Hanna VehkamÃ¤ki

List of Publications by Year
in descending order

214 papers	13,417 citations	23567 58 h-index	27406 106 g-index
265 all docs	265 docs citations	265 times ranked	6101 citing authors

#	Article	IF	Citations
1	A study on the fragmentation of sulfuric acid and dimethylamine clusters inside an atmospheric pressure interface time-of-flight mass spectrometer. Atmospheric Measurement Techniques, 2022, 15, 11-19.	3.1	7
2	Separation of isomers using a differential mobility analyser (DMA): Comparison of experimental vs modelled ion mobility. Talanta, 2022, 243, 123339.	5.5	7
3	Nonisothermal nucleation in the gas phase is driven by cool subcritical clusters. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	4
4	Homogeneous nucleation of carbon dioxide in supersonic nozzles II: molecular dynamics simulations and properties of nucleating clusters. Physical Chemistry Chemical Physics, 2021, 23, 4517-4529.	2.8	12
5	Reaction Mechanisms Underlying Unfunctionalized Alkyl Nitrate Hydrolysis in Aqueous Aerosols. ACS Earth and Space Chemistry, 2021, 5, 210-225.	2.7	9
6	Heterogeneous Nucleation of Butanol on NaCl: A Computational Study of Temperature, Humidity, Seed Charge, and Seed Size Effects. Journal of Physical Chemistry A, 2021, 125, 3025-3036.	2.5	6
7	New Particle Formation from the Vapor Phase: From Barrier-Controlled Nucleation to the Collisional Limit. Journal of Physical Chemistry Letters, 2021, 12, 4593-4599.	4.6	8
8	Predicting gasâ€“particle partitioning coefficients of atmospheric molecules with machine learning. Atmospheric Chemistry and Physics, 2021, 21, 13227-13246.	4.9	15
9	Clear, transparent, and timely communication for fair authorship decisions: a practical guide. Geoscience Communication, 2021, 4, 507-516.	0.9	0
10	Dynamic Surface Tension Enhances the Stability of Nanobubbles in Xylem Sap. Frontiers in Plant Science, 2021, 12, 732701.	3.6	9
11	Atomistic Simulation of Ice Nucleation on Silver Iodide (0001) Surfaces with Defects. Journal of Physical Chemistry C, 2020, 124, 436-445.	3.1	20
12	Atmospheric Sulfuric Acidâ€Dimethylamine Nucleation Enhanced by Trifluoroacetic Acid. Geophysical Research Letters, 2020, 47, e2019GL085627.	4.0	33
13	Highly oxygenated organic molecule cluster decomposition in atmospheric pressure interface time-of-flight mass spectrometers. Atmospheric Measurement Techniques, 2020, 13, 3581-3593.	3.1	4
14	Structural Effects of Amines in Enhancing Methanesulfonic Acid-Driven New Particle Formation. Environmental Science & Technology, 2020, 54, 13498-13508.	10.0	36
15	Homogeneous nucleation of carbon dioxide in supersonic nozzles I: experiments and classical theories. Physical Chemistry Chemical Physics, 2020, 22, 19282-19298.	2.8	11
16	Molecular Origin of the Sign Preference of Ion- Induced Heterogeneous Nucleation in a Complex Ionic Liquidâ€“Diethylene Glycol System. Journal of Physical Chemistry C, 2020, 124, 26944-26952.	3.1	8
17	Hydration of Atmospheric Molecular Clusters III: Procedure for Efficient Free Energy Surface Exploration of Large Hydrated Clusters. Journal of Physical Chemistry A, 2020, 124, 5253-5261.	2.5	16
18	Impact of Quantum Chemistry Parameter Choices and Cluster Distribution Model Settings on Modeled Atmospheric Particle Formation Rates. Journal of Physical Chemistry A, 2020, 124, 5931-5943.	2.5	34

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19	Modeling the formation and growth of atmospheric molecular clusters: A review. Journal of Aerosol Science, 2020, 149, 105621.	3.8	98
20	Identification of molecular cluster evaporation rates, cluster formation enthalpies and entropies by Monte Carlo method. Atmospheric Chemistry and Physics, 2020, 20, 15867-15906.	4.9	7
21	Seedâ€“Adsorbate Interactions as the Key of Heterogeneous Butanol and Diethylene Glycol Nucleation on Ammonium Bisulfate and Tetramethylammonium Bromide. Journal of Physical Chemistry A, 2020, 124, 10527-10539.	2.5	3
