

# Miikka Dal Maso

## List of Publications by Year in descending order

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116  
papers

12,367  
citations

57719

44  
h-index

32815

100  
g-index

144  
all docs

144  
docs citations

144  
times ranked

6494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of new particle formation events at a background site in Southern Sweden: relation to air mass history. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 330.	0.8	70
2	Aerosol particle formation events and analysis of high growth rates observed above a subarctic wetlandâ€“forest mosaic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 353.	0.8	48
3	The natural aerosol over Northern Europe and its relation to anthropogenic emissionsâ€“implications of important climate feedbacks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 473.	0.8	34
4	New aerosol particle formation in different synoptic situations at HyytiÃ¤lÃ¤, Southern Finland. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 485.	0.8	37
5	Observation of regional new particle formation in the urban atmosphere. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 509.	0.8	73
6	Annual and interannual variation in boreal forest aerosol particle number and volume concentration and their connection to particle formation. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 495.	0.8	72
7	Parametric CFD study for finding the optimal tube arrangement of a fin-and-tube heat exchanger with plain fins in a marine environment. <i>Applied Thermal Engineering</i> , 2022, 200, 117642.	3.0	6
8	Contribution of traffic-originated nanoparticle emissions to regional and local aerosol levels. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1131-1148.	1.9	6
9	Description and evaluation of the community aerosol dynamics model MAFOR v2.0. <i>Geoscientific Model Development</i> , 2022, 15, 3969-4026.	1.3	7
10	Measurement report: Atmospheric new particle formation in a coastal agricultural site explained with binPMF analysis of nitrate CI-API-TOF spectra. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8097-8115.	1.9	8
11	Local Scale Exposure and Fate of Engineered Nanomaterials. <i>Toxics</i> , 2022, 10, 354.	1.6	1
12	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
13	Performance of the IMERG Precipitation Products over High-latitudes Region of Finland. <i>Remote Sensing</i> , 2021, 13, 2073.	1.8	7
14	HELIOS/SICRIT/mass spectrometry for analysis of aerosols in engine exhaust. <i>Aerosol Science and Technology</i> , 2021, 55, 886-900.	1.5	8
15	Measurement report: The influence of traffic and new particle formation on the size distribution of 1â€“800â€“nm particles in Helsinki â€“ a street canyon and an urban background station comparison. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9931-9953.	1.9	13
16	Chemical and physical characterization of oil shale combustion emissions in Estonia. <i>Atmospheric Environment: X</i> , 2021, 12, 100139.	0.8	1
17	Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. <i>Small</i> , 2020, 16, e1904749.	5.2	43
18	Detection of gaseous species during KClâ€“induced highâ€“temperature corrosion by the means of CPFAAS and Clâ€“APIâ€“TOF. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 222-231.	0.8	3

