

# Ari Laaksonen

## List of Publications by Year in descending order

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Version: 2024-02-01

270  
papers

26,109  
citations

9775

73  
h-index

9090

144  
g-index

319  
all docs

319  
docs citations

319  
times ranked

11123  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.   | 6.0  | 3,374     |
| 2  | Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. <i>Nature</i> , 2011, 476, 429-433.   | 13.7 | 1,114     |
| 3  | Direct Observations of Atmospheric Aerosol Nucleation. <i>Science</i> , 2013, 339, 943-946.   | 6.0  | 876       |
| 4  | Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.  | 13.7 | 774       |
| 5  | An amorphous solid state of biogenic secondary organic aerosol particles. <i>Nature</i> , 2010, 467, 824-827.   | 13.7 | 719       |
| 6  | The effect of physical and chemical aerosol properties on warm cloud droplet activation. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2593-2649.   | 1.9  | 690       |
| 7  | The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , 2016, 533, 527-531.  | 13.7 | 540       |
| 8  | Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016, 533, 521-526.  | 13.7 | 528       |
| 9  | An improved parameterization for sulfuric acid–water nucleation rates for tropospheric and stratospheric conditions. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1.                           | 3.3  | 492       |
| 10 | Cluster activation theory as an explanation of the linear dependence between formation rate of 3nm particles and sulphuric acid concentration. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 787-793. | 1.9  | 466       |
| 11 | Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. <i>Science</i> , 2014, 344, 717-721.  | 6.0  | 456       |
| 12 | Atmospheric sulphuric acid and aerosol formation: implications from atmospheric measurements for nucleation and early growth mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4079-4091.     | 1.9  | 444       |
| 13 | Measurement of the nucleation of atmospheric aerosol particles. <i>Nature Protocols</i> , 2012, 7, 1651-1667.   | 5.5  | 435       |
| 14 | Parameterizations for sulfuric acid/water nucleation rates. <i>Journal of Geophysical Research</i> , 1998, 103, 8301-8307.  | 3.3  | 389       |
| 15 | Nucleation: Measurements, Theory, and Atmospheric Applications. <i>Annual Review of Physical Chemistry</i> , 1995, 46, 489-524.   | 4.8  | 343       |
| 16 | Connections between atmospheric sulphuric acid and new particle formation during QUEST III–IV campaigns in Heidelberg and Hyytiälä. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1899-1914.          | 1.9  | 329       |
| 17 | Organic aerosol components derived from 25 AMS data sets across Europe using a consistent ME-2 based source apportionment approach. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6159-6176.         | 1.9  | 308       |
| 18 | Ternary nucleation of H <sub>2</sub> SO <sub>4</sub> , NH <sub>3</sub> , and H <sub>2</sub> O in the atmosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 26349-26353.                           | 3.3  | 307       |