22	Piperazine Enhancing Sulfuric Acid-Based New Particle Formation: Implications for the Atmospheric Fate of Piperazine. Environmental Science & Technology, 2019, 53, 8785-8795.	10.0	41
23	Methanesulfonic Acid-driven New Particle Formation Enhanced by Monoethanolamine: A Computational Study. Environmental Science & Technology, 2019, 53, 14387-14397.	10.0	50
24	Computational Study of the Effect of Mineral Dust on Secondary Organic Aerosol Formation by Accretion Reactions of Closed-Shell Organic Compounds. Journal of Physical Chemistry A, 2019, 123, 9008-9018.	2.5	4
25	The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. Nature Communications, 2019, 10, 4370.	12.8	91
26	Configurational Sampling of Noncovalent (Atmospheric) Molecular Clusters: Sulfuric Acid and Guanidine. Journal of Physical Chemistry A, 2019, 123, 6022-6033.	2.5	54
27	How well can we predict cluster fragmentation inside a mass spectrometer?. Chemical Communications, 2019, 55, 5946-5949.	4.1	43
28	Ion Mobility-Mass Spectrometry of Iodine Pentoxideâ€“Iodic Acid Hybrid Cluster Anions in Dry and Humidified Atmospheres. Journal of Physical Chemistry Letters, 2019, 10, 1935-1941.	4.6	26
29	Unexpected quenching effect on new particle formation from the atmospheric reaction of methanol with SO ₃. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24966-24971.	7.1	32
30	Rate enhancement in collisions of sulfuric acid molecules due to long-range intermolecular forces. Atmospheric Chemistry and Physics, 2019, 19, 13355-13366.	4.9	31
31	Modeling on Fragmentation of Clusters inside a Mass Spectrometer. Journal of Physical Chemistry A, 2019, 123, 611-624.	2.5	32
32	Guanidine: A Highly Efficient Stabilizer in Atmospheric New-Particle Formation. Journal of Physical Chemistry A, 2018, 122, 4717-4729.	2.5	32
33	New Parameterizations for Neutral and Ionâ€Induced Sulfuric Acidâ€Water Particle Formation in Nucleation and Kinetic Regimes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1269-1296.	3.3	26
34	Deviation from equilibrium conditions in molecular dynamic simulations of homogeneous nucleation. Journal of Chemical Physics, 2018, 148, 164508.	3.0	13
35	An Exploratory Study of the Learning of Transferable Skills in a Research-Oriented Intensive Course in Atmospheric Sciences. Sustainability, 2018, 10, 1385.	3.2	5
36	Self-Catalytic Reaction of SO₃ and NH₃ To Produce Sulfamic Acid and Its Implication to Atmospheric Particle Formation. Journal of the American Chemical Society, 2018, 140, 11020-11028.	13.7	86

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37	Clustering mechanism of oxocarboxylic acids involving hydration reaction: Implications for the atmospheric models. Journal of Chemical Physics, 2018, 148, 214303.	3.0	22
38	Effect of Bisulfate, Ammonia, and Ammonium on the Clustering of Organic Acids and Sulfuric Acid. Journal of Physical Chemistry A, 2017, 121, 4812-4824.	2.5	35
39	Formation of atmospheric molecular clusters consisting of sulfuric acid and C₈H₁₂O₆ tricarboxylic acid. Physical Chemistry Chemical Physics, 2017, 19, 4877-4886.	2.8	47
40	Diamines Can Initiate New Particle Formation in the Atmosphere. Journal of Physical Chemistry A, 2017, 121, 6155-6164.	2.5	72
41	Atmospheric Fate of Monoethanolamine: Enhancing New Particle Formation of Sulfuric Acid as an Important Removal Process. Environmental Science & Technology, 2017, 51, 8422-8431.	10.0	95
42	New particle formation from sulfuric acid and amines: Comparison of monomethylamine, dimethylamine, and trimethylamine. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7103-7118.	3.3	97
43	Implementation of state-of-the-art ternary new-particle formation scheme to the regional chemical transport model PMCAMx-UF in Europe. Geoscientific Model Development, 2016, 9, 2741-2754.	3.6	13
44	Effect of ions on sulfuric acidâ€water binary particle formation: 2. Experimental data and comparison with QCâ€normalized classical nucleation theory. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1752-1775.	3.3	99
