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Direct observations of atmospheric aerosol nucleation

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808	References. 2012 , 12, 169-191		
807	Comparing simulated and experimental molecular cluster distributions. 2013 , 165, 75-89		27
806	Assessment of binding energies of atmospherically relevant clusters. 2013 , 15, 16442-5		103
805	Case studies of new particle formation and evaporation processes in the western Mediterranean regional background. 2013 , 81, 651-659		18
804	Atmospheric nanoparticles and climate change. 2013 , 59, 4006-4019		8
803	Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere. 2013 , 502, 359-63		585
802	Quantitative and time-resolved nanoparticle composition measurements during new particle formation. 2013 , 165, 25-43		27
801	How do organic vapors contribute to new-particle formation?. 2013 , 165, 91-104		84
800	Nucleation events for the formation of charged aerosol particles at a tropical station [Preliminary results. 2013 , 132-133, 239-252		25
799	Atmospheric science. The aerosol nucleation puzzle. <i>Science</i> , 2013 , 339, 911-2	33.3	34
798	Fundamental and overtone vibrational spectroscopy, enthalpy of hydrogen bond formation and equilibrium constant determination of the methanol-dimethylamine complex. 2013 , 15, 10194-206		65
797	Interaction of glycine with common atmospheric nucleation precursors. 2013 , 117, 12990-7		43
796	Vibrational spectra and fragmentation pathways of size-selected, D2-tagged ammonium/methylammonium bisulfate clusters. 2013 , 117, 13265-74		28
795	Real-time monitoring of emissions from monoethanolamine-based industrial scale carbon capture facilities. 2013 , 47, 14306-14		45
794	Performance of diethylene glycol-based particle counters in the sub-3 nm size range. 2013 , 6, 1793-1804		54
793	Characterisation of organic contaminants in the CLOUD chamber at CERN. 2013 ,		1

792	COMPASS [COMparative Particle formation in the Atmosphere using portable Simulation chamber Study techniques. 2013 , 6, 3407-3423	3
791	Sub 3 nm particle size and composition dependent response of a nano-CPC battery. 2013 ,	
790	Free energy barrier in the growth of sulfuric acid-ammonia and sulfuric acid-dimethylamine clusters. 2013 , 139, 084312	118
789	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. 2013 , 110, 17223-8	249
788	Semi-empirical parameterization of size-dependent atmospheric nanoparticle growth in continental environments. 2013 , 13, 7665-7682	21
787	Identification and quantification of particle growth channels during new particle formation. 2013 , 13, 10215-10225	16
786	Estimating the contribution of ion-ion recombination to sub-2 nm cluster concentrations from atmospheric measurements. 2013 , 13, 11391-11401	17
785	Long-term observations of cluster ion concentration, sources and sinks in clear sky conditions at the high-altitude site of the Puy de Dôme, France. 2013 , 13, 11573-11594	16
784	Growth of atmospheric nano-particles by heterogeneous nucleation of organic vapor. 2013 , 13, 6523-6531	14
783	Formation and growth of nucleated particles into cloud condensation nuclei: model-measurement comparison. 2013 , 13, 7645-7663	67
782	Estimating neutral nanoparticle steady-state size distribution and growth according to measurements of intermediate air ions. 2013 , 13, 9597-9603	2
781	Marine nanogels as a source of atmospheric nanoparticles in the high Arctic. 2013 , 40, 3738-3743	48
780	Photooxidation of dimethylsulfide (DMS) in the Canadian Arctic. 2013 , 10, 6793-6806	11
779	Terpenoid emissions from fully grown east Siberian <i>Larix cajanderi</i> trees. 2013 , 10, 4705-4719	8
778	Where do herbivore-induced plant volatiles go?. 2013 , 4, 185	89
777	New foliage growth is a significant, unaccounted source for volatiles in boreal evergreen forests. 2014 , 11, 1331-1344	47
776	Sub-3 nm particle size and composition dependent response of a nano-CPC battery. 2014 , 7, 689-700	64
775	Difference in particle formation at a mountaintop location during spring and summer: Implications for the role of sulfuric acid and organics in nucleation. 2014 , 119, 12,246-12,255	14

774	Cloud forming potential of oligomers relevant to secondary organic aerosols. 2014 , 41, 6538-6545	17
773	Atmospheric processes on ice nanoparticles in molecular beams. 2014 , 2, 4	14
772	Comparing three vegetation monoterpene emission models to measured gas concentrations with a model of meteorology, air chemistry and chemical transport. 2014 , 11, 5425-5443	23
771	Trimethylamine emissions in animal husbandry. 2014 , 11, 5073-5085	34
770	Rapid autoxidation forms highly oxidized RO ₂ radicals in the atmosphere. 2014 , 53, 14596-600	147
769	Contrasting responses of silver birch VOC emissions to short- and long-term herbivory. 2014 , 34, 241-52	27
768	Observations of new particle formation at two distinct Indian subcontinental urban locations. 2014 , 96, 370-379	45
767	Atmospheric science: Involatile particles from rapid oxidation. 2014 , 506, 442-3	10
766	UV polarization lidar for remote sensing new particles formation in the atmosphere. 2014 , 22 Suppl 3, A1009-22	14
765	Water and formic acid aggregates: a molecular dynamics study. 2014 , 141, 104701	9
764	Positively Charged Phosphorus as a Hydrogen Bond Acceptor. 2014 , 5, 4225-31	82
763	Number and size distribution of airborne nanoparticles during summertime in Kuwait: first observations from the Middle East. 2014 , 48, 13634-43	25
762	Insight into acid-base nucleation experiments by comparison of the chemical composition of positive, negative, and neutral clusters. 2014 , 48, 13675-84	40
761	New Particle Formation and Growth in an Isoprene-Dominated Ozark Forest: From Sub-5 nm to CCN-Active Sizes. 2014 , 48, 1285-1298	28
760	Characterisation of organic contaminants in the CLOUD chamber at CERN. 2014 , 7, 2159-2168	32
759	The charging of neutral dimethylamine and dimethylamine-sulphuric acid clusters using protonated acetone. 2014 ,	
758	Changes in biogeochemistry and carbon fluxes in a boreal forest after the clear-cutting and partial burning of slash. 2014 , 188, 33-44	58
757	Changes in concentration of nitrogen-containing compounds in 10nm particles of boreal forest atmosphere at snowmelt. 2014 , 70, 1-10	5

756	Chemistry of atmospheric nucleation: on the recent advances on precursor characterization and atmospheric cluster composition in connection with atmospheric new particle formation. 2014 , 65, 21-37	178
755	Estimating atmospheric nucleation rates from size distribution measurements: Analytical equations for the case of size dependent growth rates. 2014 , 69, 13-20	12
754	Oxidation products of biogenic emissions contribute to nucleation of atmospheric particles. <i>Science</i> , 2014 , 344, 717-21	33-3 375
753	Infrequent occurrence of new particle formation at a semi-rural location, Gadanki, in tropical Southern India. 2014 , 94, 264-273	20
752	Ultrafine particles in cities. 2014 , 66, 1-10	374
751	Infrared studies of the reaction of methanesulfonic acid with trimethylamine on surfaces. 2014 , 48, 323-30	15
750	High-Resolution Mobility and Mass Spectrometry of Negative Ions Produced in a ²⁴¹ Am Aerosol Charger. 2014 , 48, 261-270	32
749	Neutral molecular cluster formation of sulfuric acid-dimethylamine observed in real time under atmospheric conditions. 2014 , 111, 15019-24	155
748	The Biogeochemical Impacts of Forests and the Implications for Climate Change Mitigation. 2014 ,	
747	Observations on the formation, growth and chemical composition of aerosols in an urban environment. 2014 , 48, 6588-96	16
746	Growth rates of atmospheric molecular clusters based on appearance times and collision-evaporation fluxes: Growth by monomers. 2014 , 78, 55-70	12
745	An iodide-adduct high-resolution time-of-flight chemical-ionization mass spectrometer: application to atmospheric inorganic and organic compounds. 2014 , 48, 6309-17	288
744	Computational approaches for efficiently modelling of small atmospheric clusters. 2014 , 615, 26-29	53
743	Computational study of the Rayleigh light scattering properties of atmospheric pre-nucleation clusters. 2014 , 16, 10883-90	24
742	Theoretical study on stable small clusters of oxalic acid with ammonia and water. 2014 , 118, 1451-68	33
741	Measurement of sub-2 nm clusters of pristine and composite metal oxides during nanomaterial synthesis in flame aerosol reactors. 2014 , 86, 7523-9	22
740	Hydration of the sulfuric acid-methylamine complex and implications for aerosol formation. 2014 , 118, 7430-41	43
739	Number size distribution of aerosols at Mt. Huang and Nanjing in the Yangtze River Delta, China: Effects of air masses and characteristics of new particle formation. 2014 , 150, 42-56	38

738	Aerosol fast flow reactor for laboratory studies of new particle formation. 2014 , 78, 30-40	17
737	The formation of highly oxidized multifunctional products in the ozonolysis of cyclohexene. 2014 , 136, 15596-606	187
736	Recycling concrete: An undiscovered source of ultrafine particles. 2014 , 90, 51-58	28
735	Enhancement of the hygroscopicity parameter kappa of rural aerosols in northern Taiwan by anthropogenic emissions. 2014 , 84, 78-87	16
734	Benchmarking ab initio binding energies of hydrogen-bonded molecular clusters based on FTIR spectroscopy. 2014 , 118, 5316-22	48
733	Molecular interaction of pinic acid with sulfuric acid: exploring the thermodynamic landscape of cluster growth. 2014 , 118, 7892-900	57
732	Ice crystallization in ultrafine water-salt aerosols: nucleation, ice-solution equilibrium, and internal structure. 2014 , 136, 8081-93	53
731	Single-nanocrystal reaction trajectories reveal sharp cooperative transitions. 2014 , 14, 987-92	45
730	The effect of fluorine substitution in alcohol-amine complexes. 2014 , 16, 22882-91	57
729	Sub-3 nm particles observed at the coastal and continental sites in the United States. 2014 , 119, 860-879	22
728	A large source of low-volatility secondary organic aerosol. 2014 , 506, 476-9	1078
727	Suppression of new particle formation from monoterpene oxidation by NO _x . 2014 , 14, 2789-2804	51
726	Impacts of new particle formation on aerosol cloud condensation nuclei (CCN) activity in Shanghai: case study. 2014 , 14, 11353-11365	27
725	Molecular constraints on particle growth during new particle formation. 2014 , 41, 6045-6054	24
724	Polluted dust promotes new particle formation and growth. 2014 , 4, 6634	104
723	Submicron aerosols at thirteen diversified sites in China: size distribution, new particle formation and corresponding contribution to cloud condensation nuclei production. 2014 , 14, 10249-10265	72
722	Analysis of feedbacks between nucleation rate, survival probability and cloud condensation nuclei formation. 2014 , 14, 5577-5597	55
721	Ion-particle interactions during particle formation and growth at a coniferous forest site in central Europe. 2014 , 14, 10547-10563	13

720	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. 2014 , 14, 11011-11029	9
719	Analysis of nucleation events in the European boundary layer using the regional aerosol climate model REMO-HAM with a solar radiation-driven OH-proxy. 2014 , 14, 11711-11729	11
718	Forest canopy interactions with nucleation mode particles. 2014 , 14, 11985-11996	12
717	Chemical composition and mass size distribution of PM ₁ at an elevated site in central east China. 2014 , 14, 12237-12249	38
716	Aerosols and nucleation in eastern China: first insights from the new SORPES-NJU station. 2014 , 14, 2169-218363	
715	The direct and indirect radiative effects of biogenic secondary organic aerosol. 2014 , 14, 447-470	146
714	A naming convention for atmospheric organic aerosol. 2014 , 14, 5825-5839	68
713	Chemistry of new particle growth in mixed urban and biogenic emissions – Insights from CARES. 2014 , 14, 6477-6494	42
712	Hygroscopic properties of newly formed ultrafine particles at an urban site surrounded by deciduous forest (Sapporo, northern Japan) during the summer of 2011. 2014 , 14, 7519-7531	4
711	Spatial extension of nucleating air masses in the Carpathian Basin. 2014 , 14, 8841-8848	18
710	Climatology of new particle formation at Izaña mountain GAW observatory in the subtropical North Atlantic. 2014 , 14, 3865-3881	27
709	Enhancement of atmospheric H ₂ SO ₄ / H ₂ O nucleation: organic oxidation products versus amines. 2014 , 14, 751-764	42
708	Production and growth of new particles during two cruise campaigns in the marginal seas of China. 2014 , 14, 7941-7951	20
707	Electrical charging changes the composition of sulfuric acid–ammonia/dimethylamine clusters. 2014 , 14, 7995-8007	47
706	Growth of ice nanoparticles via uptake of individual molecules: pickup cross sections. 2014 , 488, 102016	
705	Schnelle Autoxidation bildet hochoxidierte RO ₂ -Radikale in der Atmosphäre. 2014 , 126, 14825-14829	7
704	Mixing state and hygroscopicity of dust and haze particles before leaving Asian continent. 2014 , 119, 1044-1059	52
703	Reevaluating the contribution of sulfuric acid and the origin of organic compounds in atmospheric nanoparticle growth. 2015 , 42, 10,486	21