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|----|--|------|-----------|
| 19 | 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.          | 3.3  | 300       |
| 20 | Warming-induced increase in aerosol number concentration likely to moderate climate change. Nature Geoscience, 2013, 6, 438-442.   | 5.4  | 282       |
| 21 | General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143. | 1.9  | 278       |
| 22 | On the roles of sulphuric acid and low-volatility organic vapours in the initial steps of atmospheric new particle formation. Atmospheric Chemistry and Physics, 2010, 10, 11223-11242.  | 1.9  | 262       |
| 23 | Relationship between aerosol oxidation level and hygroscopic properties of laboratory generated secondary organic aerosol (SOA) particles. Geophysical Research Letters, 2010, 37, .   | 1.5  | 257       |
| 24 | EUCAARI ion spectrometer measurements at 12 European sites â€“ analysis of new particle formation events. Atmospheric Chemistry and Physics, 2010, 10, 7907-7927.  | 1.9  | 248       |
| 25 | The role of surfactants in K  hler theory reconsidered. Atmospheric Chemistry and Physics, 2004, 4, 2107-2117.   | 1.9  | 234       |
| 26 | Surface tension prevails over solute effect in organic-influenced cloud droplet activation. Nature, 2017, 546, 637-641.  | 13.7 | 232       |
| 27 | Humidity-dependent phase state of SOA particles from biogenic and anthropogenic precursors. Atmospheric Chemistry and Physics, 2012, 12, 7517-7529.  | 1.9  | 219       |
| 28 | Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. Atmospheric Chemistry and Physics, 2010, 10, 4775-4793.  | 1.9  | 212       |
| 29 | Neutral molecular cluster formation of sulfuric acidâ€“dimethylamine observed in real time under atmospheric conditions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15019-15024.    | 3.3  | 208       |
| 30 | The role of VOC oxidation products in continental new particle formation. Atmospheric Chemistry and Physics, 2008, 8, 2657-2665.   | 1.9  | 202       |
| 31 | Binary nucleation of waterâ€“sulfuric acid system: Comparison of classical theories with different H <sub>2</sub> SO <sub>4</sub> saturation vapor pressures. Journal of Chemical Physics, 1990, 93, 696-701.                        | 1.2  | 189       |
| 32 | Ubiquity of organic nitrates from nighttime chemistry in the European submicron aerosol. Geophysical Research Letters, 2016, 43, 7735-7744.  | 1.5  | 182       |
| 33 | Cloud condensation nucleus production from nucleation events at a highly polluted region. Geophysical Research Letters, 2005, 32, .  | 1.5  | 179       |
| 34 | Nucleation and growth of new particles in Po Valley, Italy. Atmospheric Chemistry and Physics, 2007, 7, 355-376.   | 1.9  | 179       |
| 35 | Modification of the K  hler Equation to Include Soluble Trace Gases and Slightly Soluble Substances. Journals of the Atmospheric Sciences, 1998, 55, 853-862.  | 0.6  | 178       |
| 36 | Analysis of the growth of nucleation mode particles observed in Boreal forest. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 449-462.   | 0.8  | 177       |

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|----|--|-----|-----------|
| 37 | Can chemical effects on cloud droplet number rival the first indirect effect?. Geophysical Research Letters, 2002, 29, 29-1-29-4.  | 1.5 | 176       |
| 38 | Organic aerosol formation via sulphate cluster activation. Journal of Geophysical Research, 2004, 109, n/a-n/a.  | 3.3 | 175       |
| 39 | ATMOSPHERIC SCIENCE: Reshaping the Theory of Cloud Formation. Science, 2001, 292, 2025-2026.   | 6.0 | 172       |
| 40 | Sensitivity of aerosol concentrations and cloud properties to nucleation and secondary organic distribution in ECHAM5-HAM global circulation model. Atmospheric Chemistry and Physics, 2009, 9, 1747-1766.           | 1.9 | 153       |
| 41 | Size and composition measurements of background aerosol and new particle growth in a Finnish forest during QUEST 2 using an Aerodyne Aerosol Mass Spectrometer. Atmospheric Chemistry and Physics, 2006, 6, 315-327. | 1.9 | 150       |
| 42 | Cloud forming potential of secondary organic aerosol under near atmospheric conditions. Geophysical Research Letters, 2008, 35, .  | 1.5 | 145       |
| 43 | Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848.   | 1.9 | 144       |
| 44 | Scaling Properties of the Critical Nucleus in Classical and Molecular-Based Theories of Vapor-Liquid Nucleation. Physical Review Letters, 1996, 76, 2754-2757.   | 2.9 | 141       |
| 45 | Analysis of the growth of nucleation mode particles observed in Boreal forest. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 449.   | 0.8 | 140       |
| 46 | Adsorptive uptake of water by semisolid secondary organic aerosols. Geophysical Research Letters, 2015, 42, 3063-3068.   | 1.5 | 139       |
| 47 | Hygroscopic growth of ultrafine ammonium sulphate aerosol measured using an ultrafine tandem differential mobility analyzer. Journal of Geophysical Research, 2000, 105, 22231-22242.                                | 3.3 | 133       |
| 48 | Trends in the average temperature in Finland, 1847-2013. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1521-1529.   | 1.9 | 130       |
| 49 | The role of relative humidity in continental new particle formation. Journal of Geophysical Research, 2011, 116, .   | 3.3 | 127       |
| 50 | A statistical proxy for sulphuric acid concentration. Atmospheric Chemistry and Physics, 2011, 11, 11319-11334.  | 1.9 | 124       |
| 51 | Surfactants in cloud droplet activation: mixed organic-inorganic particles. Atmospheric Chemistry and Physics, 2010, 10, 5663-5683.  | 1.9 | 123       |
| 52 | On the formation of sulphuric acid - amine clusters in varying atmospheric conditions and its influence on atmospheric new particle formation. Atmospheric Chemistry and Physics, 2012, 12, 9113-9133.               | 1.9 | 119       |
| 53 | Experiments on gas-liquid nucleation of sulfuric acid and water. Journal of Chemical Physics, 1997, 107, 920-926.  | 1.2 | 118       |
| 54 | Ab initio study of gas-phase sulphuric acid hydrates containing 1 to 3 water molecules. Journal of Chemical Physics, 1998, 108, 1031-1039.   | 1.2 | 116       |