45	Effect of ions on sulfuric acidâ€water binary particle formation: 1. Theory for kineticâ€and nucleationâ€type particle formation and atmospheric implications. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1736-1751.	3.3	34
46	The Effect of Water and Bases on the Clustering of a Cyclohexene Autoxidation Product C₆H₈O₇ with Sulfuric Acid. Journal of Physical Chemistry A, 2016, 120, 2240-2249.	2.5	30
47	A Closure Study of the Reaction between Sulfur Dioxide and the Sulfate Radical Ion from First-Principles Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2016, 120, 1046-1050.	2.5	10
48	Strong Hydrogen Bonded Molecular Interactions between Atmospheric Diamines and Sulfuric Acid. Journal of Physical Chemistry A, 2016, 120, 3693-3700.	2.5	70
49	Effect of Conformers on Free Energies of Atmospheric Complexes. Journal of Physical Chemistry A, 2016, 120, 8613-8624.	2.5	36
50	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO3. Nature, 2016, 537, 532-534.	27.8	237
51	The effect of acidâ€“base clustering and ions on the growth of atmospheric nano-particles. Nature Communications, 2016, 7, 11594.	12.8	116
52	Growth of atmospheric clusters involving clusterâ€“cluster collisions: comparison of different growth rate methods. Atmospheric Chemistry and Physics, 2016, 16, 5545-5560.	4.9	16
53	Heterogeneous Nucleation onto Ions and Neutralized Ions: Insights into Sign-Preference. Journal of Physical Chemistry C, 2016, 120, 7444-7450.	3.1	45
54	Coupled Cluster Evaluation of the Stability of Atmospheric Acidâ€“Base Clusters with up to 10 Molecules. Journal of Physical Chemistry A, 2016, 120, 621-630.	2.5	83

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55	Computational Study on the Effect of Hydration on New Particle Formation in the Sulfuric Acid/Ammonia and Sulfuric Acid/Dimethylamine Systems. Journal of Physical Chemistry A, 2016, 120, 1886-1896.	2.5	68
56	Can Highly Oxidized Organics Contribute to Atmospheric New Particle Formation?. Journal of Physical Chemistry A, 2016, 120, 1452-1458.	2.5	32
57	Extrapolating particle concentration along the size axis in the nanometer size range requires discrete rate equations. Journal of Aerosol Science, 2015, 90, 1-13.	3.8	4
58	Exploring the chemical fate of the sulfate radical anion by reaction with sulfur dioxide in the gas phase. Atmospheric Chemistry and Physics, 2015, 15, 495-503.	4.9	11
59	The charging of neutral dimethylamine and dimethylamineâ€“sulfuric acid clusters using protonated acetone. Atmospheric Measurement Techniques, 2015, 8, 2577-2588.	3.1	1
60	Comment on â€˜Enhancement in the production of nucleating clusters due to dimethylamine and large uncertainties in the thermochemistry of amine-enhanced nucleationâ€™ by Nadykto et al., Chem. Phys. Lett. 609 (2014) 42â€“49. Chemical Physics Letters, 2015, 624, 107-110.	2.6	12
61	Structures, Hydration, and Electrical Mobilities of Bisulfate Ionâ€“Sulfuric Acidâ€“Ammonia/Dimethylamine Clusters: A Computational Study. Journal of Physical Chemistry A, 2015, 119, 9670-9679.	2.5	34
62	Resolving the anomalous infrared spectrum of the MeCNâ€“HCl molecular cluster using ab Initio molecular dynamics. Physical Chemistry Chemical Physics, 2014, 16, 24685-24690.	2.8	9
63	Effect of Hydration and Base Contaminants on Sulfuric Acid Diffusion Measurement: A Computational Study. Aerosol Science and Technology, 2014, 48, 593-603.	3.1	9
64	On the gas-phase reaction between SO₂ and O₂^{â^'}(H₂O)_{0â€“3} clusters â€“ an ab initio study. Physical Chemistry Chemical Physics, 2014, 16, 5987-5992.	2.8	9
65	Growth rates of atmospheric molecular clusters based on appearance times and collisionâ€“evaporation fluxes: Growth by monomers. Journal of Aerosol Science, 2014, 78, 55-70.	3.8	20
66	Critical cluster size cannot in practice be determined by slope analysis in atmospherically relevant applications. Journal of Aerosol Science, 2014, 77, 127-144.	3.8	29
67	Hydration of Atmospherically Relevant Molecular Clusters: Computational Chemistry and Classical Thermodynamics. Journal of Physical Chemistry A, 2014, 118, 2599-2611.	2.5	98