702	Organic aerosol processing in tropical deep convective clouds: Development of a new model (CRM-ORG) and implications for sources of particle number. 2015 , 120, 10,441	12
701	Extrapolating particle concentration along the size axis in the nanometer size range requires discrete rate equations. 2015 , 90, 1-13	3
700	On the properties and atmospheric implication of amine-hydrated clusters. 2015 , 5, 91500-91515	11
699	Introduction: The Pan-Eurasian Experiment (PEEX) [multidisciplinary, multiscale and multicomponent research and capacity-building initiative. 2015 , 15, 13085-13096	35
698	Contribution from biogenic organic compounds to particle growth during the 2010 BEACHON-ROCS campaign in a Colorado temperate needleleaf forest. 2015 , 15, 8643-8656	11
697	Strong atmospheric new particle formation in winter in urban Shanghai, China. 2015 , 15, 1769-1781	116
696	Major contribution of neutral clusters to new particle formation at the interface between the boundary layer and the free troposphere. 2015 , 15, 3413-3428	32
695	Total sulfate vs. sulfuric acid monomer concentrations in nucleation studies. 2015 , 15, 3429-3443	15
694	Formation of highly oxidized multifunctional compounds: autoxidation of peroxy radicals formed in the ozonolysis of alkenes [deduced from structure-product relationships. 2015 , 15, 6745-6765	134
693	Experimental investigation of ion-ion recombination under atmospheric conditions. 2015 , 15, 7203-7216	33
692	Particulate matter, air quality and climate: lessons learned and future needs. 2015 , 15, 8217-8299	462
691	Airborne measurements of new particle formation in the free troposphere above the Mediterranean Sea during the HYMEX campaign. 2015 , 15, 10203-10218	29
690	Thermodynamics of the formation of sulfuric acid dimers in the binary (H ₂ SO ₄ :H ₂ O) and ternary (H ₂ SO ₄ :NH ₃ :H ₂ O) system. 2015 , 15, 10701-10721	22
689	Relating the hygroscopic properties of submicron aerosol to both gas- and particle-phase chemical composition in a boreal forest environment. 2015 , 15, 11999-12009	10
688	Biotic stress accelerates formation of climate-relevant aerosols in boreal forests. 2015 , 15, 12139-12157	40
687	Technical note: New particle formation event forecasts during PEGASOS-Zeppelin Northern mission 2013 in Hyytiähti, Finland. 2015 , 15, 12385-12396	14
686	Impact of gas-to-particle partitioning approaches on the simulated radiative effects of biogenic secondary organic aerosol. 2015 , 15, 12989-13001	28
685	Insights into the growth of newly formed particles in a subtropical urban environment. 2015 , 15, 13475-13485	3

684	Aerosol size distribution and new particle formation in the western Yangtze River Delta of China: 2 years of measurements at the SORPES station. 2015 , 15, 12445-12464	77
683	Size-resolved cloud condensation nuclei concentration measurements in the Arctic: two case studies from the summer of 2008. 2015 , 15, 13803-13817	8
682	On the derivation of particle nucleation rates from experimental formation rates. 2015 , 15, 4063-4075	25
681	Elemental composition and clustering behaviour of pinene oxidation products for different oxidation conditions. 2015 , 15, 4145-4159	14
680	Iodine observed in new particle formation events in the Arctic atmosphere during ACCACIA. 2015 , 15, 5599-5609	76
679	Technical Note: Using DEG-CPCs at upper tropospheric temperatures. 2015 , 15, 7547-7555	11
678	Atmospheric ions and new particle formation events at a tropical location, Pune, India. 2015 , 141, 3140-3156	17
677	Geographical and diurnal features of amine-enhanced boundary layer nucleation. 2015 , 120, 9606-9624	24
676	Ideas and perspectives: on the emission of amines from terrestrial vegetation in the context of new atmospheric particle formation. 2015 , 12, 3225-3240	16
675	A Review of Aerosol Nanoparticle Formation from Ions. 2015 , 32, 57-74	11
674	The charging of neutral dimethylamine and dimethylamine-sulfuric acid clusters using protonated acetone. 2015 , 8, 2577-2588	1
673	Ultrafine particles over Eastern Australia: an airborne survey. 2015 , 67, 25308	15
672	Production of extremely low volatile organic compounds from biogenic emissions: Measured yields and atmospheric implications. 2015 , 112, 7123-8	260
671	On the composition of ammonia-sulfuric-acid ion clusters during aerosol particle formation. 2015 , 15, 55-78	68
670	Role of ammonia in forming secondary aerosols from gasoline vehicle exhaust. 2015 , 58, 1377-1384	26
669	Sub-3 nm Particle Detection with Commercial TSI 3772 and Airmodus A20 Fine Condensation Particle Counters. 2015 , 49, 674-681	24
668	Concentration, Size Distribution, and Formation of Trimethylammonium and Dimethylammonium Ions in Atmospheric Particles over Marginal Seas of China*. 2015 , 72, 3487-3498	24
667	Fragmentation of HCl-water clusters upon ionization: Non-adiabatic ab initio dynamics study. 2015 , 622, 80-85	15

666	Characteristics of new particle formation events in Nanjing, China: Effect of water-soluble ions. 2015 , 108, 32-40	27
665	The molecular identification of organic compounds in the atmosphere: state of the art and challenges. 2015 , 115, 3919-83	300
664	Sulfuric acid nucleation: An experimental study of the effect of seven bases. 2015 , 120, 1933-1950	123
663	Highly Oxidized Multifunctional Organic Compounds Observed in Tropospheric Particles: A Field and Laboratory Study. 2015 , 49, 7754-61	110
662	Nature of CTAB/Water/Chloroform Reverse Micelles at Above- and Subzero Temperatures Studied by NMR and Molecular Dynamics Simulations. 2015 , 31, 8284-93	13
661	Field measurements of biogenic volatile organic compounds in the atmosphere by dynamic solid-phase microextraction and portable gas chromatography-mass spectrometry. 2015 , 115, 214-222	25
660	Reactivity of Hydrated Electron in Finite Size System: Sodium Pickup on Mixed N ₂ O-Water Nanoparticles. 2015 , 6, 2865-9	17
659	An approach to investigate new particle formation in the vertical direction on the basis of high time-resolution measurements at ground level and sea level. 2015 , 102, 366-375	10
658	Techniques and instruments used for real-time analysis of atmospheric nanoscale molecular clusters: A review. 2015 , 1, 33-38	6
657	Comparison of daytime and nighttime new particle growth at the HKUST supersite in Hong Kong. 2015 , 49, 7170-8	24
656	Modeling the Charging of Highly Oxidized Cyclohexene Ozonolysis Products Using Nitrate-Based Chemical Ionization. 2015 , 119, 6339-45	63
655	Properties and Atmospheric Implication of Methylamine-Sulfuric Acid-Water Clusters. 2015 , 119, 8657-66	34
654	Computational Study of the Clustering of a Cyclohexene Autoxidation Product C ₆ H ₈ O ₇ with Itself and Sulfuric Acid. 2015 , 119, 8414-21	37
653	New particle formation at ground level and in the vertical column over the Barcelona area. 2015 , 164-165, 118-130	29
652	A long-term study of new particle formation in a coastal environment: meteorology, gas phase and solar radiation implications. 2015 , 511, 723-37	16
651	Rayleigh light scattering properties of atmospheric molecular clusters consisting of sulfuric acid and bases. 2015 , 17, 15701-9	9
650	Scanning supersaturation condensation particle counter applied as a nano-CCN counter for size-resolved analysis of the hygroscopicity and chemical composition of nanoparticles. 2015 , 8, 2161-2172	14
649	Roles of SO ₂ oxidation in new particle formation events. 2015 , 30, 90-101	7

648	Chemistry and the Linkages between Air Quality and Climate Change. 2015 , 115, 3856-97	205
647	Implications of ammonia emissions from post-combustion carbon capture for airborne particulate matter. 2015 , 49, 5142-50	8
646	Sulphuric acid and aerosol particle production in the vicinity of an oil refinery. 2015 , 119, 156-166	25
645	Images and properties of individual nucleated particles. 2015 , 123, 166-170	5
644	Gas Phase Detection of the NH-P Hydrogen Bond and Importance of Secondary Interactions. 2015 , 119, 10988-98	47
643	Sizing of neutral sub 3nm tungsten oxide clusters using Airmodus Particle Size Magnifier. 2015 , 87, 53-62	32
642	Hydration of a sulfuric acidoxalic acid complex: acid dissociation and its atmospheric implication. 2015 , 5, 48638-48646	43
641	Insights into the Formation and Evolution of Individual Compounds in the Particulate Phase during Aromatic Photo-Oxidation. 2015 , 49, 13168-78	28
640	Growth of Ammonium Bisulfate Clusters by Adsorption of Oxygenated Organic Molecules. 2015 , 119, 11191-8	11
639	Organic Emissions from a Wood Stove and a Pellet Stove Before and After Simulated Atmospheric Aging. 2015 , 49, 1037-1050	26
638	Structures, Hydration, and Electrical Mobilities of Bisulfate Ion-Sulfuric Acid-Ammonia/Dimethylamine Clusters: A Computational Study. 2015 , 119, 9670-9	28
637	New particle formation and growth from methanesulfonic acid, trimethylamine and water. 2015 , 17, 13699-709	67
636	Development of a new corona discharge based ion source for high resolution time-of-flight chemical ionization mass spectrometer to measure gaseous H ₂ SO ₄ and aerosol sulfate. 2015 , 119, 167-173	14
635	Connection of organics to atmospheric new particle formation and growth at an urban site of Beijing. 2015 , 103, 7-17	43
634	Measurement of atmospheric amines and ammonia using the high resolution time-of-flight chemical ionization mass spectrometry. 2015 , 102, 249-259	97
633	Cryogenic ion trap vibrational spectroscopy of hydrogen-bonded clusters relevant to atmospheric chemistry. 2015 , 34, 1-34	140
632	Ultrafine particles over Germany: an aerial survey. 2016 , 68, 29250	7
631	Growth of atmospheric clusters involving cluster-cluster collisions: comparison of different growth rate methods. 2016 ,	

630	Simple proxies for estimating the concentrations of monoterpenes and their oxidation products at a boreal forest site. 2016,	
629	From ionising radiation to air ion formation in the lower atmosphere. 2016,	
628	Measurements of biogenic volatile organic compounds at a grazed savannah-grassland-agriculture landscape in South Africa. 2016,	1
627	A global view on atmospheric concentrations of sub-3 nm particles measured with the Particle Size Magnifier. 2016,	1
626	Vertical and horizontal variation of aerosol number size distribution in the boreal environment. 2016,	12
625	Long-term analysis of clear-sky new particle formation events and non-events in Hyytiälä 2016,	
624	Challenges associated with the sampling and analysis of organosulfur compounds in air using real-time PTR-ToF-MS and offline GC-FID. 2016, 9, 1325-1340	20
623	How to reliably detect molecular clusters and nucleation mode particles with Neutral cluster and Air Ion Spectrometer (NAIS). 2016, 9, 3577-3605	30
622	Modelling the dispersion of particle numbers in five European cities. 2016, 9, 451-478	33
621	Coupling an aerosol box model with one-dimensional flow: a tool for understanding observations of new particle formation events. 2016, 68, 29706	14
620	A laser-induced fluorescence instrument for aircraft measurements of sulfur dioxide in the upper troposphere and lower stratosphere. 2016, 9, 4601-4613	15
619	. 2016,	20
618	A new high-transmission inlet for the Caltech nano-RDMA for size distribution measurements of sub-3 nm ions at ambient concentrations. 2016, 9, 2709-2720	13
617	Potential of needle trap microextraction coupled portable gas chromatography-mass spectrometry for measurement of atmospheric volatile compounds. 2016, 9, 3661-3671	13
616	Operation of the Airmodus A11 nano Condensation Nucleus Counter at various inlet pressures and various operation temperatures, and design of a new inlet system. 2016, 9, 2977-2988	28
615	Ion mobility spectrometry-mass spectrometry (IMS/MS) for on- and offline analysis of atmospheric gas and aerosol species. 2016, 9, 3245-3262	42
614	BAECC: A Field Campaign to Elucidate the Impact of Biogenic Aerosols on Clouds and Climate. 2016 , 97, 1909-1928	57
613	Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory. 2016, 121, 1752-1775	80