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19	Deposition of dry particles on a fin-and-tube heat exchanger by a coupled soft-sphere DEM and CFD. International Journal of Heat and Mass Transfer, 2020, 149, 119046.	2.5	10
20	Ranking of human risk assessment models for manufactured nanomaterials along the Cooper stage-gate innovation funnel using stakeholder criteria. Nanolmpact, 2020, 17, 100191.	2.4	10
21	CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes. Journal of Aerosol Science, 2020, 150, 105618.	1.8	1
22	Traffic-originated nanocluster emission exceeds H <sub>2</sub> SO <sub>4</sub> -driven photochemical new particle formation in an urban area. Atmospheric Chemistry and Physics, 2020, 20, 1-13.	1.9	36
23	Nanocluster Aerosol Emissions of a 3D Printer. Environmental Science & Technology, 2019, 53, 13618-13628.	4.6	29
24	Characterization of laboratory and real driving emissions of individual Euro 6 light-duty vehicles – Fresh particles and secondary aerosol formation. Environmental Pollution, 2019, 255, 113175.	3.7	38
25	Evaluating environmental risk assessment models for nanomaterials according to requirements along the product innovation Stage-Gate process. Environmental Science: Nano, 2019, 6, 505-518.	2.2	24
26	Inversely modeling homogeneous H <sub>2</sub> SO <sub>4</sub> nucleation rate in exhaust-related conditions. Atmospheric Chemistry and Physics, 2019, 19, 6367-6388.	1.9	19
27	Airport emission particles: exposure characterization and toxicity following intratracheal instillation in mice. Particle and Fibre Toxicology, 2019, 16, 23.	2.8	41
28	Dispersion of a Traffic Related Nanocluster Aerosol Near a Major Road. Atmosphere, 2019, 10, 309.	1.0	14
29	Particle emissions of Euro VI, EEV and retrofitted EEV city buses in real traffic. Environmental Pollution, 2019, 250, 708-716.	3.7	27
30	Source specific exposure and risk assessment for indoor aerosols. Science of the Total Environment, 2019, 668, 13-24.	3.9	49
31	The Effect of Sampling Inlet Direction and Distance on Particle Source Measurements for Dispersion Modelling. Aerosol and Air Quality Research, 2019, 19, 1114-1125.	0.9	2
32	Directions in QPPR development to complement the predictive models used in risk assessment of nanomaterials. Nanolmpact, 2018, 11, 58-66.	2.4	18
33	Major secondary aerosol formation in southern African open biomass burning plumes. Nature Geoscience, 2018, 11, 580-583.	5.4	72
34	Comparison of Geometrical Layouts for a Multi-Box Aerosol Model from a Single-Chamber Dispersion Study. Environments - MDPI, 2018, 5, 52.	1.5	14
35	Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in a street canyon. Environmental Pollution, 2018, 241, 96-105.	3.7	46
36	Traffic is a major source of atmospheric nanocluster aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7549-7554.	3.3	171

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37	Influence of fuel ethanol content on primary emissions and secondary aerosol formation potential for a modern flex-fuel gasoline vehicle. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5311-5329.	1.9	55
38	A new oxidation flow reactor for measuring secondary aerosol formation of rapidly changing emission sources. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1519-1537.	1.2	44
39	A chamber study of the influence of boreal BVOC emissions and sulfuric acid on nanoparticle formation rates at ambient concentrations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1955-1970.	1.9	9
40	Observational evidence for aerosols increasing upper tropospheric humidity. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14331-14342.	1.9	7
41	New particle formation in the fresh flue-gas plume from a coal-fired power plant: effect of flue-gas cleaning. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7485-7496.	1.9	17
42	Using a combined power law and log-normal distribution model to simulate particle formation and growth in a mobile aerosol chamber. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7067-7090.	1.9	8
43	Time-resolved characterization of primary particle emissions and secondary particle formation from a modern gasoline passenger car. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8559-8570.	1.9	76
44	Analytical expression for gas-particle equilibration time scale and its numerical evaluation. <i>Atmospheric Environment</i> , 2016, 133, 34-40.	1.9	4
45	Improving Urban Air Quality Measurements by a Diffusion Charger Based Electrical Particle Sensors - A Field Study in Beijing, China. <i>Aerosol and Air Quality Research</i> , 2016, 16, 3001-3011.	0.9	7
46	CFD modeling of a vehicle exhaust laboratory sampling system: sulfur-driven nucleation and growth in diluting diesel exhaust. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5305-5323.	1.9	13
47	Modelling the contribution of biogenic volatile organic compounds to new particle formation in the JÄmsä plant atmosphere chamber. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10777-10798.	1.9	19
48	Monitoring urban air quality with a diffusion charger based electrical particle sensor. <i>Urban Climate</i> , 2015, 14, 441-456.	2.4	16
49	Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 62-73.	1.7	30
50	Comparison of Dust Release from Epoxy and Paint Nanocomposites and Conventional Products during Sanding and Sawing. <i>Annals of Occupational Hygiene</i> , 2014, 58, 983-94.	1.9	26
51	Critical cluster size cannot in practice be determined by slope analysis in atmospherically relevant applications. <i>Journal of Aerosol Science</i> , 2014, 77, 127-144.	1.8	29
52	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , 2014, 506, 476-479.	13.7	1,448
53	Prescribed burning of logging slash in the boreal forest of Finland: emissions and effects on meteorological quantities and soil properties. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4473-4502.	1.9	17
54	Temperature influence on the natural aerosol budget over boreal forests. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8295-8308.	1.9	18