68	From collisions to clusters: first steps of sulphuric acid nanocluster formation dynamics. Molecular Physics, 2014, 112, 1979-1986.	1.7	15
69	On the stability and dynamics of (sulfuric acid)(ammonia) and (sulfuric acid)(dimethylamine) clusters: A first-principles molecular dynamics investigation. Chemical Physics, 2014, 428, 164-174.	1.9	22
70	Methane sulfonic acid-enhanced formation of molecular clusters of sulfuric acid and dimethyl amine. Atmospheric Chemistry and Physics, 2014, 14, 12023-12030.	4.9	110
71	Electrical charging changes the composition of sulfuric acidâ€“ammonia/dimethylamine clusters. Atmospheric Chemistry and Physics, 2014, 14, 7995-8007.	4.9	59
72	Comparing simulated and experimental molecular cluster distributions. Faraday Discussions, 2013, 165, 75.	3.2	33

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73	Heterogeneous nucleation in multi-component vapor on a partially wettable charged conducting particle. I. Formulation of general equations: Electrical surface and line excess quantities. Journal of Chemical Physics, 2013, 139, 134107.	3.0	1
74	Heterogeneous nucleation in multi-component vapor on a partially wettable charged conducting particle. II. The generalized Laplace, Gibbs-Kelvin, and Young equations and application to nucleation. Journal of Chemical Physics, 2013, 139, 134108.	3.0	3
75	Molecular understanding of sulphuric acidâ€“amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.	27.8	774
76	How do organic vapors contribute to new-particle formation?. Faraday Discussions, 2013, 165, 91.	3.2	105
77	Direct Observations of Atmospheric Aerosol Nucleation. Science, 2013, 339, 943-946.	12.6	876
78	On the similarity of equilibrium and critical clusters in atomic vapors. Journal of Chemical Physics, 2013, 138, 104504.	3.0	0
79	Reactions and Reaction Rate of Atmospheric SO₂ and O₃^{â€“} (H₂O)_{<i>n</i>} Collisions via Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2013, 117, 3143-3148.	2.5	17
80	Hydration of pure and base-Containing sulfuric acid clusters studied by computational chemistry methods. , 2013, , .		1
81	Energetics of Atmospherically Implicated Clusters Made of Sulfuric Acid, Ammonia, and Dimethyl Amine. Journal of Physical Chemistry A, 2013, 117, 3819-3825.	2.5	102
82	CIMS Sulfuric Acid Detection Efficiency Enhanced by Amines Due to Higher Dipole Moments: A Computational Study. Journal of Physical Chemistry A, 2013, 117, 14109-14119.	2.5	33
83	On atmospheric neutral and ion clusters observed in HyytiaÌˆlaÌˆ spring 2011. , 2013, , .		0
84	First-principles molecular dynamics simulations of (sulfuric acid)1(dimethylamine)1 cluster formation. , 2013, , .		0
85	Charged and neutral binary nucleation of sulfuric acid in free troposphere conditions. , 2013, , .		0
86	Is there an energy barrier in the growth of sulfuric acid clusters?. , 2013, , .		0
87	The charging properties of protonated acetone and acetone clusters. , 2013, , .		1
88	Log-log slope analyses of simulated particle formation events at different conditions. , 2013, , .		0
89	Experimental setup affects the particle formation rate and its slope d(log J)/d(log C). , 2013, , .		1
90	The effect of early growth dynamics on determining particle formation rates of a nucleating burst. , 2013, , .		0

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91	Linking neutral and charged sulfuric acid-ammonia and sulfuric acid-dimethylamine clusters. , 2013, , .		0
92	The role of highly oxidized organics in new particle formation. , 2013, , .		0
93	From gas-phase oxidation of SO[sub 2] by SO[sub 4][sup âˆ’] to the formation of sulfuric acid. AIP Conference Proceedings, 2013, , .	0.4	2
94	Free energy barrier in the growth of sulfuric acidâ€“ammonia and sulfuric acidâ€“dimethylamine clusters. Journal of Chemical Physics, 2013, 139, 084312.	3.0	164
95	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17223-17228.	7.1	300
96	Proton affinities of candidates for positively charged ambient ions in boreal forests. Atmospheric Chemistry and Physics, 2013, 13, 10397-10404.	4.9	11
