

Nina Sarnela

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

4,656
citations

186209

28
h-index

233338

45
g-index

48
all docs

48
docs citations

48
times ranked

3398
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	13.7	774
2	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , 2016, 533, 527-531.	13.7	540
3	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016, 533, 521-526.	13.7	528
4	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016, 354, 1119-1124.	6.0	289
5	Molecular-scale evidence of aerosol particle formation via sequential addition of HIO ₃ . <i>Nature</i> , 2016, 537, 532-534.	13.7	237
6	The Formation of Highly Oxidized Multifunctional Products in the Ozonolysis of Cyclohexene. <i>Journal of the American Chemical Society</i> , 2014, 136, 15596-15606.	6.6	236
7	Neutral molecular cluster formation of sulfuric acid–dimethylamine observed in real time under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15019-15024.	3.3	208
8	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. <i>Science Advances</i> , 2018, 4, eaau5363.	4.7	164
9	Source characterization of highly oxidized multifunctional compounds in a boreal forest environment using positive matrix factorization. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12715-12731.	1.9	118
10	Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9122-9127.	3.3	118
11	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
12	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
13	Reactivity of stabilized Criegee intermediates (sCIs) from isoprene and monoterpene ozonolysis toward SO ₂ and organic acids. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12143-12153.	1.9	94
14	Role of iodine oxoacids in atmospheric aerosol nucleation. <i>Science</i> , 2021, 371, 589-595.	6.0	94
15	The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. <i>Nature Communications</i> , 2019, 10, 4370.	5.8	91
16	Differing Mechanisms of New Particle Formation at Two Arctic Sites. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091334.	1.5	70
17	The role of highly oxygenated molecules (HOMs) in determining the composition of ambient ions in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13819-13831.	1.9	66
18	Observations of biogenic ion-induced cluster formation in the atmosphere. <i>Science Advances</i> , 2018, 4, eaar5218.	4.7	64

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19	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. <i>Science Advances</i> , 2020, 6, eaay4945.	4.7	61
20	Influence of temperature on the molecular composition of ions and charged clusters during pure biogenic nucleation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 65-79.	1.9	56
21	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New Particle Formation in Beijing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091944.	1.5	53
22	Insight into Acid-Base Nucleation Experiments by Comparison of the Chemical Composition of Positive, Negative, and Neutral Clusters. <i>Environmental Science & Technology</i> , 2014, 48, 13675-13684.	4.6	51
23	The role of ions in new particle formation in the CLOUD chamber. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15181-15197.	1.9	50
24	Sources and sinks driving sulfuric acid concentrations in contrasting environments: implications on proxy calculations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11747-11766.	1.9	42
25	Sizing of neutral sub 3nm tungsten oxide clusters using Airmodus Particle Size Magnifier. <i>Journal of Aerosol Science</i> , 2015, 87, 53-62.	1.8	37
26	Vertical characterization of highly oxygenated molecules (HOMs) below and above a boreal forest canopy. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17437-17450.	1.9	34
27	The role of H ₂ SO ₄ -NH ₃ anion clusters in ion-induced aerosol nucleation mechanisms in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13231-13243.	1.9	33
28	Evidence for Diverse Biogeochemical Drivers of Boreal Forest New Particle Formation. <i>Geophysical Research Letters</i> , 2018, 45, 2038-2046.	1.5	31
29	Bisulfate cluster based atmospheric pressure chemical ionization mass spectrometer for high-sensitivity ($\sim 100\text{ ppqV}$) detection of atmospheric dimethyl amine: proof-of-concept and first ambient data from boreal forest. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4001-4011.	1.2	30
30	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. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11779-11791.	1.9	29
31	Thermodynamics of the formation of sulfuric acid dimers in the binary (H ₂ SO ₄ -H ₂ SO ₄) and ternary (H ₂ SO ₄ -H ₂ SO ₄ -H ₂ O) systems. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10701-10721.	1.9	27
32	Biogenic and anthropogenic sources of aerosols at the High Arctic site Villum Research Station. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10239-10256.	1.9	25
33	Direct field evidence of autocatalytic iodine release from atmospheric aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
34	Measurement-model comparison of stabilized Criegee intermediate and highly oxygenated molecule production in the CLOUD chamber. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2363-2380.	1.9	21
35	Insufficient Condensable Organic Vapors Lead to Slow Growth of New Particles in an Urban Environment. <i>Environmental Science & Technology</i> , 2022, 56, 9936-9946.	4.6	19
36	Relating the hygroscopic properties of submicron aerosol to both gas- and particle-phase chemical composition in a boreal forest environment. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11999-12009.	1.9	18

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37	Elemental composition and clustering behaviour of α -pinene oxidation products for different oxidation conditions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4145-4159.	1.9	17
38	Effect of dimethylamine on the gas phase sulfuric acid concentration measured by Chemical Ionization Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3036-3049.	1.2	17
39	Total sulfate vs. sulfuric acid monomer concentrations in nucleation studies. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3429-3443.	1.9	16
40	Long-term measurement of sub-30 nm particles and their precursor gases in the boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 695-715.	1.9	14
41	Measurement report: Molecular composition and volatility of gaseous organic compounds in a boreal forest from volatile organic compounds to highly oxygenated organic molecules. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8961-8977.	1.9	12
42	Wintertime subarctic new particle formation from Kola Peninsula sulfur emissions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17559-17576.	1.9	9
43	Measurement report: Long-term measurements of aerosol precursor concentrations in the Finnish subarctic boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2237-2254.	1.9	6
44	An evaluation of new particle formation events in Helsinki during a Baltic Sea cyanobacterial summer bloom. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6365-6391.	1.9	6
45	Soft X-ray Atmospheric Pressure Photoionization in Liquid Chromatography-Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9309-9313.	3.2	2
46	A modelling study of OH, NO ₃ and H ₂ SO ₄ in 2007-2018 at SMEAR II, Finland: analysis of long-term trends. <i>Environmental Science Atmospheres</i> , 2021, 1, 449-472.	0.9	1
47	The particle size magnifier closing the gap between measurement of molecules, molecular clusters and aerosol particles. , 2013, , .		0
48	Sulphur dioxide and sulphuric acid concentrations in the vicinity of Kilpilahti industrial area. , 2013, , .		0