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55	Trends in new particle formation in eastern Lapland, Finland: effect of decreasing sulfur emissions from Kola Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4383-4396.	1.9	36
56	How to Utilise the Knowledge of Causal Responses?. , 2013, , 397-469.		0
57	Analysis of particle size distribution changes between three measurement sites in Northern Scandinavia. , 2013, , .		0
58	Aerosols may increase upper tropospheric humidity. , 2013, , .		0
59	Modelling new particle formation from Jülich plant atmosphere chamber and CERN CLOUD chamber measurements. , 2013, , .		0
60	The effect of early growth dynamics on determining particle formation rates of a nucleating burst. , 2013, , .		0
61	Long-term aerosol and trace gas measurements in Eastern Lapland, Finland: The impact of Kola air pollution to new particle formation. , 2013, , .		0
62	The impact of temperature on natural aerosol budget over boreal forests. , 2013, , .		0
63	Analysis of particle size distribution changes between three measurement sites in northern Scandinavia. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11887-11903.	1.9	22
64	Trajectory analysis of atmospheric transport of fine particles, SO <sub>2</sub> , NO <sub>x</sub> and O <sub>3</sub> to the SMEAR II station in Finland in 1996–2008. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2153-2164.	1.9	38
65	Antarctic new particle formation from continental biogenic precursors. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3527-3546.	1.9	50
66	Secondary aerosol formation from stress-induced biogenic emissions and possible climate feedbacks. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8755-8770.	1.9	96
67	Surface/bulk partitioning and acid/base speciation of aqueous decanoate: direct observations and atmospheric implications. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 12227-12242.	1.9	41
68	Gas phase formation of extremely oxidized pinene reaction products in chamber and ambient air. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5113-5127.	1.9	222
69	Measurement of the nucleation of atmospheric aerosol particles. <i>Nature Protocols</i> , 2012, 7, 1651-1667.	5.5	435
70	Surfactant effects in global simulations of cloud droplet activation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	51
71	Growth rates of nucleation mode particles in Hyytiälä during 2003–2009: variation with particle size, season, data analysis method and ambient conditions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12865-12886.	1.9	173
72	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10599-10618.	1.9	108

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73	Production, growth and properties of ultrafine atmospheric aerosol particles in an urban environment. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1339-1353.	1.9	108
74	A simple representation of surface active organic aerosol in cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4073-4083.	1.9	48
75	Seasonal cycle, size dependencies, and source analyses of aerosol optical properties at the SMEAR II measurement station in Hyytiälä, Finland. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4445-4468.	1.9	72
76	Atmospheric nucleation: highlights of the EUCAARI project and future directions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10829-10848.	1.9	144
77	Atmospheric data over a solar cycle: no connection between galactic cosmic rays and new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1885-1898.	1.9	89
78	New particle formation in forests inhibited by isoprene emissions. <i>Nature</i> , 2009, 461, 381-384.	13.7	253
79	Organic nitrate and secondary organic aerosol yield from NO <sub>2</sub> oxidation of $\alpha$ -pinene evaluated using a gas-phase kinetics/aerosol partitioning model. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1431-1449.	1.9	277
80	Photochemical production of aerosols from real plant emissions. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4387-4406.	1.9	133
81	Time span and spatial scale of regional new particle formation events over Finland and Southern Sweden. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4699-4716.	1.9	64
82	Determination of isoprene and $\alpha$ -pinene oxidation products in boreal forest aerosols from Hyytiälä, Finland: diel variations and possible link with particle formation events. <i>Plant Biology</i> , 2008, 10, 138-149.	1.8	81
83	Atmospheric new particle formation at Utö, Baltic Sea 2003-2005. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008, 60, 345-352.	0.8	13
84	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
85	The role of VOC oxidation products in continental new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2657-2665.	1.9	202
86	Toward Direct Measurement of Atmospheric Nucleation. <i>Science</i> , 2007, 318, 89-92.	6.0	478
87	Identification and classification of the formation of intermediate ions measured in boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 201-210.	1.9	114
88	Nucleation and growth of new particles in Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 355-376.	1.9	179
89	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
90	Sub-micron atmospheric aerosols in the surroundings of Marseille and Athens: physical characterization and new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2705-2720.	1.9	64