97	Corrigendum to "From quantum chemical formation free energies to evaporation rates" published in Atmos. Chem. Phys., 12, 225â€“235, 2012. Atmospheric Chemistry and Physics, 2013, 13, 3321-3327.	4.9	2
98	Exploring the atmospheric chemistry of O₂SO₃<sup>âˆ’</sup&am and assessing the maximum turnover number of ion-catalysed H₂SO₄ formation. Atmospheric Chemistry and Physics, 2013, 13, 3695-3703.	4.9	24
99	Rethinking the application of the first nucleation theorem to particle formation. Journal of Chemical Physics, 2012, 136, 094107.	3.0	35
100	Quantitative Characterization of Critical Nanoclusters Nucleated on Large Single Molecules. Physical Review Letters, 2012, 108, 085701.	7.8	26
101	On the formation of sulphuric acid â€“ amine clusters in varying atmospheric conditions and its influence on atmospheric new particle formation. Atmospheric Chemistry and Physics, 2012, 12, 9113-9133.	4.9	119
102	From quantum chemical formation free energies to evaporation rates. Atmospheric Chemistry and Physics, 2012, 12, 225-235.	4.9	247
103	Atmospheric Cluster Dynamics Code: a flexible method for solution of the birth-death equations. Atmospheric Chemistry and Physics, 2012, 12, 2345-2355.	4.9	226
104	Amine substitution into sulfuric acid â€“ ammonia clusters. Atmospheric Chemistry and Physics, 2012, 12, 3591-3599.	4.9	82
105	Structural Rearrangements and Magic Numbers in Reactions between Pyridine-Containing Water Clusters and Ammonia. Journal of Physical Chemistry A, 2012, 116, 4902-4908.	2.5	25
106	Thermodynamics and kinetics of atmospheric aerosol particle formation and growth. Chemical Society Reviews, 2012, 41, 5160.	38.1	95
107	Quantum chemical studies on peroxodisulfuric acidâ€“sulfuric acidâ€“water clusters. Computational and Theoretical Chemistry, 2011, 967, 219-225.	2.5	1
108	The effect of H₂SO₄ â€“ amine clustering on chemical ionization mass spectrometry (CIMS) measurements of gas-phase sulfuric acid. Atmospheric Chemistry and Physics, 2011, 11, 3007-3019.	4.9	69

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109	Carbon dioxideâ€"water clusters in the atmosphere of Mars. Computational and Theoretical Chemistry, 2011, 965, 353-358.	2.5	11
110	Density-functional study of the sign preference of the binding of 1-propanol to tungsten oxide seed particles. Computational and Theoretical Chemistry, 2011, 966, 322-327.	2.5	2
111	Experimental Observation of Strongly Bound Dimers of Sulfuric Acid: Application to Nucleation in the Atmosphere. Physical Review Letters, 2011, 106, 228302.	7.8	72
112	Volatile Nanoparticle Formation and Growth within a Diluting Diesel Car Exhaust. Journal of the Air and Waste Management Association, 2011, 61, 399-408.	1.9	24
113	Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848.	4.9	144
114	Composition and temporal behavior of ambient ions in the boreal forest. Atmospheric Chemistry and Physics, 2010, 10, 8513-8530.	4.9	170
115	The role of cluster energy nonaccommodation in atmospheric sulfuric acid nucleation. Journal of Chemical Physics, 2010, 132, 024304.	3.0	21
116	Enhancing effect of dimethylamine in sulfuric acid nucleation in the presence of water â€" a computational study. Atmospheric Chemistry and Physics, 2010, 10, 4961-4974.	4.9	245
117	Performance of some nucleation theories with a nonsharp droplet-vapor interface. Journal of Chemical Physics, 2010, 133, 154503.	3.0	9
118	Vapor-liquid nucleation of argon: Exploration of various intermolecular potentials. Journal of Chemical Physics, 2010, 133, 084106.	3.0	20
119	A thermodynamically consistent determination of surface tension of small Lennard-Jones clusters from simulation and theory. Journal of Chemical Physics, 2010, 133, 044704.	3.0	31
120	Cluster sizes in direct and indirect molecular dynamics simulations of nucleation. Journal of Chemical Physics, 2009, 131, 244511.	3.0	22
121	Long-range transport episodes of fine particles in southern Finland during 1999â€"2007. Atmospheric Environment, 2009, 43, 1255-1264.	4.1	63