612	Spiers Memorial Lecture. Introductory lecture: chemistry in the urban atmosphere. 2016 , 189, 9-29	5
611	Hydroxyl radical-induced formation of highly oxidized organic compounds. 2016 , 7, 13677	124
610	Effect of dimethylamine on the gas phase sulfuric acid concentration measured by Chemical Ionization Mass Spectrometry. 2016 , 121, 3036-3049	13
609	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. 2016 , 121, 12,377	54
608	Droplet formation and growth inside a polymer network: A molecular dynamics simulation study. 2016 , 144, 134502	9
607	Enhanced Volatile Organic Compounds emissions and organic aerosol mass increase the oligomer content of atmospheric aerosols. 2016 , 6, 35038	64
606	Isoprene suppression of new particle formation: Potential mechanisms and implications. 2016 , 121, 14,621	26
605	The role of low-volatility organic compounds in initial particle growth in the atmosphere. 2016 , 533, 527-31	388
604	Atmospheric science: Unexpected player in particle formation. 2016 , 533, 478-9	12
603	Ion-induced nucleation of pure biogenic particles. 2016 , 533, 521-6	377
602	New particle formation in the free troposphere: A question of chemistry and timing. <i>Science</i> , 2016 , 352, 1109-12	33:3 264
601	Infrared spectroscopic probing of dimethylamine clusters in an Ar matrix. 2016 , 40, 51-9	16
600	Theoretical investigation of the hydrogen bond interactions of methanol and dimethylamine with hydrazone and its derivatives. 2016 , 27, 1241-1253	11
599	Reactions of Atmospheric Particulate Stabilized Criegee Intermediates Lead to High-Molecular-Weight Aerosol Components. 2016 , 50, 5702-10	43
598	Diurnal patterns in Scots pine stem oleoresin pressure in a boreal forest. 2016 , 39, 527-38	19
597	Deprotonated Dicarboxylic Acid Homodimers: Hydrogen Bonds and Atmospheric Implications. 2016 , 120, 2342-9	11
596	An analytical method for the field investigation of environmental amines released by industrial processes. 2016 , 102, 328-335	2
595	Hydration of oxalic acid-ammonia complex: atmospheric implication and Rayleigh-scattering properties. 2016 , 6, 46582-46593	15

594	Ion mobility spectrometry-mass spectrometry examination of the structures, stabilities, and extents of hydration of dimethylamine-sulfuric acid clusters. 2016 , 18, 22962-72	30
593	Tip-Enhanced Raman Spectroscopy of Atmospherically Relevant Aerosol Nanoparticles. 2016 , 88, 9766-9772	31
592	How salt lakes affect atmospheric new particle formation: A case study in Western Australia. 2016 , 573, 985-995	4
591	Observation of aerosol size distribution and new particle formation at a coastal city in the Yangtze River Delta, China. 2016 , 565, 1175-1184	15
590	Emission, Transformation, and Fate of Nanoparticles in the Atmosphere. 2016 , 205-223	2
589	Intense secondary aerosol formation due to strong atmospheric photochemical reactions in summer: observations at a rural site in eastern Yangtze River Delta of China. 2016 , 571, 1454-66	72
588	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. 2016 , 113, 12053-12058	79
587	Formation of the H ₂ SO ₄ [HSO ₄] dimer in the atmosphere as a function of conditions: a simulation study. 2016 , 114, 3475-3482	4
586	Ultrafine Particles Pollution and Measurements. 2016 , 73, 369-390	4
585	Long-term observation of air pollution-weather/climate interactions at the SORPES station: a review and outlook. 2016 , 10, 1	48
584	Aerosol Chemistry Resolved by Mass Spectrometry: Insights into Particle Growth after Ambient New Particle Formation. 2016 , 50, 10814-10822	16
583	Effect of Conformers on Free Energies of Atmospheric Complexes. 2016 , 120, 8613-8624	24
582	Theoretical Studies on Reactions of OH with H ₂ SO ₄ ·H ₂ O Complex and NH ₂ with H ₂ SO ₄ in the Presence of Water. 2016 , 1, 1421-1430	15
581	Key features of new particle formation events at background sites in China and their influence on cloud condensation nuclei. 2016 , 10, 1	24
580	The influence of emission control on particle number size distribution and new particle formation during China's V-Day parade in 2015. 2016 , 573, 409-419	19
579	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO. 2016 , 537, 532-534	155
578	Characteristics of dimethylaminium and trimethylaminium in atmospheric particles ranging from supermicron to nanometer sizes over eutrophic marginal seas of China and oligotrophic open oceans. 2016 , 572, 813-824	22
577	Hydrogen bonding in cyclic complexes of carboxylic acid·sulfuric acid and their atmospheric implications. 2016 , 6, 71733-71743	23

576	A conceptual framework for mixing structures in individual aerosol particles. 2016 , 121, 13,784-13,798	78
575	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. 2016 , 539, 416-419	83
574	Contribution of new particle formation to the total aerosol concentration at the high-altitude site Jungfraujoch (3580m asl, Switzerland). 2016 , 121, 11,692-11,711	14
573	Rupturing of Biological Spores As a Source of Secondary Particles in Amazonia. 2016 , 50, 12179-12186	32
572	Accurate thermodynamic properties of gas phase hydrogen bonded complexes. 2016 , 18, 23831-9	17
571	A chamber study of the influence of boreal BVOC emissions and sulfuric acid on nanoparticle formation rates at ambient concentrations. 2016 , 16, 1955-1970	6
570	Measurements of biogenic volatile organic compounds at a grazed savannah grassland agricultural landscape in South Africa. 2016 , 16, 15665-15688	22
569	Using satellite-based measurements to explore spatiotemporal scales and variability of drivers of new particle formation. 2016 , 121, 12217-12235	5
568	Source characterization of highly oxidized multifunctional compounds in a boreal forest environment using positive matrix factorization. 2016 , 16, 12715-12731	71
567	Observation of new particle formation and measurement of sulfuric acid, ammonia, amines and highly oxidized organic molecules at a rural site in central Germany. 2016 , 16, 12793-12813	51
566	Simple proxies for estimating the concentrations of monoterpenes and their oxidation products at a boreal forest site. 2016 , 16, 13291-13307	21
565	How do air ions reflect variations in ionising radiation in the lower atmosphere in a boreal forest?. 2016 , 16, 14297-14315	10
564	High concentrations of sub-3nm clusters and frequent new particle formation observed in the Po Valley, Italy, during the PEGASOS 2012 campaign. 2016 , 16, 1919-1935	18
563	Nucleation and growth of sub-3 nm particles in the polluted urban atmosphere of a megacity in China. 2016 , 16, 2641-2657	42
562	Molecular corridors and parameterizations of volatility in the chemical evolution of organic aerosols. 2016 , 16, 3327-3344	90
561	Observation of viscosity transition in α -pinene secondary organic aerosol. 2016 , 16, 4423-4438	47
560	Growth of atmospheric clusters involving cluster-cluster collisions: comparison of different growth rate methods. 2016 , 16, 5545-5560	12
559	Synergistic use of Lagrangian dispersion and radiative transfer modelling with satellite and surface remote sensing measurements for the investigation of volcanic plumes: the Mount Etna eruption of 25 October 2013. 2016 , 16, 6841-6861	26

558	Using a combined power law and log-normal distribution model to simulate particle formation and growth in a mobile aerosol chamber. 2016 , 16, 7067-7090	3
557	Measurement, growth types and shrinkage of newly formed aerosol particles at an urban research platform. 2016 , 16, 7837-7851	28
556	Regional effect on urban atmospheric nucleation. 2016 , 16, 8715-8728	40
555	Indirect evidence of the composition of nucleation mode atmospheric particles in the high Arctic. 2016 , 121, 965-975	34
554	The versatile size analyzing nuclei counter (vSANC). 2016 , 50, 947-958	7
553	Quantitative analysis of aliphatic amines in urban aerosols based on online derivatization and high performance liquid chromatography. 2016 , 18, 796-801	10
552	Reactions of Methanesulfonic Acid with Amines and Ammonia as a Source of New Particles in Air. 2016 , 120, 1526-36	86
551	On secondary new particle formation in China. 2016 , 10, 1	39
550	Clustering of amines and hydrazines in atmospheric nucleation. 2016 , 472, 198-207	12
549	Incorporation of new particle formation and early growth treatments into WRF/Chem: Model improvement, evaluation, and impacts of anthropogenic aerosols over East Asia. 2016 , 124, 262-284	27
548	Approximate analytical solutions to the condensation-coagulation equation of aerosols. 2016 , 50, 578-590	1
547	Coupled Cluster Evaluation of the Stability of Atmospheric Acid-Base Clusters with up to 10 Molecules. 2016 , 120, 621-30	62
546	What Can the Kinetics of Amyloid Fibril Formation Tell about Off-pathway Aggregation?. 2016 , 291, 2018-2032	33
545	The HO ₂ + (H ₂ O) _n + O ₃ reaction: an overview and recent developments. 2016 , 70, 1	9
544	Probing the early stages of solvation of cis-pinate dianions by water, acetonitrile, and methanol: a photoelectron spectroscopy and theoretical study. 2016 , 18, 3628-37	10
543	Can Highly Oxidized Organics Contribute to Atmospheric New Particle Formation?. 2016 , 120, 1452-8	30
542	Review on recent progress in observations, source identifications and countermeasures of PM _{2.5} . 2016 , 86, 150-70	184
541	Dimethylamine Addition to Formaldehyde Catalyzed by a Single Water Molecule: A Facile Route for Atmospheric Carbinolamine Formation and Potential Promoter of Aerosol Growth. 2016 , 120, 1358-68	26

540	Cluster Model Studies of Anion and Molecular Specificities via Electrospray Ionization Photoelectron Spectroscopy. 2017 , 121, 1389-1401	37
539	The high charge fraction of flame-generated particles in the size range below 3 nm measured by enhanced particle detectors. 2017 , 176, 72-80	24
538	Oxygenate-Induced Tuning of Aldehyde-Amine Reactivity and Its Atmospheric Implications. 2017 , 121, 1022-1031	11
537	The Role of Oxalic Acid in New Particle Formation from Methanesulfonic Acid, Methylamine, and Water. 2017 , 51, 2124-2130	38
536	Atmospheric gas-to-particle conversion: why NPF events are observed in megacities?. 2017 , 200, 271-288	84
535	Global sources, emissions, transport and deposition of dust and sand and their effects on the climate and environment: a review. 2017 , 11, 1	26
534	Forecasting ultrafine particle concentrations from satellite and in situ observations. 2017 , 122, 1828-1837	4
533	Regional and local new particle formation events observed in the Yangtze River Delta region, China. 2017 , 122, 2389-2402	31
532	Hygroscopic properties of urban aerosols and their cloud condensation nuclei activities measured in Seoul during the MAPS-Seoul campaign. 2017 , 153, 217-232	17
531	Contribution of methane sulfonic acid to new particle formation in the atmosphere. 2017 , 174, 689-699	40
530	First measurements of the number size distribution of 10 nm aerosol particles released from manufacturing processes in a cleanroom environment. 2017 , 51, 685-693	9
529	Laboratory observations of temperature and humidity dependencies of nucleation and growth rates of sub-3 nm particles. 2017 , 122, 1919-1929	20
528	Solar eclipse demonstrating the importance of photochemistry in new particle formation. 2017 , 7, 45707	25
527	Structures and energetics of hydrated deprotonated cis-pinonic acid anion clusters and their atmospheric relevance. 2017 , 19, 10676-10684	14
526	Atmospheric Aerosols: Clouds, Chemistry, and Climate. 2017 , 8, 427-444	50
525	Production of neutral molecular clusters by controlled neutralization of mobility standards. 2017 , 51, 946-955	5
524	Effect of Bisulfate, Ammonia, and Ammonium on the Clustering of Organic Acids and Sulfuric Acid. 2017 , 121, 4812-4824	28
523	Cluster formation mechanisms of titanium dioxide during combustion synthesis: Observation with an API-TOF. 2017 , 51, 1071-1081	13

522	What Is Required for Highly Oxidized Molecules To Form Clusters with Sulfuric Acid?. 2017 , 121, 4578-4587	43
521	Introductory lecture: atmospheric chemistry in the Anthropocene. 2017 , 200, 11-58	15
520	Ambient observations of dimers from terpene oxidation in the gas phase: Implications for new particle formation and growth. 2017 , 44, 2958-2966	54
519	Hydrogen bond docking site competition in methyl esters. 2017 , 181, 122-130	9
518	Proton Transfer in Mixed Clusters of Methanesulfonic Acid, Methylamine, and Oxalic Acid: Implications for Atmospheric Particle Formation. 2017 , 121, 2377-2385	29
517	Subtle differences in the hydrogen bonding of alcohol to divalent oxygen and sulfur. 2017 , 667, 146-153	28
516	Atmospheric implication of the hydrogen bonding interaction in hydrated clusters of HONO and dimethylamine in the nighttime. 2017 , 19, 65-77	13
515	Basis set convergence of the binding energies of strongly hydrogen-bonded atmospheric clusters. 2017 , 19, 1122-1133	55
514	Condensation in One-Dimensional Dead-End Nanochannels. 2017 , 11, 304-313	41
513	Highly Oxygenated Molecules from Atmospheric Autoxidation of Hydrocarbons: A Prominent Challenge for Chemical Kinetics Studies. 2017 , 49, 821-831	32
512	Direct observation of new particle formation during ozonolysis of isoprene and ethene competing against the growth of preexisting particles. 2017 , 170, 149-155	5
511	Elucidating the Limiting Steps in Sulfuric Acid-Base New Particle Formation. 2017 , 121, 8288-8295	35
510	Particle formation and growth from oxalic acid, methanesulfonic acid, trimethylamine and water: a combined experimental and theoretical study. 2017 , 19, 28286-28301	30
509	New Particle Formation and Growth Mechanisms in Highly Polluted Environments. 2017 , 3, 245-253	28
508	The growth mechanism of sulfuric acid clusters: Implication for the formation of cloud condensation nuclei. 2017 , 114, 169-179	3
507	The Influence of the Position of the Double Bond and Ring Size on the Stability of Hydrogen Bonded Complexes. 2017 , 7, 11310	14
506	Infrared-Vacuum Ultraviolet Spectroscopic and Theoretical Study of Neutral Methylamine Dimer. 2017 , 121, 7176-7182	15
505	Dimethyl Sulfoxide Complexes Detected at Ambient Conditions. 2017 , 121, 6046-6053	5