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91	Ambient sesquiterpene concentration and its link to air ion measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2893-2916.	1.9	27
92	Contribution of mixing in the ABL to new particle formation based on observations. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4781-4792.	1.9	15
93	Estimating nucleation rates from apparent particle formation rates and vice versa: Revised formulation of the Kerminen–Kulmala equation. <i>Journal of Aerosol Science</i> , 2007, 38, 988-994.	1.8	172
94	New particle formation in Beijing, China: Statistical analysis of a 1-year data set. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	257
95	Horizontal homogeneity and vertical extent of new particle formation events. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 362-371.	0.8	66
96	Aerosol size distribution measurements at four Nordic field stations: identification, analysis and trajectory analysis of new particle formation bursts. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 350-361.	0.8	131
97	High Natural Aerosol Loading over Boreal Forests. <i>Science</i> , 2006, 312, 261-263.	6.0	447
98	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
99	A look at aerosol formation using data mining techniques. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3345-3356.	1.9	87
100	On the growth of nucleation mode particles: source rates of condensable vapor in polluted and clean environments. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 409-416.	1.9	205
101	Sulphuric acid closure and contribution to nucleation mode particle growth. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 863-878.	1.9	178
102	The contribution of sulphuric acid to atmospheric particle formation and growth: a comparison between boundary layers in Northern and Central Europe. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1773-1785.	1.9	127
103	ATMOSPHERIC PARTICLE FORMATION EVENTS AT VÄRRISMEASUREMENT STATION 1998-2002. <i>Journal of Aerosol Science</i> , 2004, 35, S1045-S1046.	1.8	0
104	NON-STEADY-STATE BINARY WATER-SULPHURIC ACID NUCLEATION MODEL. <i>Journal of Aerosol Science</i> , 2004, 35, S1199-S1200.	1.8	0
105	Comparative study of nucleation mode aerosol particles and intermediate air ions formation events at three sites. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	47
106	Formation and growth rates of ultrafine atmospheric particles: a review of observations. <i>Journal of Aerosol Science</i> , 2004, 35, 143-176.	1.8	2,034
107	Atmospheric particle formation events at VÄRRIS measurement station in Finnish Lapland 1998-2002. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2015-2023.	1.9	92
108	A new feedback mechanism linking forests, aerosols, and climate. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 557-562.	1.9	337

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109	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
110	On particle formation prediction in continental boreal forest using micrometeorological parameters. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	10
111	One year boundary layer aerosol size distribution data from five nordic background stations. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 2183-2205.	1.9	123
112	Condensation and coagulation sinks and formation of nucleation mode particles in coastal and boreal forest boundary layers. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 2-1.	3.3	205
113	Gas-aerosol relationships of H <sub>2</sub> SO <sub>4</sub> , MSA, and OH: Observations in the coastal marine boundary layer at Mace Head, Ireland. <i>Journal of Geophysical Research</i> , 2002, 107, PAR 5-1.	3.3	137
114	Modal characteristics of particulate matter in urban atmospheric aerosols. <i>Microchemical Journal</i> , 2002, 73, 19-26.	2.3	15
115	Analysis of particle formation bursts observed in Finland. <i>Journal of Aerosol Science</i> , 2001, 32, 217-236.	1.8	42
116	On the formation, growth and composition of nucleation mode particles. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 479-490.	0.8	221