122	The sign preference in sulfuric acid nucleation. Computational and Theoretical Chemistry, 2009, 901, 169-173.	1.5	28
123	Computational investigation of the possible role of some intermediate products of SO2 oxidation in sulfuric acidâ€"water nucleation. Atmospheric Research, 2009, 91, 47-52.	4.1	12
124	Correction to â€œNew parameterization of sulfuric acidâ€ammoniaâ€water ternary nucleation rates at tropospheric conditionsâ€. Journal of Geophysical Research, 2009, 114, .	3.3	9
125	Corrigendum to "The role of ammonia in sulfuric acid ion induced nucleation" published in Atmos. Chem. Phys., 8, 2859â€"2867, 2008. Atmospheric Chemistry and Physics, 2009, 9, 7431-7434.	4.9	9
126	Homogeneous vs. heterogeneous nucleation in water-dicarboxylic acid systems. Atmospheric Chemistry and Physics, 2009, 9, 1873-1881.	4.9	8

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127	Analysis and evaluation of selected PM10 pollution episodes in the Helsinki Metropolitan Area in 2002. Atmospheric Environment, 2008, 42, 3992-4005.	4.1	17
128	Equilibrium sizes and formation energies of small and large Lennard-Jones clusters from molecular dynamics: A consistent comparison to Monte Carlo simulations and density functional theories. Journal of Chemical Physics, 2008, 129, 234506.	3.0	15
129	Heterogeneous Nucleation Experiments Bridging the Scale from Molecular Ion Clusters to Nanoparticles. Science, 2008, 319, 1374-1377.	12.6	232
130	Investigating Atmospheric Sulfuric Acidâ€“Waterâ€“Ammonia Particle Formation Using Quantum Chemistry. Advances in Quantum Chemistry, 2008, 55, 407-427.	0.8	21
131	The role of ammonia in sulfuric acid ion induced nucleation. Atmospheric Chemistry and Physics, 2008, 8, 2859-2867.	4.9	90
132	Amines are likely to enhance neutral and ion-induced sulfuric acid-water nucleation in the atmosphere more effectively than ammonia. Atmospheric Chemistry and Physics, 2008, 8, 4095-4103.	4.9	424
133	Comparative study on methodology in molecular dynamics simulation of nucleation. Journal of Chemical Physics, 2007, 126, 224517.	3.0	21
134	Connection between the virial equation of state and physical clusters in a low density vapor. Journal of Chemical Physics, 2007, 127, 104303.	3.0	13
135	Two-component heterogeneous nucleation kinetics and an application to Mars. Journal of Chemical Physics, 2007, 127, 134710.	3.0	27
136	Heterogeneous multicomponent nucleation theorems for the analysis of nanoclusters. Journal of Chemical Physics, 2007, 126, 174707.	3.0	26
137	A Comparative Study in Molecular Dynamics Simulation of Nucleation. , 2007, , 195-199.		0
138	Estimating the NH₃:H₂SO<sub>4</sub&a ratio of nucleating clusters in atmospheric conditions using quantum chemical methods. Atmospheric Chemistry and Physics, 2007, 7, 2765-2773.	4.9	62
139	Technical Note: The heterogeneous Zeldovich factor. Atmospheric Chemistry and Physics, 2007, 7, 309-313.	4.9	42
140	The condensation particle counter battery (CPCB): A new tool to investigate the activation properties of nanoparticles. Journal of Aerosol Science, 2007, 38, 289-304.	3.8	145
141	Molecular dynamics simulation of atomic clusters in equilibrium with a vapour. Molecular Simulation, 2007, 33, 245-251.	2.0	9
142	Estimation of line tension and contact angle from heterogeneous nucleation experimental data. Journal of Chemical Physics, 2007, 126, 094705.	3.0	80
143	Origin of the Failure of Classical Nucleation Theory: Incorrect Description of the Smallest Clusters. Physical Review Letters, 2007, 98, 145702.	7.8	121
144	Computational Study of the Reaction between Biogenic Stabilized Criegee Intermediates and Sulfuric Acid. Journal of Physical Chemistry A, 2007, 111, 3394-3401.	2.5	33

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145	Significance of Ammonia in Growth of Atmospheric Nanoclusters. Journal of Physical Chemistry A, 2007, 111, 10671-10674.	2.5	66
146	A density functional study on water-sulfuric acid-ammonia clusters and implications for atmospheric cluster formation. Journal of Geophysical Research, 2007, 112, .	3.3	111