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|----|---|------|-----------|
| 55 | The effect of acid–base clustering and ions on the growth of atmospheric nano-particles. <i>Nature Communications</i> , 2016, 7, 11594.   | 5.8  | 116       |
| 56 | Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14737-14756.   | 1.9  | 113       |
| 57 | SALSA – a Sectional Aerosol module for Large Scale Applications. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2469-2483.   | 1.9  | 110       |
| 58 | Aerosol hygroscopicity and CCN activation kinetics in a boreal forest environment during the 2007 EUCAARI campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12369-12386.   | 1.9  | 110       |
| 59 | Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12053-12058.                                   | 3.3  | 107       |
| 60 | Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1635-1647.   | 1.9  | 96        |
| 61 | Hygroscopic properties of ultrafine aerosol particles in the boreal forest: diurnal variation, solubility and the influence of sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 211-222.                                    | 1.9  | 95        |
| 62 | Nanoparticle formation by ozonolysis of inducible plant volatiles. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1489-1495.   | 1.9  | 94        |
| 63 | Aerosol Liquid Water Driven by Anthropogenic Nitrate: Implications for Lifetimes of Water-Soluble Organic Gases and Potential for Secondary Organic Aerosol Formation. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11127-11136. | 4.6  | 94        |
| 64 | Hygroscopic growth of ultrafine sodium chloride particles. <i>Journal of Geophysical Research</i> , 2001, 106, 20749-20757.   | 3.3  | 93        |
| 65 | Increasing large scale windstorm damage in Western, Central and Northern European forests, 1951–2010. <i>Scientific Reports</i> , 2017, 7, 46397.   | 1.6  | 93        |
| 66 | Bounce behavior of freshly nucleated biogenic secondary organic aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8759-8766.  | 1.9  | 92        |
| 67 | New particle formation in the sulfuric acid–dimethylamine–water system: reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 845-863.    | 1.9  | 92        |
| 68 | Clouds without supersaturation. <i>Nature</i> , 1997, 388, 336-337.   | 13.7 | 90        |
| 69 | Physicochemical properties and origin of organic groups detected in boreal forest using an aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2063-2077.   | 1.9  | 87        |
| 70 | Formation and growth of nucleated particles into cloud condensation nuclei: model–measurement comparison. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7645-7663.   | 1.9  | 87        |
| 71 | Molecular dynamics simulations of gas–liquid nucleation of Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 2000, 113, 9741-9747.  | 1.2  | 86        |
| 72 | New particle formation events in semi-clean South African savannah. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3333-3346.   | 1.9  | 86        |