504	Basin-Scale Observations of Monoterpenes in the Arctic and Atlantic Oceans. 2017 , 51, 10449-10458	10
503	A tunable high-pass filter for simple and inexpensive size-segregation of sub-10-nm nanoparticles. 2017 , 7, 45678	5
502	On the sources of uncertainty in the sub-3 nm particle concentration measurement. 2017 , 112, 34-51	23
501	The effect of sub-zero temperature on the formation and composition of secondary organic aerosol from ozonolysis of alpha-pinene. 2017 , 19, 1220-1234	18
500	Molecular understanding of the interaction of methyl hydrogen sulfate with ammonia/dimethylamine/water. 2017 , 186, 331-340	13
499	Nanoparticles grown from methanesulfonic acid and methylamine: microscopic structures and formation mechanism. 2017 , 19, 31949-31957	8
498	Mechanisms of Atmospherically Relevant Cluster Growth. 2017 , 50, 1965-1975	28
497	Revealing isomerism in sodium-water clusters: Photoionization spectra of Na(HO) (n = 2-90). 2017 , 146, 244303	6
496	C1-C2 alkyl aminiums in urban aerosols: Insights from ambient and fuel combustion emission measurements in the Yangtze River Delta region of China. 2017 , 230, 12-21	18
495	Laboratory verification of Aerosol Diffusion Spectrometer and the application to ambient measurements of new particle formation. 2017 , 105, 10-23	16
494	Emission of 1.3-10 nm airborne particles from brake materials. 2017 , 51, 91-96	42
493	Characterization of particle number size distribution and new particle formation in Southern China. 2017 , 51, 342-351	11
492	Understanding aerosol formation mechanisms in a subtropical atmosphere impacted by biomass burning and agroindustry. 2017 , 183, 94-103	7
491	Observation of incipient particle formation during flame synthesis by tandem differential mobility analysis-mass spectrometry (DMA-MS). 2017 , 36, 745-752	20
490	Characterization of particle number size distribution and new particle formation in an urban environment in Lanzhou, China. 2017 , 103, 53-66	16
489	Nucleation of Polyaniline Microspheres and Interconnected Nanostructures from Strongly Coupled Micelle-like Systems. 2017 , 121, 28506-28514	3
488	Perspective: Aerosol microphysics: From molecules to the chemical physics of aerosols. 2017 , 147, 220901	30
487	Features in air ions measured by an air ion spectrometer (AIS) at Dome C. 2017 , 17, 13783-13800	8

486	The role of highly oxygenated molecules (HOMs) in determining the composition of ambient ions in the boreal forest. 2017 , 17, 13819-13831	34
485	The role of ions in new particle formation in the CLOUD chamber. 2017 , 17, 15181-15197	32
484	Measurements of sub-3 nm particles using a particle size magnifier in different environments: from clean mountain top to polluted megacities. 2017 , 17, 2163-2187	56
483	Hygroscopic properties of aminium sulfate aerosols. 2017 , 17, 4369-4385	10
482	Simultaneous measurements of new particle formation at 1 s time resolution at a street site and a rooftop site. 2017 , 17, 9469-9484	14
481	Aerosol surface area concentration: a governing factor in new particle formation in Beijing. 2017 , 17, 12327-12340	52
480	A new balance formula to estimate new particle formation rate: reevaluating the effect of coagulation scavenging. 2017 , 17, 12659-12675	29
479	Estimation of atmospheric particle formation rates through an analytical formula: validation and application in Hyytiälä and Puijo, Finland. 2017 , 17, 13361-13371	1
478	Quantification of an atmospheric nucleation and growth process as a single source of aerosol particles in a city. 2017 , 17, 15007-15017	10
477	Long-term analysis of clear-sky new particle formation events and nonevents in Hyytiälä. 2017 , 17, 6227-6241	55
476	Heterogeneous uptake of ammonia and dimethylamine into sulfuric and oxalic acid particles. 2017 , 17, 6323-6339	14
475	Modeling the role of highly oxidized multifunctional organic molecules for the growth of new particles over the boreal forest region. 2017 , 17, 8887-8901	22
474	Infrared-Vacuum Ultraviolet Spectroscopic and Theoretical Study of Neutral Trimethylamine Dimer. 2017 , 30, 691-695	2
473	Aerosol Surface Area Concentration: a Governing Factor for New Particle Formation in Beijing. 2017 , 17, 12327-12340	52
472	8. Evaporation of droplets. The Kelvin and the coffee-stain effects. 2017 , 119-137	
471	Environmental analysis: Atmospheric samples. 2017 , 769-798	
470	Hydrogen Bonding Interaction between Atmospheric Gaseous Amides and Methanol. 2016 , 18, 115-121	16
469	A new balance formula to estimate new particle formation rate: reevaluating the effect of coagulation scavenging. 2017 , 17, 12659-12675	1

468	Quantitation of 11 alkylamines in atmospheric samples: separating structural isomers by ion chromatography. 2017 , 10, 1061-1078	15
467	Formation Mechanism of Atmospheric Ammonium Bisulfate: Hydrogen-Bond-Promoted Nearly Barrierless Reactions of SO with NH and H O. 2018 , 19, 967-972	8
466	Comparison of atmospheric new particle formation events in three Central European cities. 2018 , 178, 191-197	18
465	Effect of Residential Radon Decay Product Dose Factor Variability on Reporting of Dose. 2018 , 114, 398-407	9
464	The Silk Road agenda of the Pan-Eurasian Experiment (PEEX) program. 2018 , 2, 8-35	5
463	Bildung von Aufbauprodukten aus den Selbst- und Kreuzreaktionen von RO ₂ -Radikalen in der Atmosphäre. 2018 , 130, 3882-3886	2
462	Guanidine: A Highly Efficient Stabilizer in Atmospheric New-Particle Formation. 2018 , 122, 4717-4729	17
461	Vertically resolved concentration and liquid water content of atmospheric nanoparticles at the US DOE Southern Great Plains site. 2018 , 18, 311-326	21
460	Spatial distribution and occurrence probability of regional new particle formation events in eastern China. 2018 , 18, 587-599	20
459	Interaction of oxalic acid with methylamine and its atmospheric implications.. 2018 , 8, 7225-7234	12
458	Evidence for Diverse Biogeochemical Drivers of Boreal Forest New Particle Formation. 2018 , 45, 2038-2046	16
457	Accretion Product Formation from Self- and Cross-Reactions of RO Radicals in the Atmosphere. 2018 , 57, 3820-3824	88
456	Novel insights on new particle formation derived from a pan-european observing system. 2018 , 8, 1482	34
455	A computational investigation of the sulphuric acid-catalysed 1,4-hydrogen transfer in higher Criegee intermediates. 2018 , 118, e25599	6
454	Current state of aerosol nucleation parameterizations for air-quality and climate modeling. 2018 , 179, 77-106	18
453	Closed-Shell Organic Compounds Might Form Dimers at the Surface of Molecular Clusters. 2018 , 122, 1771-1780	10
452	Temporal distribution and other characteristics of new particle formation events in an urban environment. 2018 , 233, 552-560	11
451	Enhancing the detection efficiency of condensation particle counters for sub-2 nm particles. 2018 , 117, 44-53	24

450	Atmospheric autoxidation is increasingly important in urban and suburban North America. 2018 , 115, 64-69	101
449	A density functional theory study of aldehydes and their atmospheric products participating in nucleation. 2018 , 20, 1005-1011	21
448	Air Pollution and Air Quality. 2018 , 151-176	7
447	Effect of Mixing Ammonia and Alkylamines on Sulfate Aerosol Formation. 2018 , 122, 1612-1622	40
446	Resolving nanoparticle growth mechanisms from size- and time-dependent growth rate analysis. 2018 , 18, 1307-1323	15
445	Nanoparticle growth by particle-phase chemistry. 2018 , 18, 1895-1907	15
444	Formation of highly oxygenated organic molecules from aromatic compounds. 2018 , 18, 1909-1921	83
443	New particle formation in the sulfuric acid–dimethylamine–water system: reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. 2018 , 18, 845-863	62
442	Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation. 2018 , 18, 65-79	39
441	Observations of biogenic ion-induced cluster formation in the atmosphere. 2018 , 4, eaar5218	37
440	Hybridization of Nitrogen Determines Hydrogen-Bond Acceptor Strength: Gas-Phase Comparison of Redshifts and Equilibrium Constants. 2018 , 122, 3899-3908	7
439	Sub-2 nm particle measurement in high-temperature aerosol reactors: a review. 2018 , 21, 60-66	10
438	Synergistic Effect of Ammonia and Methylamine on Nucleation in the Earth's Atmosphere. A Theoretical Study. 2018 , 122, 3470-3479	27
437	Hydrogen bond docking preference in furans: OH ⁺ vs. OH ⁺ O. 2018 , 191, 155-164	15
436	Mass spectrometry of aerosol particle analogues in molecular beam experiments. 2018 , 37, 630-651	38
435	A multicomponent kinetic model established for investigation on atmospheric new particle formation mechanism in HSO-HNO-NH-VOC system. 2018 , 616-617, 1414-1422	12
434	Combining airborne in situ and ground-based lidar measurements for attribution of aerosol layers. 2018 , 18, 10575-10591	6
433	Estimating the influence of transport on aerosol size distributions during new particle formation events. 2018 , 18, 16587-16599	10

432	Refined classification and characterization of atmospheric new-particle formation events using air ions. 2018 , 18, 17883-17893	23
431	Estimating the influence of transport to aerosol size distributions during new particle formation events. 2018 ,	
430	Over a ten-year record of aerosol optical properties at SMEAR II. 2018 ,	
429	Differentiating between particle formation and growth events in an urban environment. 2018 ,	
428	New Particle Formation at a High Altitude Site in India: Impact of Fresh Emissions and Long Range Transport. 2018 ,	1
427	Sesquiterpenes identified as key species for atmospheric chemistry in boreal forest by terpenoid and OVOC measurements. 2018 ,	1
426	Heterogeneous reactions of SO on the hematite(0001) surface. 2018 , 149, 194703	6
425	Driving parameters of biogenic volatile organic compounds and consequences on new particle formation observed at an eastern Mediterranean background site. 2018 , 18, 14297-14325	22
424	Amines in boreal forest air at SMEAR II station in Finland. 2018 , 18, 6367-6380	18
423	Impact of Multiphase Chemistry on Nanoparticle Growth and Composition. 2018 , 9-34	
422	Direct Evidence for Curvature-Dependent Surface Tension in Capillary Condensation: Kelvin Equation at Molecular Scale. 2018 , 8,	25
421	A theoretical investigation on the structures of (NH ₃)(H ₂ SO ₄)(H ₂ O) ₀₋₁₄ clusters. 2018 , 119, e25850	1
420	Large Increases in Primary Trimethylaminium and Secondary Dimethylaminium in Atmospheric Particles Associated With Cyclonic Eddies in the Northwest Pacific Ocean. 2018 , 123, 12,133-12,146	9
419	Vertical characterization of highly oxygenated molecules (HOMs) below and above a boreal forest canopy. 2018 , 18, 17437-17450	18
418	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. 2018 , 4, eaau5363	105
417	Combining airborne in situ and ground-based lidar measurements for attribution of aerosol layers. 2018 ,	
416	Ion-induced sulfuric acid-ammonia nucleation drives particle formation in coastal Antarctica. 2018 , 4, eaat9744	48
415	Long-term measurements of volatile organic compounds highlight the importance of sesquiterpenes for the atmospheric chemistry of a boreal forest. 2018 , 18, 13839-13863	46