147	New parameterization of sulfuric acidâ€ammoniaâ€water ternary nucleation rates at tropospheric conditions. Journal of Geophysical Research, 2007, 112, .	3.3	131
148	Dilution and aerosol dynamics within a diesel car exhaust plumeâ€"CFD simulations of on-road measurement conditions. Atmospheric Environment, 2007, 41, 7440-7461.	4.1	79
149	On Water Condensation Particle Counters and their Applicability to Field Measurements. , 2007, , 707-710.		1
150	The First Heterogeneous Nucleation Theorem Including Line Tension: Analysis of Experimental Data. , 2007, , 230-234.		2
151	Homogeneous Ternary H2SO4-NH3-H2O Nucleation and Diesel Exhaust: a Classical Approach. Aerosol and Air Quality Research, 2007, 7, 489-499.	2.1	13
152	Monte Carlo Simulations on Heterogeneous Nucleation I: The Point Where the Classical Theory Fails. , 2007, , 317-321.		0
153	Two-component Heterogeneous Nucleation in the Martian Atmosphere. , 2007, , 310-313.		0
154	Heterogeneous Nucleation Theorems for Multicomponent Systems. , 2007, , 235-239.		3
155	A Kinetically Correct and an Approximate Model of Heterogeneous Nucleation. , 2007, , 322-326.		1
156	Investigating the Role of Ammonia in Atmospheric Nucleation. , 2007, , 52-56.		0
157	An Insight into the Failure of Classical Nucleation Theory. , 2007, , 121-125.		1
158	Comparison between the classical theory predictions and molecular simulation results for heterogeneous nucleation of argon. Journal of Chemical Physics, 2006, 125, 164712.	3.0	11
159	Postcollision relaxation of small atomic clusters. Journal of Chemical Physics, 2006, 124, 024303.	3.0	12
160	Theoretical and Experimental Study on Phase Transitions and Mass Fluxes of Supersaturated Water Vapor onto Different Insoluble Flat Surfaces. Langmuir, 2006, 22, 10061-10065.	3.5	9
161	Ab Initio and Density Functional Theory Reinvestigation of Gas-Phase Sulfuric Acid Monohydrate and Ammonium Hydrogen Sulfate. Journal of Physical Chemistry A, 2006, 110, 7178-7188.	2.5	92
162	Comparison of Monte Carlo simulation methods for the calculation of the nucleation barrier of argon. Atmospheric Research, 2006, 82, 489-502.	4.1	17

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163	Atmospheric variability and binary homogeneous nucleation: A parametrisation and conditions required for a significant effect. Atmospheric Research, 2006, 82, 503-513.	4.1	7
164	Parameterization of ammonia and water content of atmospheric droplets with fixed number of sulfuric acid molecules. Atmospheric Research, 2006, 82, 514-522.	4.1	4
165	Changes in background aerosol composition in Finland during polluted and clean periods studied by TEM/EDX individual particle analysis. Atmospheric Chemistry and Physics, 2006, 6, 5049-5066.	4.9	77
166	Formation and growth of indoor air aerosol particles as a result of d-limonene oxidation. Atmospheric Environment, 2006, 40, 7882-7892.	4.1	63
167	Analysis of nucleation ability of cluster configurations with Monte Carlo simulations of argon. Journal of Chemical Physics, 2006, 125, 084503.	3.0	8
168	A comparison of rigid and flexible water models in collisions of monomers and small clusters. Journal of Chemical Physics, 2006, 125, 094313.	3.0	5
169	Characterization of aerosol particle episodes in Finland caused by wildfires in Eastern Europe. Atmospheric Chemistry and Physics, 2005, 5, 2299-2310.	4.9	73
170	Homogeneous nucleation of n-nonane and n-propanol mixtures: A comparison of classical nucleation theory and experiments. Journal of Chemical Physics, 2005, 123, 244502.	3.0	22
171	Fatty acids on continental sulfate aerosol particles. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	111
172	Nucleation studies in the Martian atmosphere. Journal of Geophysical Research, 2005, 110, .	3.3	82
173	EFFECT OF VARIABILITY IN TEMPERATURE AND VAPOUR CONCENTRATION ON NEW PARTICLE FORMATION. Journal of Aerosol Science, 2004, 35, S939-S940.	3.8	0
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