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|----|--|-----|-----------|
| 73 | The composition of nucleation and Aitken modes particles during coastal nucleation events: evidence for marine secondary organic contribution. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4601-4616.          | 1.9 | 85        |
| 74 | The effect of H <sub>2</sub> O adsorption on cloud drop activation of insoluble particles: a theoretical framework. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 6175-6180.                                     | 1.9 | 84        |
| 75 | On the composition of ammonia-sulfuric-acid ion clusters during aerosol particle formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 55-78.  | 1.9 | 84        |
| 76 | Early snowmelt significantly enhances boreal springtime carbon uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11081-11086.                                | 3.3 | 84        |
| 77 | Interfacial curvature free energy, the Kelvin relation, and vapor-liquid nucleation rate. <i>Journal of Chemical Physics</i> , 1997, 106, 5284-5287.   | 1.2 | 82        |
| 78 | Liquid-drop formalism and free-energy surfaces in binary homogeneous nucleation theory. <i>Journal of Chemical Physics</i> , 1999, 111, 2019-2027.   | 1.2 | 82        |
| 79 | Chemical composition, main sources and temporal variability of PM <sub>1</sub> aerosols in southern African grassland. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1909-1927.                                 | 1.9 | 81        |
| 80 | Measurement of the molecular content of binary nuclei. II. Use of the nucleation rate surface for water-ethanol. <i>Journal of Chemical Physics</i> , 1994, 100, 6062-6072.  | 1.2 | 78        |
| 81 | Commentary on cloud modelling and the mass accommodation coefficient of water. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 461-464.  | 1.9 | 78        |
| 82 | Revised parametrization of the Dillmann-Meier theory of homogeneous nucleation. <i>Physical Review E</i> , 1994, 49, 5517-5524.  | 0.8 | 77        |
| 83 | Surfactant partitioning in cloud droplet activation: a study of C8, C10, C12 and C14 normal fatty acid sodium salts. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 416.                       | 0.8 | 77        |
| 84 | Two Sulfuric Acids in Small Water Clusters. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8648-8658.   | 1.1 | 74        |
| 85 | Application of several activity coefficient models to water-organic-electrolyte aerosols of atmospheric interest. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2475-2495.                                       | 1.9 | 74        |
| 86 | Changes in the production rate of secondary aerosol particles in Central Europe in view of decreasing SO <sub>2</sub> emissions between 1996 and 2006. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1071-1091. | 1.9 | 74        |
| 87 | Sulfate aerosol formation in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , 1998, 103, 8309-8321.   | 3.3 | 69        |
| 88 | A novel tandem differential mobility analyzer with organic vapor treatment of aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2001, 1, 51-60.  | 1.9 | 68        |
| 89 | Mass yields of secondary organic aerosols from the oxidation of $\alpha$ -pinene and real plant emissions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1367-1378.   | 1.9 | 68        |
| 90 | New particle formation from the oxidation of direct emissions of pine seedlings. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8121-8137.  | 1.9 | 64        |

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| 91  | Forestation of boreal peatlands: Impacts of changing albedo and greenhouse gas fluxes on radiative forcing. <i>Journal of Geophysical Research</i> , 2010, 115, .  | 3.3 | 64        |
| 92  | Observing wind, aerosol particles, cloud and precipitation: Finland's new ground-based remote-sensing network. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1351-1375.   | 1.2 | 64        |
| 93  | On the theories of type 1 polar stratospheric cloud formation. <i>Journal of Geophysical Research</i> , 1995, 100, 11275.  | 3.3 | 62        |
| 94  | Nucleation probability in binary heterogeneous nucleation of water–n-propanol vapor mixtures on insoluble and soluble nanoparticles. <i>Physical Review E</i> , 2003, 67, 021605.  | 0.8 | 58        |
| 95  | Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land–atmosphere–ocean–society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14421-14461. | 1.9 | 57        |
| 96  | An explicit cluster model for binary nuclei in water–alcohol systems. <i>Journal of Chemical Physics</i> , 1991, 95, 6745-6748.  | 1.2 | 56        |
| 97  | Overview of the field measurement campaign in Hyytiälä, August 2001 in the framework of the EU project OSOA. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 657-678.  | 1.9 | 56        |
| 98  | Adsorption of Water on 8–15 nm NaCl and (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> Aerosols Measured Using an Ultrafine Tandem Differential Mobility Analyzer. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8183-8188.                   | 1.1 | 54        |
| 99  | A model intercomparison of CCN-limited tenuous clouds in the high Arctic. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11041-11071.  | 1.9 | 54        |
| 100 | Atmospheric submicron aerosol composition and particulate organic nitrate formation in a boreal forestland–urban mixed region. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13483-13495.   | 1.9 | 53        |
| 101 | Cloud formation of particles containing humic-like substances. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.  | 1.5 | 52        |
| 102 | Modelling the formation of organic particles in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1071-1083.   | 1.9 | 51        |
| 103 | The effects of increasing atmospheric ozone on biogenic monoterpene profiles and the formation of secondary aerosols. <i>Atmospheric Environment</i> , 2007, 41, 4877-4887.  | 1.9 | 51        |
| 104 | Determination of the biogenic secondary organic aerosol fraction in the boreal forest by NMR spectroscopy. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 941-959.   | 1.9 | 51        |
| 105 | Surfactant effects in global simulations of cloud droplet activation. <i>Geophysical Research Letters</i> , 2012, 39, .  | 1.5 | 51        |
| 106 | Insight into Acid–Base Nucleation Experiments by Comparison of the Chemical Composition of Positive, Negative, and Neutral Clusters. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13675-13684.  | 4.6 | 51        |
| 107 | Binary heterogeneous nucleation of a water-sulphuric acid system: The effect of hydrate interaction. <i>Journal of Aerosol Science</i> , 1991, 22, 823-830.  | 1.8 | 50        |
| 108 | Thermodynamics, gas-liquid nucleation, and size-dependent surface tension. <i>Europhysics Letters</i> , 1996, 35, 367-372.   | 0.7 | 50        |