414	Robust metric for quantifying the importance of stochastic effects on nanoparticle growth. 2018 , 8, 14160	8
413	Size-resolved hygroscopic behavior of atmospheric aerosols during heavy aerosol pollution episodes in Beijing in December 2016. 2018 , 194, 188-197	28
412	Characterization of a high-resolution supercritical differential mobility analyzer at reduced flow rates. 2018 , 52, 1332-1343	9
411	Atmospheric new particle formation and growth: review of field observations. 2018 , 13, 103003	192
410	Consequences of dynamic and timing properties of new aerosol particle formation and consecutive growth events. 2018 ,	
409	Exploring non-linear associations between atmospheric new-particle formation and ambient variables: a mutual information approach. 2018 , 18, 12699-12714	14
408	The role of H ₂ SO ₄ -NH ₃ anion clusters in ion-induced aerosol nucleation mechanisms in the boreal forest. 2018 , 18, 13231-13243	19
407	Exploring the potential of nano-K ₁ theory to describe the growth of atmospheric molecular clusters by organic vapors using cluster kinetics simulations. 2018 , 18, 13733-13754	7
406	Modelling studies of HOMs and their contributions to new particle formation and growth: comparison of boreal forest in Finland and a polluted environment in China. 2018 , 18, 11779-11791	18
405	Current situation of atmospheric nanoparticles in Fukue Island, Japan. 2018 , 70, 1-12	1
404	Secondary organic aerosol formation from photooxidation of furan: effects of NO _x level and humidity. 2018 ,	3
403	Multi-year statistical and modeling analysis of submicrometer aerosol number size distributions at a rain forest site in Amazonia. 2018 , 18, 10255-10274	19
402	Multi-year statistical and modelling analysis of submicrometer aerosol number size distributions at a rain forest site in Amazonia. 2018 ,	
401	Vertical profiles of sub-3 nm particles over the boreal forest. 2018 ,	1
400	Accretion Product Formation from Ozonolysis and OH Radical Reaction of α -Pinene: Mechanistic Insight and the Influence of Isoprene and Ethylene. 2018 , 52, 11069-11077	48
399	Differentiating between particle formation and growth events in an urban environment. 2018 , 18, 11171-11183	
398	Refined classification and characterization of atmospheric new particle formation events using air ions. 2018 ,	
397	A unifying identity for the work of cluster formation in heterogeneous and homogeneous nucleation theory. 2018 , 149, 084702	4

396	Analysis of atmospheric visibility degradation in early haze based on the nucleation clustering model. 2018 , 193, 205-213	2
395	Direct Link between Structure and Hydration in Ammonium and Ammonium Bisulfate Clusters Implicated in Atmospheric New Particle Formation. 2018 , 9, 5647-5652	17
394	Aerosols in atmospheric chemistry and biogeochemical cycles of nutrients. 2018 , 13, 063004	49
393	Ultrafine Particles in the Lower Troposphere: Major Sources, Invisible Plumes, and Meteorological Transport Processes. 2018 , 99, 2587-2602	13
392	Number size distribution of atmospheric particles in a suburban Beijing in the summer and winter of 2015. 2018 , 186, 32-44	9
391	Imaging nanobubble nucleation and hydrogen spillover during electrocatalytic water splitting. 2018 , 115, 5878-5883	74
390	Stabilities of protonated water-ammonia clusters. 2018 , 148, 184306	3
389	Direct Observation of Hierarchic Molecular Interactions Critical to Biogenic Aerosol Formation. 2018 , 1,	11
388	Infrared photodissociation spectroscopy of cold cationic trimethylamine complexes. 2018 , 20, 25583-25591	9
387	Laboratory verification of a new high flow differential mobility particle sizer, and field measurements in Hyytiälä. 2018 , 124, 1-9	14
386	From O-Initiated SO ₂ Oxidation to Sulfate Formation in the Gas Phase. 2018 , 122, 5781-5788	8
385	Classification of the new particle formation events observed at a tropical site, Pune, India. 2018 , 190, 10-22	7
384	Particles in the Air. 2018 ,	1
383	Filtration of Sub-3.3 nm Tungsten Oxide Particles Using Nanofibrous Filters. 2018 , 11,	0
382	Simulation on different response characteristics of aerosol particle number concentration and mass concentration to emission changes over mainland China. 2018 , 643, 692-703	21
381	Revealing the Sources of Atmospheric Ammonia: a Review. 2018 , 4, 189-197	17
380	Atmospheric new particle formation from sulfuric acid and amines in a Chinese megacity. <i>Science</i> , 2018 , 361, 278-281	33-3 265
379	Ambient Measurements of Highly Oxidized Gas-Phase Molecules during the Southern Oxidant and Aerosol Study (SOAS) 2013. 2018 , 2, 653-672	37

378	Data inversion methods to determine sub-3 nm aerosol size distributions using the particle size magnifier. 2018 , 11, 4477-4491	14
377	Gas phase transformation from organic acid to organic sulfuric anhydride: Possibility and atmospheric fate in the initial new particle formation. 2018 , 212, 504-512	21
376	Concentration and size distribution of water-extracted dimethylammonium and trimethylammonium in atmospheric particles during nine campaigns - Implications for sources, phase states and formation pathways. 2018 , 631-632, 130-141	14
375	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. 2018 , 115, 9122-9127	73
374	Uptake of water by an acid-base nanoparticle: theoretical and experimental studies of the methanesulfonic acid-methylamine system. 2018 , 20, 22249-22259	12
373	New particle formation leads to cloud dimming. 2018 , 1,	12
372	Exploring atmospheric free-radical chemistry in China: the self-cleansing capacity and the formation of secondary air pollution. 2019 , 6, 579-594	57
371	Review of sub-3 nm condensation particle counters, calibrations, and cluster generation methods. 2019 , 53, 1277-1310	17
370	Global Modeling of Secondary Organic Aerosol With Organic Nucleation. 2019 , 124, 8260-8286	10
369	The heterogeneous reaction of dimethylamine/ammonia with sulfuric acid to promote the growth of atmospheric nanoparticles. 2019 , 6, 2767-2776	6
368	Remote Sensing Observation of New Particle Formation Events with a (UV, VIS) Polarization Lidar. 2019 , 11, 1761	6
367	Temperature effects on sulfuric acid aerosol nucleation and growth: initial results from the TANGENT study. 2019 , 19, 8915-8929	11
366	Evolution of aqSOA from the Air-Liquid Interfacial Photochemistry of Glyoxal and Hydroxyl Radicals. 2019 , 53, 10236-10245	19
365	Effect of temperature on the formation of highly oxygenated organic molecules (HOMs) from alpha-pinene ozonolysis. 2019 , 19, 7609-7625	24
364	New Particle Formation in the Atmosphere: From Molecular Clusters to Global Climate. 2019 , 124, 7098-7146	95
363	A large source of cloud condensation nuclei from new particle formation in the tropics. 2019 , 574, 399-403	75
362	New Particle Formation: A Review of Ground-Based Observations at Mountain Research Stations. 2019 , 10, 493	14
361	New particle formation, growth and apparent shrinkage at a rural background site in western Saudi Arabia. 2019 , 19, 10537-10555	11

360	Optical and Physical Characteristics of the Lowest Aerosol Layers over the Yellow River Basin. 2019 , 10, 638	4
359	Nanocluster Aerosol Emissions of a 3D Printer. 2019 , 53, 13618-13628	13
358	Over a 10-year record of aerosol optical properties at SMEAR II. 2019 , 19, 11363-11382	13
357	Infrared Spectroscopy of Hydrogen-Bonding Interactions in Neutral Dimethylamine-Methanol Complexes. 2019 , 123, 10109-10115	9
356	An Atmospheric Cluster Database Consisting of Sulfuric Acid, Bases, Organics, and Water. 2019 , 4, 10965-10974	32
355	Role of base strength, cluster structure and charge in sulfuric-acid-driven particle formation. 2019 , 19, 9753-9768	29
354	Traffic-originated nanocluster emission exceeds H ₂ SO ₄ -driven photochemical new particle formation in an urban area. 2019 ,	
353	Simulation of the Optical and Thermal Properties of Multiple Core-Shell Atmospheric Fractal Soot Agglomerates under Visible Solar Radiation. 2019 , 123, 24225-24233	
352	Electrospray Ionization-Based Synthesis and Validation of Amine-Sulfuric Acid Clusters of Relevance to Atmospheric New Particle Formation. 2019 , 30, 2267-2277	8
351	Molecular Composition and Volatility of Nucleated Particles from Pinene Oxidation between -50 °C and +25 °C. 2019 , 53, 12357-12365	14
350	Overview of Sources and Characteristics of Nanoparticles in Urban Traffic-Influenced Areas. 2019 , 72, 15-28	36
349	100 Years of Progress in Cloud Physics, Aerosols, and Aerosol Chemistry Research. 2019 , 59, 11.1-11.72	16
348	Molecular identification of organic vapors driving atmospheric nanoparticle growth. 2019 , 10, 4442	37
347	Temperature Effects on Sulfuric Acid Aerosol Nucleation and Growth: Initial Results from the TANGENT Study. 2019 ,	
346	Decrease in radiative forcing by organic aerosol nucleation, climate, and land use change. 2019 , 10, 423	27
345	Growth of Aitken mode ammonium sulfate particles by Pinene ozonolysis. 2019 , 53, 406-418	7
344	Monte Carlo simulations of homogeneous nucleation and particle growth in the presence of background particles. 2019 , 71, 1554415	4
343	Particle Formation in a Complex Environment. 2019 , 10, 275	5

342	Multiphase chemistry in the troposphere: It all starts and ends with gases. 2019 , 51, 736-752	4
341	Analysis of new particle formation (NPF) events at nearby rural, urban background and urban roadside sites. 2019 , 19, 5679-5694	20
340	Dynamic and timing properties of new aerosol particle formation and consecutive growth events. 2019 , 19, 5835-5852	10
339	Inversely modeling homogeneous $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$ nucleation rate in exhaust-related conditions. 2019 , 19, 6367-6388	5
338	Vertical profiles of sub-3 nm particles over the boreal forest. 2019 , 19, 4127-4138	13
337	Characteristics and mixing state of aerosol at the summit of Mount Tai (1534 m) in Central East China: First measurements with SPAMS. 2019 , 213, 273-284	12
336	Enhancement of Atmospheric Nucleation by Highly Oxygenated Organic Molecules: A Density Functional Theory Study. 2019 , 123, 5367-5377	5
335	Theoretical study of the cis-pinonic acid and its atmospheric hydrolysate participation in the atmospheric nucleation. 2019 , 674, 234-241	8
334	Unexpected Growth Coordinate in Large Clusters Consisting of Sulfuric Acid and CHO Tricarboxylic Acid. 2019 , 123, 3170-3175	11
333	Voltammetric Determination of the Stochastic Formation Rate and Geometry of Individual H ₂ N ₂ O ₂ and O ₂ Bubble Nuclei. 2019 , 13, 6330-6340	29
332	Molecular-Level Understanding of Synergistic Effects in Sulfuric Acid-Amine-Ammonia Mixed Clusters. 2019 , 123, 2420-2425	38
331	Improving new particle formation simulation by coupling a volatility-basis set (VBS) organic aerosol module in NAQPMS+APM. 2019 , 204, 1-11	18
330	Interannual and Seasonal Dynamics of Volatile Organic Compound Fluxes From the Boreal Forest Floor. 2019 , 10, 191	18
329	Problems Caused by Moisture in Gas Chromatographic Analysis of Headspace SPME Samples of Short-Chain Amines. 2019 , 82, 307-316	5
328	Atmospheric new particle formation in China. 2019 , 19, 115-138	73
327	Ion Mobility-Mass Spectrometry of Iodine Pentoxide-Iodic Acid Hybrid Cluster Anions in Dry and Humidified Atmospheres. 2019 , 10, 1935-1941	16
326	Sulfuric acid and aromatic carboxylate clusters $\text{H}_2\text{SO}_4\text{-ArCOO}^-$ Structures, properties, and their relevance to the initial aerosol nucleation. 2019 , 439, 27-33	5
325	Observation of atmospheric new particle growth events at the summit of mountain Tai (1534 m) in Central East China. 2019 , 201, 148-157	12

