eurasian Experiment (PEEX): Towards holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the Northern Eurasian region 2016 ,		2
66	Reactive nitrogen chemistry in aerosol water as a source of sulfate during haze events in China. <i>Science Advances</i> , 2016 , 2, e1601530	14.3	608
65	Episode-Based Evolution Pattern Analysis of Haze Pollution: Method Development and Results from Beijing, China. <i>Environmental Science & Technology</i> , 2016 , 50, 4632-41	10.3	78
64	Enhanced haze pollution by black carbon in megacities in China. <i>Geophysical Research Letters</i> , 2016 , 43, 2873-2879	4.9	399
63	Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. <i>Atmospheric Research</i> , 2016 , 182, 346-376	5.4	406
62	Size dependence of phase transitions in aerosol nanoparticles. <i>Nature Communications</i> , 2015 , 6, 5923	17.4	99
61	Scanning supersaturation condensation particle counter applied as a nano-CCN counter for size-resolved analysis of the hygroscopicity and chemical composition of nanoparticles. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2161-2172	4	14
60	The characteristics of atmospheric ice nuclei measured at the top of Huangshan (the Yellow Mountains) in Southeast China using a newly built static vacuum water vapor diffusion chamber. <i>Atmospheric Research</i> , 2015 , 153, 200-208	5.4	23
59	Comprehensive mapping and characteristic regimes of aerosol effects on the formation and evolution of pyro-convective clouds. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10325-10348	6.8	13

58	Exploring the severe winter haze in Beijing: the impact of synoptic weather, regional transport and heterogeneous reactions. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2969-2983	6.8	634
57	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10723-10776	6.8	155
56	Biological soil crusts accelerate the nitrogen cycle through large NO and HONO emissions in drylands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15384-15389	11.5	109
55	The characteristics of atmospheric ice nuclei measured at different altitudes in the Huangshan Mountains in Southeast China. <i>Advances in Atmospheric Sciences</i> , 2014 , 31, 396-406	2.9	25
54	Daytime HONO formation in the suburban area of the megacity Beijing, China. <i>Science China Chemistry</i> , 2014 , 57, 1032-1042	7.9	45
53	Atmospheric black carbon and warming effects influenced by the source and absorption enhancement in central Europe. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12683-12699	6.8	27
52	Mapping Asian anthropogenic emissions of non-methane volatile organic compounds to multiple chemical mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5617-5638	6.8	223
51	3-D model simulations of dynamical and microphysical interactions in pyroconvective clouds under idealized conditions. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7573-7583	6.8	17
50	Assessment of cloud supersaturation by size-resolved aerosol particle and cloud condensation nuclei (CCN) measurements. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2615-2629	4	19
49	Exploring the severe winter haze in Beijing 2014 ,		18
48	HONO emissions from soil bacteria as a major source of atmospheric reactive nitrogen. <i>Science</i> , 2013 , 341, 1233-5	33.3	207
47	An online monitoring system for atmospheric nitrous acid (HONO) based on stripping coil and ion chromatography. <i>Journal of Environmental Sciences</i> , 2013 , 25, 895-907	6.4	12
46	Impacts of emission controls and perturbations on an intense convective precipitation event during the 2008 Beijing Olympic Games 2013 ,		1
45	The Exchange of Soil Nitrite and Atmospheric HONO: A Missing Process in the Nitrogen Cycle and Atmospheric Chemistry. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2013 , 93-99	3	3
44	Biogenic potassium salt particles as seeds for secondary organic aerosol in the Amazon. <i>Science</i> , 2012 , 337, 1075-8	33.3	150
43	Exploring the atmospheric chemistry of nitrous acid (HONO) at a rural site in Southern China. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1497-1513	6.8	166
42	Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: diurnal cycle, aging and parameterization. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4477-4491	6.8	60
41	Cloud condensation nuclei (CCN) from fresh and aged air pollution in the megacity region of Beijing. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11023-11039	6.8	115