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|-----|--|-----|-----------|
| 109 | Theory of Size Dependent Deliquescence of Nanoparticles: A Relation to Heterogeneous Nucleation and Comparison with Experiments. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7708-7722.  | 1.2 | 50        |
| 110 | The influence of surfactant properties on critical supersaturations of cloud condensation nuclei. <i>Journal of Aerosol Science</i> , 2006, 37, 1730-1736.   | 1.8 | 50        |
| 111 | Weekly precipitation cycles? Lack of evidence from United States surface stations. <i>Geophysical Research Letters</i> , 2007, 34, .   | 1.5 | 49        |
| 112 | Biotic stress accelerates formation of climate-relevant aerosols in boreal forests. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12139-12157.  | 1.9 | 48        |
| 113 | Simulations on the effect of sulphuric acid formation on atmospheric aerosol concentrations. <i>Atmospheric Environment</i> , 1995, 29, 377-382.   | 1.9 | 47        |
| 114 | Students' initial knowledge of electric and magnetic fields – more profound explanations and reasoning models for undesired conceptions. <i>European Journal of Physics</i> , 2007, 28, 51-60.   | 0.3 | 47        |
| 115 | Effect of aerosol concentration and absorbing aerosol on the radiation fog life cycle. <i>Atmospheric Environment</i> , 2016, 133, 26-33.  | 1.9 | 47        |
| 116 | Some consequences of the nucleation theorem for binary fluids. <i>Journal of Chemical Physics</i> , 1995, 102, 6846-6850.  | 1.2 | 45        |
| 117 | Gas-liquid nucleation of nonideal binary mixtures. I. A density functional study. <i>Journal of Chemical Physics</i> , 1995, 102, 5803-5810.   | 1.2 | 45        |
| 118 | Spatial distributions and seasonal cycles of aerosols in India and China seen in global climate-aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7975-7990.   | 1.9 | 45        |
| 119 | Sources and atmospheric processing of organic aerosol in the Mediterranean: insights from aerosol mass spectrometer factor analysis. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12499-12515.   | 1.9 | 44        |
| 120 | Modification of the Dillmann-Meier theory of homogeneous nucleation. <i>Journal of Chemical Physics</i> , 1993, 99, 764-765.   | 1.2 | 43        |
| 121 | Supercooled cirrus cloud formation modified by nitric acid pollution of the upper troposphere. <i>Geophysical Research Letters</i> , 1997, 24, 3009-3012.  | 1.5 | 43        |
| 122 | A density functional study of liquid-liquid interfaces in partially miscible systems. <i>Journal of Chemical Physics</i> , 1999, 110, 5906-5912.   | 1.2 | 43        |
| 123 | SO <sub>2</sub> ; oxidation products other than H <sub>2</sub> SO <sub>4</sub> as a trigger of new particle formation. Part 2: Comparison of ambient and laboratory measurements, and atmospheric implications. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7255-7264. | 1.9 | 41        |
| 124 | Reliable potential for small sulfuric acid-water clusters. <i>Chemical Physics</i> , 2003, 287, 7-19.  | 0.9 | 40        |
| 125 | Binary homogeneous nucleation in water-succinic acid and water-glutaric acid systems. <i>Journal of Chemical Physics</i> , 2004, 120, 282-291.   | 1.2 | 40        |
| 126 | Aerosol Chemical Composition in Cloud Events by High Resolution Time-of-Flight Aerosol Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2645-2653.   | 4.6 | 40        |