324	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. 2019 , 119, 3472-3509	262
323	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. 2019 , 19, 1971-1983	26
322	Understanding Hygroscopic Nucleation of Sulfate Aerosols: Combination of Molecular Dynamics Simulation with Classical Nucleation Theory. 2019 , 10, 1126-1132	3
321	Desert dust episodes over the Region of Balkan Peninsula. 2019 ,	
320	Urban Aerosol Particle Size Characterization in Eastern Mediterranean Conditions. 2019 , 10, 710	9
319	Impact of a hydrophobic ion on the early stage of atmospheric aerosol formation. 2019 , 116, 22540-22544	4
318	Fission of charged nano-hydrated ammonia clusters - microscopic insights into the nucleation processes. 2019 , 21, 25749-25762	4
317	New particle formation in the volcanic eruption plume of the Piton de la Fournaise: specific features from a long-term dataset. 2019 , 19, 13243-13265	5
316	The influence of wind speed on new particle formation events in an urban environment. 2019 , 215, 37-41	11
315	A density functional theory study of the molecular interactions between a series of amides and sulfuric acid. 2019 , 214, 781-790	15
314	Intramolecular Hydrogen Shift Chemistry of Hydroperoxy-Substituted Peroxy Radicals. 2019 , 123, 590-600	22
313	Chemical Characterization of Highly Functionalized Organonitrates Contributing to Night-Time Organic Aerosol Mass Loadings and Particle Growth. 2019 , 53, 1165-1174	36
312	Chemical transformations in monoterpene-derived organic aerosol enhanced by inorganic composition. 2019 , 2,	25
311	Atmospheric Reactive Nitrogen in China. 2020 ,	1
310	What caused severe air pollution episode of November 2016 in New Delhi?. 2020 , 222, 117125	53
309	Atmospheric implications of hydration on the formation of methanesulfonic acid and methylamine clusters: A theoretical study. 2020 , 244, 125538	12
308	Role of glycine on sulfuric acid-ammonia clusters formation: Transporter or participator. 2020 , 89, 125-135	4
307	Atmospheric Sulfuric Acid-Dimethylamine Nucleation Enhanced by Trifluoroacetic Acid. 2020 , 47, e2019GL085627	27

306	Formation mechanism of methanesulfonic acid and ammonia clusters: A kinetics simulation study. 2020 , 222, 117161	14
305	Characteristics and potential source areas of aliphatic amines in PM2.5 in Yangzhou, China. 2020 , 11, 296-302	11
304	Effects of forests on particle number concentrations in near-road environments across three geographic regions. 2020 , 266, 115294	7
303	The potential role of organics in new particle formation and initial growth in the remote tropical upper troposphere. 2020 ,	
302	Particle formation and surface processes on atmospheric aerosols: A review of applied quantum chemical calculations. 2020 , 120, e26350	10
301	Determinant Factor for Thermodynamic Stability of Sulfuric Acid-Amine Complexes. 2020 , 124, 10246-10257	2
300	Structures, energetics, and infrared spectra of the cationic monomethylamine-water clusters□ 2020 , 33, 31-36	1
299	Unprecedented Ambient Sulfur Trioxide (SO) Detection: Possible Formation Mechanism and Atmospheric Implications. 2020 , 7, 809-818	14
298	Deepening into the nucleation and fission processes of nano-hydrated ammonia clusters - a combined theoretical and experimental study. 2020 , 1412, 202030	
297	Establishing the structural motifs present in small ammonium and aminium bisulfate clusters of relevance to atmospheric new particle formation. 2020 , 153, 034307	7
296	Application of purge and trap-atmospheric pressure chemical ionization-tandem mass spectrometry for the determination of dimethyl sulfide in seawater. 2020 , 18, 547-559	3
295	. 2020 ,	3
294	Comparison of MODIS- and CALIPSO-Derived Temporal Aerosol Optical Depth over Yellow River Basin (China) from 2007 to 2015. 2020 , 4, 535-550	9
293	Molecular Specificity and Proton Transfer Mechanisms in Aerosol Prenucleation Clusters Relevant to New Particle Formation. 2020 , 53, 2816-2827	6
292	Frequent new particle formation over the high Arctic pack ice by enhanced iodine emissions. 2020 , 11, 4924	35
291	Catalytic activity of water molecules in gas-phase glycine dimerization. 2020 , 120, e26469	2
290	Atmospherically Relevant Hydrogen-Bonded Interactions between Methanesulfonic Acid and HSO Clusters: A Computational Study. 2020 , 124, 11072-11085	4
289	Spatio-Temporal Characteristics of PM2.5, PM10, and AOD over Canal Head Taocha Station, Henan Province. 2020 , 12, 3432	1

288	Sodium and lithium ions in aerosol: thermodynamic and rayleigh light scattering properties. 2020 , 139, 1	1
287	Interactions of sulfuric acid with common atmospheric bases and organic acids: Thermodynamics and implications to new particle formation. 2020 , 95, 130-140	6
286	Indoor Particulate Matter during HOMEChem: Concentrations, Size Distributions, and Exposures. 2020 , 54, 7107-7116	64
285	Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. 2020 , 581, 184-189	72
284	Volatile organic compounds enhancing sulfuric acid-based ternary homogeneous nucleation: The important role of synergistic effect. 2020 , 233, 117609	2
283	Atmospheric New Particle Formation and Cloud Condensation Nuclei. 2020 , 415-451	
282	Field Observations of Secondary Organic Aerosols. 2020 , 453-508	
281	A molecular-scale study on the role of methanesulfinic acid in marine new particle formation. 2020 , 227, 117378	7
280	Hydration of Atmospheric Molecular Clusters III: Procedure for Efficient Free Energy Surface Exploration of Large Hydrated Clusters. 2020 , 124, 5253-5261	10
279	Size-dependent influence of NO on the growth rates of organic aerosol particles. 2020 , 6, eaay4945	28
278	Assessment of the DLPNO Binding Energies of Strongly Noncovalent Bonded Atmospheric Molecular Clusters. 2020 , 5, 7601-7612	24
277	Comparative analysis of local and global atmospheric electric field at the Northern Pakistan. 2020 , 206, 105326	2
276	Optical and Physical Characteristics of Aerosol Vertical Layers over Northeastern China. 2020 , 11, 501	7
275	Formation of highly oxygenated organic molecules from chlorine-atom-initiated oxidation of alpha-pinene. 2020 , 20, 5145-5155	10
274	Atmospheric chemistry of thiourea: nucleation with urea and roles in NO hydrolysis. 2020 , 22, 8109-8117	4
273	New mechanistic pathways for the formation of organosulfates catalyzed by ammonia and carbinolamine formation catalyzed by sulfuric acid in the atmosphere. 2020 , 22, 8800-8807	16
272	A possible unaccounted source of atmospheric sulfate formation: amine-promoted hydrolysis and non-radical oxidation of sulfur dioxide. 2020 , 11, 2093-2102	3
271	Ten-year global particulate mass concentration derived from space-borne CALIPSO lidar observations. 2020 , 721, 137699	18

270	Determination of the amine-catalyzed SO hydrolysis mechanism in the gas phase and at the air-water interface. 2020 , 252, 126292	4
269	Insights into atmospheric oxidation processes by performing factor analyses on subranges of mass spectra. 2020 , 20, 5945-5961	6
268	Atmospheric aerosol properties at a semi-rural location in southern India: particle size distributions and implications for cloud droplet formation. 2020 , 2, 1	7
267	Enhanced growth rate of atmospheric particles from sulfuric acid. 2020 , 20, 7359-7372	21
266	Modeling the formation and growth of atmospheric molecular clusters: A review. 2020 , 149, 105621	40
265	Variation of size-segregated particle number concentrations in wintertime Beijing. 2020 , 20, 1201-1216	32
264	Biogenic volatile organic compounds (BVOCs) reactivity related to new particle formation (NPF) over the Landes forest. 2020 , 237, 104869	11
263	Formation and growth of sub-3-nm aerosol particles in experimental chambers. 2020 , 15, 1013-1040	21
262	Traffic-originated nanocluster emission exceeds H ₂ SO ₄ -driven photochemical new particle formation in an urban area. 2020 , 20, 1-13	22
261	Ultrafine Particle Number Concentration Model for Estimating Retrospective and Prospective Long-Term Ambient Exposures in Urban Neighborhoods. 2020 , 54, 1677-1686	9
260	Atmospheric fungal nanoparticle bursts. 2020 , 6, eaax9051	12
259	Atmospheric implication of synergy in methanesulfonic acid-base trimers: a theoretical investigation.. 2020 , 10, 5173-5182	11
258	On the regional aspects of new particle formation in the Eastern Mediterranean: A comparative study between a background and an urban site based on long term observations. 2020 , 239, 104911	7
257	2-Methyltetrol sulfate ester-initiated nucleation mechanism enhanced by common nucleation precursors: A theory study. 2020 , 723, 137987	3
256	Aerosol Optical Properties and Contribution to Differentiate Haze and Haze-Free Weather in Wuhan City. 2020 , 11, 322	3
255	On the fate of oxygenated organic molecules in atmospheric aerosol particles. 2020 , 6, eaax8922	31
254	The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. 2021 , 8, nwa157	4
253	Characterization of raindrop size distributions and its response to cloud microphysical properties. 2021 , 249, 105292	6

252	Formation and growth of sub-3 μ m particles in megacities: impact of background aerosols. 2021 , 226, 348-363	13
251	The size-mobility relationship of ions, aerosols, and other charged particle matter.. 2021 , 151, 105659	12
250	A theoretical study of hydrogen-bonded molecular clusters of sulfuric acid and organic acids with amides. 2021 , 100, 328-339	4
249	Secondary aerosol formation in winter haze over the Beijing-Tianjin-Hebei Region, China. 2021 , 15, 1	21
248	Research agenda for the Russian Far East and utilization of multi-platform comprehensive environmental observations. 2021 , 14, 311-337	6
247	Study of new particle formation events in southern Italy. 2021 , 244, 117920	7
246	The formation mechanism and radiative effect of secondary organic aerosols. 2021 , 57-100	
245	Hydration motifs of ammonium bisulfate clusters show complex temperature dependence. 2021 , 154, 014304	4
244	Long-term measurement of sub-3 nm particles and their precursor gases in the boreal forest. 2021 , 21, 695-715	7
243	Molecular properties affecting the hydration of acid-base clusters. 2021 , 23, 13106-13114	2
242	New particle formation from agricultural recycling of organic waste products. 2021 , 4,	1
241	Surface active agents stabilize nanodroplets and enhance haze formation. 2021 , 30, 010504	
240	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021 , 371, 589-595	33-3 31
239	Influence of vegetation on occurrence and time distributions of regional new aerosol particle formation and growth. 2021 , 21, 2861-2880	2
238	Radiatively driven NH ₃ release from agricultural field during wintertime slack season. 2021 , 247, 118228	1
237	Large Discrepancy in the Formation of Secondary Organic Aerosols from Structurally Similar Monoterpenes. 2021 , 5, 632-644	3
236	Clusteromics I: Principles, Protocols, and Applications to Sulfuric Acid-Base Cluster Formation. 2021 , 6, 7804-7814	9
235	The seasonal cycle of ice-nucleating particles linked to the abundance of biogenic aerosol in boreal forests. 2021 , 21, 3899-3918	11

- 234 New Particle Formation and Growth from Dimethyl Sulfide Oxidation by Hydroxyl Radicals. **2021**, 5, 801-811 4
- 233 Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. **2021**, 55, 4357-4367 2
- 232 The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New-Particle Formation in Beijing. **2021**, 48, e2020GL091944 23
- 231 New Particle Formation and Growth to Climate-Relevant Aerosols at a Background Remote Site in the Western Himalaya. **2021**, 126, e2020JD033267 6
- 230 Road traffic nanoparticle characteristics: Sustainable environment and mobility. **2021**, 13, 101196 7
- 229 More Significant Impacts From New Particle Formation on Haze Formation During COVID-19 Lockdown. **2021**, 48, e2020GL091591 8
- 228 Influence of atmospheric conditions on the role of trifluoroacetic acid in atmospheric sulfuric acid-dimethylamine nucleation. **2021**, 21, 6221-6230 5
- 227 Formation of nighttime sulfuric acid from the ozonolysis of alkenes in Beijing. **2021**, 21, 5499-5511 5
- 226 Past, present, and future of ultrafine particle exposures in North America. **2021**, 10, 100109 3
- 225 Enhancement of nanoparticle formation and growth during the COVID-19 lockdown period in urban Beijing. **2021**, 21, 7039-7052 3
- 224 Molecular characterization of gaseous and particulate oxygenated compounds at a remote site in Cape Corsica in the western Mediterranean Basin. **2021**, 21, 8067-8088 3
- 223 Sesquiterpenes and oxygenated sesquiterpenes dominate the VOC (C₅-C₂₀) emissions of downy birches. **2021**, 21, 8045-8066 1
- 222 Molecular-Scale Mechanism of Sequential Reaction of Oxalic Acid with SO: Potential Participator in Atmospheric Aerosol Nucleation. **2021**, 125, 4200-4208 2
- 221 Measurement report: Molecular composition and volatility of gaseous organic compounds in a boreal forest [from volatile organic compounds to highly oxygenated organic molecules. **2021**, 21, 8961-8977 1
- 220 Urban aerosol size distributions: a global perspective. **2021**, 21, 8883-8914 8
- 219 Towards understanding the characteristics of new particle formation in the Eastern Mediterranean. **2021**, 21, 9223-9251 4
- 218 Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. **2021**, 21, 9065-9088 1
- 217 Global-regional nested simulation of particle number concentration by combining microphysical processes with an evolving organic aerosol module. **2021**, 21, 9343-9366 5