40	Potential contribution of new particle formation to cloud condensation nuclei in Beijing. <i>Atmospheric Environment</i> , 2011 , 45, 6070-6077	5.3	94
39	Soil nitrite as a source of atmospheric HONO and OH radicals. <i>Science</i> , 2011 , 333, 1616-8	33.3	330
38	Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China [Part 2: Size-resolved aerosol chemical composition, diurnal cycles, and externally mixed weakly CCN-active soot particles. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2817-2836	6.8	123
37	Oxidant (O ₃ + NO ₂) production processes and formation regimes in Beijing. <i>Journal of Geophysical Research</i> , 2010 , 115,		53
36	Correction to Oxidant (O ₃ +NO ₂) production processes and formation regimes in Beijing [Journal of Geophysical Research, 2010 , 115,		8
35	Rainforest aerosols as biogenic nuclei of clouds and precipitation in the Amazon. <i>Science</i> , 2010 , 329, 1513-1516	33.6	461
34	Hygroscopicity distribution concept for measurement data analysis and modeling of aerosol particle mixing state with regard to hygroscopic growth and CCN activation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7489-7503	6.8	89
33	Regional ozone pollution and key controlling factors of photochemical ozone production in Pearl River Delta during summer time. <i>Science China Chemistry</i> , 2010 , 53, 651-663	7.9	32
32	Competition of coagulation sink and source rate: New particle formation in the Pearl River Delta of China. <i>Atmospheric Environment</i> , 2010 , 44, 3278-3285	5.3	26
31	An observational study of the HONO-NO ₂ coupling at an urban site in Guangzhou City, South China. <i>Atmospheric Environment</i> , 2009 , 43, 5731-5742	5.3	84
30	Influence of soot mixing state on aerosol light absorption and single scattering albedo during air mass aging at a polluted regional site in northeastern China. <i>Journal of Geophysical Research</i> , 2009 , 114,		86
29	Rapid aerosol particle growth and increase of cloud condensation nucleus activity by secondary aerosol formation and condensation: A case study for regional air pollution in northeastern China. <i>Journal of Geophysical Research</i> , 2009 , 114,		153
28	Aerosol- and updraft-limited regimes of cloud droplet formation: influence of particle number, size and hygroscopicity on the activation of cloud condensation nuclei (CCN). <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 7067-7080	6.8	241
27	Aerosol optical properties and related chemical apportionment at Xinken in Pearl River Delta of China. <i>Atmospheric Environment</i> , 2008 , 42, 6351-6372	5.3	145
26	Observation of nighttime nitrous acid (HONO) formation at a non-urban site during PRIDE-PRD2004 in China. <i>Atmospheric Environment</i> , 2008 , 42, 6219-6232	5.3	101
25	Relative humidity dependence of aerosol optical properties and direct radiative forcing in the surface boundary layer at Xinken in Pearl River Delta of China: An observation based numerical study. <i>Atmospheric Environment</i> , 2008 , 42, 6373-6397	5.3	136
24	Regional ozone pollution and observation-based approach for analyzing ozone-precursor relationship during the PRIDE-PRD2004 campaign. <i>Atmospheric Environment</i> , 2008 , 42, 6203-6218	5.3	230
23	Nitrous acid (HONO) and its daytime sources at a rural site during the 2004 PRIDE-PRD experiment in China. <i>Journal of Geophysical Research</i> , 2008 , 113,		126

22	Identifying Dominant Sources of Respirable Suspended Particulates in Guangzhou, China. <i>Environmental Engineering Science</i> , 2008 , 25, 959-968	2	4
21	Traffic restrictions in Beijing during the Sino-African Summit 2006: aerosol size distribution and visibility compared to long-term in situ observations. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7583-7594	68	43
20	Analysis on concentration and source rate of precursor vapors participating in particle formation and growth at xinken in the Pearl River Delta of China. <i>Advances in Atmospheric Sciences</i> , 2008 , 25, 427-438	38	15
19	Size-resolved measurement of the mixing state of soot in the megacity Beijing, China: diurnal cycle, aging and parameterization		3
18	Aerosol and dynamic effects on the formation and evolution of pyro-clouds		1
17	The Amazon Tall Tower Observatory (ATTO) in the remote Amazon Basin: overview of first results from ecosystem ecology, meteorology, trace gas, and aerosol measurements		6
16	MIX: a mosaic Asian anthropogenic emission inventory for the MICS-Asia and the HTAP projects		75
15	Aerosol- and updraft-limited regimes of cloud droplet formation: influence of particle number, size and hygroscopicity on the activation of cloud condensation nuclei (CCN)		4
14	Multifactor colorimetric analysis on pH-indicator papers: an optimized approach for direct determination of ambient aerosol pH		2
13	Measuring morphology and density of internally mixed black carbon with SP2 and VTDMA: new insight to absorption enhancement of black carbon in the atmosphere		2
12	Chemical Characterization and Source Apportionment of Organic Aerosols in the Coastal City of Chennai, India: Impact of Marine Air Masses on Aerosol Chemical Composition and Potential for Secondary Organic Aerosol Formation. <i>ACS Earth and Space Chemistry</i> ,	3.2	1
11	High efficacy of face masks explained by characteristic regimes of airborne SARS-CoV-2 virus abundance		1
10	Evaluation of size segregation of elemental carbon emission in Europe: influence on atmospheric long-range transportation		1
9	Supplementary material to "Mixing State of Refractory Black Carbon of the North China Plain Regional Aerosol Combining a Single Particle Soot Photometer and a Volatility Tandem Differential Mobility Analyzer"		2
8	Cloud condensation nuclei in polluted air and biomass burning smoke near the mega-city Guangzhou, China [Part 2: Size-resolved aerosol chemical composition, diurnal cycles, and externally mixed CCN-inactive soot particles		2
7	3-D model simulations of dynamical and microphysical interactions in pyro-convective clouds under idealized conditions		1
6	Assessment of cloud supersaturation by aerosol particle and cloud condensation nuclei (CCN) measurements		1
5	Mapping Asian anthropogenic emissions of non-methane volatile organic compounds to multiple chemical mechanisms		1

4	Highly Resolved Dynamic Emissions of Air Pollutants and Greenhouse Gas CO ₂ during COVID-19 Pandemic in East China. <i>Environmental Science and Technology Letters</i> ,	11	3
3	Synthesis and bioevaluation of radioiodated nitroimidazole-based hypoxia imaging agents containing different charged substituents. <i>Journal of Radioanalytical and Nuclear Chemistry</i> ,1	1.5	
2	Elevated formation of particulate nitrate from N ₂ O ₅ hydrolysis in the Yangtze River Delta region from 2011 to 2019. <i>Geophysical Research Letters</i> ,	4.9	0
1	Global cycling and climate effects of aeolian dust controlled by biological soil crusts. <i>Nature Geoscience</i> ,	18.3	1