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|-----|--|-----|-----------|
| 127 | On the cluster compositions in the classical binary nucleation theory. <i>Journal of Chemical Physics</i> , 1993, 99, 6832-6835.   | 1.2 | 39        |
| 128 | SO <sub>2</sub> ; oxidation products other than H <sub>2</sub> SO <sub>4</sub> ; as a trigger of new particle formation. Part 1: Laboratory investigations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6365-6374.   | 1.9 | 38        |
| 129 | Size-dependent activation of aerosols into cloud droplets at a subarctic background site during the second Pallas Cloud Experiment (2nd PaCE): method development and data evaluation. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4841-4854.                            | 1.9 | 38        |
| 130 | Geographical and diurnal features of amine-enhanced boundary layer nucleation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9606-9624.   | 1.2 | 37        |
| 131 | A simplified treatment of surfactant effects on cloud drop activation. <i>Geoscientific Model Development</i> , 2011, 4, 107-116.  | 1.3 | 36        |
| 132 | Relation of air mass history to nucleation events in Po Valley, Italy, using back trajectories analysis. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 839-853.  | 1.9 | 35        |
| 133 | A Unifying Model for Adsorption and Nucleation of Vapors on Solid Surfaces. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3736-3745.   | 1.1 | 35        |
| 134 | Extended hydrates interaction model: Hydrate formation and the energetics of binary homogeneous nucleation. <i>Journal of Chemical Physics</i> , 1991, 94, 7411-7413.  | 1.2 | 34        |
| 135 | Herbivory by an Outbreking Moth Increases Emissions of Biogenic Volatiles and Leads to Enhanced Secondary Organic Aerosol Formation Capacity. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11501-11510.   | 4.6 | 34        |
| 136 | Effects of SO <sub>2</sub> ; oxidation on ambient aerosol growth in water and ethanol vapours. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 767-779.  | 1.9 | 33        |
| 137 | Meteorological and trace gas factors affecting the number concentration of atmospheric Aitken (&i&D&i&p = 50 nm) particles in the continental boundary layer: parameterization using a multivariate mixed effects model. <i>Geoscientific Model Development</i> , 2011, 4, 1-13. | 1.3 | 33        |
| 138 | Evolution of particle composition in CLOUD nucleation experiments. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5587-5600.   | 1.9 | 33        |
| 139 | Homogeneous heteromolecular nucleation of sulphuric acid and water vapours in stratospheric conditions: a theoretical study of the effect of hydrate interaction. <i>Journal of Aerosol Science</i> , 1991, 22, 779-787.   | 1.8 | 30        |
| 140 | Strange Predictions by Binary Heterogeneous Nucleation Theory Compared with a Quantitative Experiment. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11800-11808.  | 1.2 | 30        |
| 141 | A method for detecting the presence of organic fraction in nucleation mode sized particles. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3277-3287.   | 1.9 | 30        |
| 142 | Roadside aerosol study using hygroscopic, organic and volatility TDMA: Characterization and mixing state. <i>Atmospheric Environment</i> , 2010, 44, 976-986.  | 1.9 | 30        |
| 143 | Biomass burning aerosols observed in Eastern Finland during the Russian wildfires in summer 2010 – Part 1: In-situ aerosol characterization. <i>Atmospheric Environment</i> , 2012, 47, 269-278.   | 1.9 | 30        |
| 144 | Long-term measurements of cloud droplet concentrations and aerosol-cloud interactions in continental boundary layer clouds. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013, 65, 20138.  | 0.8 | 30        |

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