216	Discovery of a Potent Source of Gaseous Amines in Urban China. 2021 , 8, 725-731	6
215	Valine involved sulfuric acid-dimethylamine ternary homogeneous nucleation and its atmospheric implications. 2021 , 254, 118373	2
214	New particle formation and its CCN enhancement in the Yangtze River Delta under the control of continental and marine air masses. 2021 , 254, 118400	
213	Atmospheric and ecosystem big data providing key contributions in reaching United Nations Sustainable Development Goals. 2021 , 5, 277-305	2
212	Contribution of New Particle Formation to Cloud Condensation Nuclei Activity and its Controlling Factors in a Mountain Region of Inland China. 2021 , 126, e2020JD034302	0
211	Impact of aerosol-radiation interaction on new particle formation. 2021 , 21, 9995-10004	3
210	Wide-field optical sizing of single nanoparticles with 10 nm accuracy. 2021 , 64, 1	
209	Observational Evidence of Lightning-Generated Ultrafine Aerosols. 2021 , 48, e2021GL093771	6
208	Observation of sub-3nm particles and new particle formation at an urban location in India. 2021 , 256, 118460	3
207	Characterization of aerosol number size distributions and their effect on cloud properties at Syowa Station, Antarctica. 2021 , 21, 12155-12172	2
206	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer. 2021 , 21, 12649-12663	5
205	In situ observation of new particle formation (NPF) in the tropical tropopause layer of the 2017 Asian monsoon anticyclone [Part I]: Summary of StratoClim results. 2021 , 21, 11689-11722	4
204	Analysis of Positive and Negative Atmospheric Air Ions During New Particle Formation (NPF) Events over Urban City of India. 1	2
203	Theoretical study of the formation and nucleation mechanism of highly oxygenated multi-functional organic compounds produced by α -pinene. 2021 , 780, 146422	2
202	A phenomenology of new particle formation (NPF) at 13 European sites. 2021 , 21, 11905-11925	4
201	Spatial variations in urban air pollution: impacts of diesel bus traffic and restaurant cooking at small scales. 1	1
200	Air Pollution, Health and Perception.	
199	Tri-Base Synergy in Sulfuric Acid-Base Clusters. 2021 , 12, 1260	3

198	Characterization of submicron aerosols over the Yellow Sea measured onboard the Gisang 1 research vessel in the spring of 2018 and 2019. 2021 , 284, 117180	2
197	Investigation of Particle Number Concentrations and New Particle Formation With Largely Reduced Air Pollutant Emissions at a Coastal Semi-Urban Site in Northern China. 2021 , 126, e2021JD035419	2
196	Interactions between isocyanic acid and atmospheric acidic, neutral and basic species. 2021 , 1204, 113384	1
195	Organic acid-ammonia ion-induced nucleation pathways unveiled by quantum chemical calculation and kinetics modeling: A case study of 3-methyl-1,2,3-butanetricarboxylic acid. 2021 , 284, 131354	0
194	Aerosols in Atmospheric Chemistry. 2022 ,	
193	Towards a concentration closure of sub-6 nm aerosol particles and sub-3 nm atmospheric clusters. 2022 , 159, 105878	1
192	Combining instrument inversions for sub-10 nm aerosol number size-distribution measurements. 2022 , 159, 105862	1
191	Direct measurement of curvature-dependent surface tension of an alcohol nanomeniscus. 2021 , 13, 6991-6996	1
190	Emerging Investigator Series: COVID-19 lockdown effects on aerosol particle size distributions in northern Italy. 2021 , 1, 214-227	3
189	Propionamide participating in HSO-based new particle formation: a theory study.. 2020 , 11, 493-500	3
188	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. 2017 , 55, 509-559	359
187	Sources and formation of nucleation mode particles in remote tropical marine atmospheres over the South China Sea and the Northwest Pacific Ocean. 2020 , 735, 139302	6
186	Characteristics of Aerosol and Cloud Condensation Nuclei Concentrations Measured over the Yellow Sea on a Meteorological Research Vessel, GISANG 1. 2016 , 26, 243-256	2
185	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. 2018 , 6,	11
184	Data_Sheet_1.CSV. 2019 ,	0
183	Sources and sinks driving sulfuric acid concentrations in contrasting environments: implications on proxy calculations. 2020 , 20, 11747-11766	20
182	Decennial time trends and diurnal patterns of particle number concentrations in a central European city between 2008 and 2018. 2020 , 20, 12247-12263	7
181	The Aarhus Chamber Campaign on Highly Oxygenated Organic Molecules and Aerosols (ACCHA): particle formation, organic acids, and dimer esters from α -pinene ozonolysis at different temperatures. 2020 , 20, 12549-12567	6

180	New particle formation at urban and high-altitude remote sites in the south-eastern Iberian Peninsula. 2020 , 20, 14253-14271	12
179	The potential role of organics in new particle formation and initial growth in the remote tropical upper troposphere. 2020 , 20, 15037-15060	4
178	Molecular understanding of new-particle formation from α -pinene between B0 and $+25\text{ }^\circ\text{C}$. 2020 , 20, 9183-9207	32
177	Identification and quantification of particle growth channels during new particle formation.	1
176	Enhancement of atmospheric $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$ nucleation: organic oxidation products versus amines.	6
175	The direct and indirect radiative effects of biogenic secondary organic aerosol.	6
174	Aerosols and nucleation in Eastern China: first insights from the new SORPES-Station.	1
173	Total sulphate vs. sulphuric acid monomer in nucleation studies: which represents the "true" concentration?	2
172	Analysis of feedbacks between nucleation rate, survival probability and cloud condensation nuclei formation.	1
171	Technical Note: Using DEG CPCs at upper tropospheric temperatures.	1
170	Electrical charging changes the composition of sulfuric acid-ammonia/dimethylamine clusters.	2
169	Submicron aerosols at thirteen diversified sites in China: size distribution, new particle formation and corresponding contribution to cloud condensation nuclei production.	2
168	Ion -- particle interactions during particle formation and growth at a coniferous forest site in central Europe.	1
167	Forest canopy interactions with nucleation mode particles.	2
166	Impacts of new particle formation on aerosol cloud condensation nuclei (CCN) activity in Shanghai: case study.	2
165	Strong atmospheric new particle formation in winter, urban Shanghai, China.	2
164	Iodine observed in new particle formation events in the Arctic atmosphere during ACCACIA.	1
163	Reactivity of stabilized Criegee intermediates (sCI) from isoprene and monoterpene ozonolysis toward SO_2 and organic acids.	7

162	A chamber study of the influence of boreal BVOC emissions and sulphuric acid on nanoparticle formation rates at ambient concentrations.	3
161	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011.	3
160	Analysis of nucleation events in the European boundary layer using the regional aerosol-climate model REMO-HAM with a solar radiation-driven OH-proxy.	1
159	Variability of air ion concentrations in urban Paris.	1
158	Biotic stress accelerates formation of climate-relevant aerosols in boreal forests.	4
157	Aerosol size distribution and new particle formation in western Yangtze River Delta of China: two-year measurement at the SORPES station.	3
156	Thermodynamics of the formation of sulfuric acid dimers in the binary (H ₂ SO ₄ -H ₂ O) and ternary (H ₂ SO ₄ -H ₂ O-NH ₃) system.	1
155	Nucleation and growth of sub-3 nm particles in the polluted urban atmosphere of a megacity in China.	3
154	Formation of highly oxidized multifunctional compounds: autoxidation of peroxy radicals formed in the ozonolysis of alkenes – deduced from structure-product relationships.	6
153	Observation of viscosity transition in pinene secondary organic aerosol.	4
152	Synergistic use of Lagrangian dispersion modelling, satellite and surface remote sensing measurements for the investigation of volcanic plumes: the Mount Etna eruption of 25–27 October 2013.	2
151	Experimental investigation of ion-ion recombination at atmospheric conditions.	2
150	Size-resolved cloud condensation nuclei concentration measurements in the Arctic: two case studies from the summer of 2008.	2
149	Particulate matter, air quality and climate: lessons learned and future needs.	12
148	Contribution from biogenic organic compounds to particle growth during the 2010 BEACHON-ROCS campaign in a Colorado temperate needle leaf forest.	2
147	A new high transmission inlet for the Caltech nano-RDMA for size distribution measurements of sub-3 nm ions at ambient concentrations.	1
146	Trimethylamine emissions in animal husbandry.	1
145	Modelling the dispersion of particle numbers in five European cities.	0

144 Characterizing Atmospheric Aerosols off the Atlantic Canadian Coast During C-FOG. **2021**, 181, 345

143 Formation of condensable organic vapors from anthropogenic and biogenic volatile organic compounds (VOCs) is strongly perturbed by NO_x and SO_x in eastern China. **2021**, 21, 14789-14814 3

142 Ozone Initiates Human-Derived Emission of Nanocluster Aerosols. **2021**, 55, 14536-14545 3

141 Vibrational Spectra of Atmospherically Relevant Hydrogen-Bonded MSA_n(HSO) (= 1-3) Clusters. **2021**, 125, 8791-8802

140 Reduced volatility of aerosols from surface emissions to the top of the planetary boundary layer. **2021**, 21, 14749-14760 2

139 Semi-empirical parameterization of size-dependent atmospheric nanoparticle growth in continental environments. 1

138 Estimating neutral nanoparticle steady state size distribution and growth according to measurements of intermediate air ions.

137 Estimating the contribution of ion-ion recombination to sub-2 nm cluster concentrations from atmospheric measurements.

136 Growth of sulphuric acid nanoparticles under wet and dry conditions.

135 Suppression of new particle formation from monoterpene oxidation by NO_x.

134 New foliage growth is a significant, unaccounted source for volatiles in boreal evergreen forests.

133 Comparing three vegetation monoterpene emission models to measured gas concentrations with a model of meteorology, air chemistry and chemical transport.

132 Chemistry of new particle growth in mixed urban and biogenic emissions – Insights from CARES. 1

131 Production and growth of new particles during two cruise campaigns in the marginal seas of China.

130 Introduction. **2014**, 1-34

129 Conclusions, Implications and Further Work. **2014**, 125-132

128 Hygroscopic properties of newly formed ultrafine particles at an urban site surrounded by a deciduous forest in northern Japan during the summer of 2011.

127 Source areas and trajectories of nucleating air masses within and near the Carpathian Basin.

- 126 On the composition of ammonia-sulfuric acid clusters during aerosol particle formation. 0
- 125 Major contribution of neutral clusters to new particle formation in the free troposphere. 1
- 124 On the derivation of particle nucleation rates from experimental formation rates.
- 123 Total sulphate vs. sulphuric acid monomer in nucleation studies.
- 122 Investigation into chemistry of new particle formation and growth in subtropical urban environment.
- 121 Scanning supersaturation CPC applied as a nano-CCN counter for size-resolved analysis of the hygroscopicity and chemical composition of nanoparticles.
- 120 Elemental composition and clustering of α -pinene oxidation products for different oxidation conditions.
- 119 Technical Note: New particle formation event forecasts during PEGASOS-Zeppelin Northern mission 2013 in Hyytiälä Finland.
- 118 Impact of gas-to-particle partitioning approaches on the simulated radiative effects of biogenic secondary organic aerosol.
- 117 Ideas and Perspectives: On the emission of amines from terrestrial vegetation in the context of atmospheric new particle formation.
- 116 Airborne measurements of new particle formation in the free troposphere above the Mediterranean Sea during the HYMEX campaign. 0
- 115 Relating the hygroscopic properties of submicron aerosol to both gas- and particle-phase chemical composition in a boreal forest environment.
- 114 Seasonality of ultrafine and sub-micron aerosols and the inferences on particle formation processes.
- 113 Introduction: The Pan-Eurasian Experiment (PEEX) – multi-disciplinary, multi-scale and multi-component research and capacity building initiative.
- 112 Molecular corridors and parameterizations of volatility in the evolution of organic aerosols.
- 111 High concentrations of sub-3 nm clusters and frequent new particle formation observed in the Po Valley, Italy, during the PEGASOS 2012 campaign.
- 110 Technical note: Detection of dimethylamine in the low pptv range using nitrate Chemical Ionization-Atmospheric Pressure interface-Time Of Flight (CI-API-TOF) mass spectrometry.
- 109 Cosmic rays and aerosols in the terrestrial atmosphere. **2018**, 15-27

108	Everyone Is Exposed Every Day. 2018 , 41-56	
107	Contribution of Atmospheric Reactive Nitrogen to Haze Pollution in China. 2020 , 113-134	
106	The synergistic effects of methanesulfonic acid (MSA) and methane-sulfinic acid (MSIA) on marine new particle formation. 2021 , 269, 118826	0
105	Drought effects on volatile organic compound emissions from Scots pine stems. 2021 ,	1
104	A molecular dynamics study of collisional heat transfer to nanoclusters in the gas phase. 2022 , 159, 105891	2
103	Impact of sub-grid particle formation in sulfur-rich plumes on particle mass and number concentrations over China. 2022 , 268, 118711	
102	Comparison results of eight oxygenated organic molecules: Unexpected contribution to new particle formation in the atmosphere. 2022 , 268, 118817	1
101	The standard operating procedure for Airmodus Particle Size Magnifier and nano-Condensation Nucleus Counter. 2022 , 159, 105896	1
100	Long-term trend of new particle formation events in the Yangtze River Delta, China and its influencing factors: 7-year dataset analysis. 2021 , 807, 150783	1
99	Observations of Gas-Phase Alkylamines at a Coastal Site in the East Mediterranean Atmosphere. 2021 , 12, 1454	1
98	Modelling the influence of biotic plant stress on atmospheric aerosol particle processes throughout a growing season. 2021 , 21, 17389-17431	1
97	Wintertime subarctic new particle formation from Kola Peninsula sulfur emissions. 2021 , 21, 17559-17576	2
96	Variations in Source Contributions of Particle Number Concentration Under Long-Term Emission Control in Winter of Urban Beijing.	
95	Reduction in Anthropogenic Emissions Suppressed New Particle Formation and Growth: Insights From the COVID-19 Lockdown. 2022 , 127, e2021JD035392	0
94	Analysis and research of absorbing aerosols in Beijing-Tianjin-Hebei region. 1	0
93	Study on Vertically Distributed Aerosol Optical Characteristics over Saudi Arabia Using CALIPSO Satellite Data. 2022 , 12, 603	
92	Protonated acetone ion chemical ionization time-of-flight mass spectrometry for real-time measurement of atmospheric ammonia.. 2022 , 114, 66-74	0
91	Effects of oligomerization and decomposition on the nanoparticle growth: a model study. 2022 , 22, 155-171	

90	Quantum Machine Learning Approach for Studying Atmospheric Cluster Formation.	5
89	A theoretical perspective on the structure and thermodynamics of secondary organic aerosols from toluene: molecular hierarchical synergistic effects.	
88	The reaction of Criegee intermediates with formamide and its implication to atmospheric aerosols.. 2022 , 296, 133717	0
87	Classical and Nonclassical Nucleation and Growth Mechanisms for Nanoparticle Formation.. 2022 ,	2
86	Activation of sub-3 nm organic particles in the particle size magnifier using humid and dry conditions. 2022 , 161, 105945	0
85	The origin of enhanced H_2O_2 production from photoionized CO ₂ clusters. 2022 , 5,	0
84	First eddy covariance flux measurements of semi-volatile organic compounds with the PTR3-TOF-MS. 2021 , 14, 8019-8039	1
83	Tropical and Boreal Forest Atmosphere Interactions: A Review. 2022 , 74, 24-163	1
82	Vacuum ultraviolet free-electron laser photoionization mass spectrometry of alpha-pinene ozonolysis.	
81	A theoretical study on the formation mechanism of carboxylic sulfuric anhydride and its potential role in new particle formation.. 2022 , 12, 5501-5508	1
80	Frequent new particle formation at remote sites in the subboreal forest of North America. 2022 , 22, 2487-2505	2
79	Measurement report: Long-term measurements of aerosol precursor concentrations in the Finnish subarctic boreal forest. 2022 , 22, 2237-2254	1
78	Hydrogen-Bond Topology Is More Important Than Acid/Base Strength in Atmospheric Prenucleation Clusters.. 2022 ,	4
77	Emission of volatile organic compounds by plants on the floor of boreal and mid-latitude forests. 1	0
76	Theoretical Investigation on the Oligomerization of Methylglyoxal and Glyoxal in Aqueous Atmospheric Aerosol Particles.	0
75	Particle Number Concentration: A Case Study for Air Quality Monitoring. 2022 , 13, 570	0
74	Variations in source contributions of particle number concentration under long-term emission control in winter of urban Beijing.. 2022 , 119072	2
73	Influence of biogenic emissions from boreal forests on aerosol-cloud interactions. 2022 , 15, 42-47	1

- 72 Advancing the science of dynamic airborne nanosized particles using Nano-DIHM. **2021**, 4, 0
- 71 What controls the observed size-dependency of the growth rates of sub-10 nm atmospheric particles?. 0
- 70 Estimation of nucleation barrier in multicomponent system with intermolecular potential.
- 69 Measurement report: Introduction to the HyICE-2018 campaign for measurements of ice-nucleating particles and instrument inter-comparison in the Hyytiälä boreal forest. **2022**, 22, 5117-5145 0
- 68 Influence of Aerosol Chemical Composition on Condensation Sink Efficiency and New Particle Formation in Beijing.. **2022**, 9, 375-382 0
- 67 Microscopic Insights Into the Formation of Methanesulfonic Acid/Methylamine/Ammonia Particles Under Acid-Rich Conditions. **2022**, 10, 0
- 66 Clusteromics III: Acid Synergy in Sulfuric Acid-Methanesulfonic Acid-Base Cluster Formation.. **2022**, 7, 15206-15214 3
- 65 Data_Sheet_2.CSV. **2019**, 0
- 64 Data_Sheet_3.CSV. **2019**, 0
- 63 Data_Sheet_4.pdf. **2019**, 0
- 62 Iodous acid-a more efficient nucleation precursor than iodic acid. 1
- 61 Determination of Gaseous and Particulate Secondary Amines in the Atmosphere Using Gas Chromatography Coupled with Electron Capture Detection. **2022**, 13, 664 0
- 60 Electrical Mobility as an Indicator for Flexibly Deducing the Kinetics of Nanoparticle Evaporation.
- 59 Molecular-level nucleation mechanism of iodic acid and methanesulfonic acid. **2022**, 22, 6103-6114 2
- 58 Assessment of spatio-temporal trends of satellite-based aerosol optical depth using Mann-Kendall test and Sen's slope estimator model. **2022**, 13, 1270-1298 1
- 57 Unprecedented levels of ultrafine particles, major sources, and the hydrological cycle.. **2022**, 12, 7410 0
- 56 Reaction of SO with HONO and Implications for Sulfur Partitioning in the Atmosphere.. **2022**, 11, 1227-1237 1
- 55 An evaluation of new particle formation events in Helsinki during a Baltic Sea cyanobacterial summer bloom. **2022**, 22, 6365-6391 0

54	Measurement report: Hygroscopic growth of ambient fine particles measured at five sites in China. 2022 , 22, 6773-6786	0
53	The proper view of cluster free energy in nucleation theories. 1-10	1
52	Institute for Atmospheric and Earth System Research (INAR): Showcases for making science diplomacy. 2022 , 58,	0
51	Role of gas-molecular cluster-aerosol dynamics in atmospheric new-particle formation. 2022 , 12,	1
50	Measurement report: Atmospheric new particle formation in a coastal agricultural site explained with binPMF analysis of nitrate CI-API-TOF spectra. 2022 , 22, 8097-8115	0
49	Changes in the new particle formation and shrinkage events of the atmospheric ions during the COVID-19 lockdown. 2022 , 44, 101214	0
48	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. 2022 , 24, 16484-16492	0
47	Quiet New Particle Formation in the Atmosphere. 10,	1
46	Diurnal evolution of negative atmospheric ions above the boreal forest: from ground level to the free troposphere. 2022 , 22, 8547-8577	0
45	Investigation of new particle formation mechanisms and aerosol processes at Marambio Station, Antarctic Peninsula. 2022 , 22, 8417-8437	1
44	Nonisothermal nucleation in the gas phase is driven by cool subcritical clusters. 2022 , 119,	0
43	Temporal variations, transport, and regional impacts of atmospheric aerosol and acid gases close to an oil and gas trading hub.	0
42	Theoretical analysis of sulfuric acid-dimethylamine-oxalic acid-water clusters and implications for atmospheric cluster formation. 2022 , 12, 22425-22434	0
41	Computational chemistry of cluster: Understanding the mechanism of atmospheric new particle formation at the molecular level. 2022 , 136109	0
40	Monoterpene Photooxidation in a Continuous-Flow Chamber: SOA Yields and Impacts of Oxidants, NO _x , and VOC Precursors.	0
39	Seasonal variation in oxygenated organic molecules in urban Beijing and their contribution to secondary organic aerosol. 2022 , 22, 10077-10097	0
38	Clusteromics IV: The Role of Nitric Acid in Atmospheric Cluster Formation.	1
37	Tutorial: Dynamic organic growth modeling with a volatility basis set. 2022 , 166, 106063	0

36	Molecular-level insight into uptake of dimethylamine on hydrated nitric acid clusters.	1
35	The Driving Effects of Common Atmospheric Molecules for Formation of Prenucleation Clusters: The Case of Sulfuric Acid, Formic Acid, Nitric Acid, Ammonia, and Dimethyl Amine.	2
34	Ultrafine Particle Emissions in the Mediterranean. 2022 , 105-123	3
33	Measurement report: A multi-year study on the impacts of Chinese New Year celebrations on air quality in Beijing, China. 2022 , 22, 11089-11104	0
32	The effectiveness of the coagulation sink of 300 nm atmospheric particles. 2022 , 22, 11529-11541	0
31	Peroxy Radical and Product Formation in the Gas-Phase Ozonolysis of Pinene under Near-Atmospheric Conditions: Occurrence of an Additional Series of Peroxy Radicals $O_2O_2C_{10}H_{15}O(O_2)_yO_2$ with $y = 1B$. 2022 , 126, 6526-6537	1
30	Turbulent Flux Measurements of the Near-Surface and Residual-Layer Small Particle Events. 2022 , 127,	0
29	Towards fully ab initio simulation of atmospheric aerosol nucleation. 2022 , 13,	0
28	On the relation between apparent ion and total particle growth rates in the boreal forest and related chamber experiments. 2022 , 22, 13153-13166	0
27	Reviews and syntheses: VOC emissions from soil cover in boreal and temperate natural ecosystems of the Northern Hemisphere. 2022 , 19, 4715-4746	0
26	Review of the influencing factors of secondary organic aerosol formation and aging mechanism based on photochemical smog chamber simulation methods. 2022 ,	1
25	Hygroscopicity and CCN potential of DMS-derived aerosol particles. 2022 , 22, 13449-13466	0
24	Geometrically-driven aggregation of anisotropic dielectric particles.	0
23	Vigorous New Particle Formation Above Polluted Boundary Layer in the North China Plain. 2022 , 49,	0
22	The critical role of dimethylamine in the rapid formation of iodic acid particles in marine areas. 2022 , 5,	1
21	Survival probability of new atmospheric particles: closure between theory and measurements from 1.4 to 100 nm. 2022 , 22, 14571-14587	0
20	Hygroscopicity of ultrafine particles containing ammonium/alkylammonium sulfates: A Köhler model investigation with correction of surface tension. 2023 , 294, 119500	0
19	Measurement report: Increasing trend of atmospheric ion concentrations in the boreal forest. 2022 , 22, 15223-15242	0

- 18 Ocean Emission Pathway and Secondary Formation Mechanism of Aminiums Over the Chinese Marginal Sea. **2022**, 127, ○
- 17 Massive Assessment of the Binding Energies of Atmospheric Molecular Clusters. **2022**, 18, 7373-7383 ○
- 16 On the influence of VOCs on new particle growth in a Continental-Mediterranean region. ○
- 15 Source characterization of volatile organic compounds in urban Beijing and its links to secondary organic aerosol formation. **2022**, 160469 ○
- 14 Characters of Particulate Matter and Their Relationship with Meteorological Factors during Winter Nanyang 2021-2022. **2023**, 14, 137 1
- 13 Bridging Gaps between Clusters in Molecular-Beam Experiments and Aerosol Nanoclusters. **2023**, 14, 287-294 ○
- 12 Atmospheric Oxidation and Secondary Particle Formation. **2023**, 19-91 ○
- 11 An unexpectedly feasible route for the formation of organosulfates by the gas phase reaction of sulfuric acid with acetaldehyde catalyzed by dimethylamine in the atmosphere. ○
- 10 CO₂ Aggregation on Monoethanolamine: Observation from Rotational Spectroscopy. ○
- 9 A new advance in pollution profile, transformation process, and contribution to SOA formation of atmospheric organic amines. ○
- 8 CO₂ Aggregation on Monoethanolamine: Observation from Rotational Spectroscopy. ○
- 7 High frequency of new particle formation events driven by summer monsoon in the central Tibetan Plateau, China. **2023**, 23, 4343-4359 ○
- 6 Reducing chemical complexity in representation of new-particle formation: evaluation of simplification approaches. **2023**, 3, 552-567 ○
- 5 Advancing understanding of land-atmosphere interactions by breaking discipline and scale barriers. **2023**, 1522, 74-97 ○
- 4 High emission rates and strong temperature response make boreal wetlands a large source of isoprene and terpenes. **2023**, 23, 2683-2698 ○
- 3 The neglected autoxidation pathways for the formation of highly oxygenated organic molecules (HOMs) and the nucleation of the HOMs generated by limonene. **2023**, 304, 119727 ○
- 2 Analysis of new particle formation events and comparisons to simulations of particle number concentrations based on GEOS-Chem-advanced particle microphysics in Beijing, China. **2023**, 23, 4091-4104 ○
- 1 Size-dependent hygroscopicity of levoglucosan and D-glucose aerosol nanoparticles. **2023**, 23, 4763-4774 ○

