

# Manuel Dall'Osto

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,007  
citations

270111

25  
h-index

299063

42  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3043  
citing authors

#	ARTICLE	IF	CITATIONS
1	PMF Analysis of Wide-Range Particle Size Spectra Collected on a Major Highway. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5522-5528.	4.6	178
2	Cluster Analysis of Rural, Urban, and Curbside Atmospheric Particle Size Data. <i>Environmental Science &amp; Technology</i> , 2009, 43, 4694-4700.	4.6	118
3	Detecting high contributions of primary organic matter to marine aerosol: A case study. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	113
4	Chemical characterisation of single airborne particles in Athens (Greece) by ATOFMS. <i>Atmospheric Environment</i> , 2006, 40, 7614-7631.	1.9	111
5	Arctic sea ice melt leads to atmospheric new particle formation. <i>Scientific Reports</i> , 2017, 7, 3318.	1.6	101
6	Particulate Oxidative Burden Associated with Firework Activity. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8295-8301.	4.6	95
7	Variation of the mixing state of Saharan dust particles with atmospheric transport. <i>Atmospheric Environment</i> , 2010, 44, 3135-3146.	1.9	82
8	Submicron NE Atlantic marine aerosol chemical composition and abundance: Seasonal trends and air mass categorization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,850-11,863.	1.2	65
9	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. <i>Scientific Reports</i> , 2017, 7, 6047.	1.6	63
10	Summertime Primary and Secondary Contributions to Southern Ocean Cloud Condensation Nuclei. <i>Scientific Reports</i> , 2018, 8, 13844.	1.6	63
11	Single-Particle Detection Efficiencies of Aerosol Time-of-Flight Mass Spectrometry during the North Atlantic Marine Boundary Layer Experiment. <i>Environmental Science &amp; Technology</i> , 2006, 40, 5029-5035.	4.6	59
12	Characterization of individual airborne particles by using aerosol time-of-flight mass spectrometry at Mace Head, Ireland. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	57
13	Open ocean and coastal new particle formation from sulfuric acid and amines around the Antarctic Peninsula. <i>Nature Geoscience</i> , 2021, 14, 383-388.	5.4	54
14	On the occurrence of open ocean particle production and growth events. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	51
15	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
16	Local and Regional Components of Aerosol in a Heavily Trafficked Street Canyon in Central London Derived from PMF and Cluster Analysis of Single-Particle ATOFMS Spectra. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3330-3340.	4.6	41
17	Novel insights on new particle formation derived from a pan-european observing system. <i>Scientific Reports</i> , 2018, 8, 1482.	1.6	39
18	Characterization of distinct Arctic aerosol accumulation modes and their sources. <i>Atmospheric Environment</i> , 2018, 183, 1-10.	1.9	36

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19	Regions of open water and melting sea ice drive new particle formation in North East Greenland. <i>Scientific Reports</i> , 2018, 8, 6109.	1.6	36
20	Biogenic Sources of Ice Nucleating Particles at the High Arctic Site Villum Research Station. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10580-10590.	4.6	36
21	Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 854-862.	1.2	34
22	Organic coating on sulfate and soot particles during late summer in the Svalbard Archipelago. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10433-10446.	1.9	31
23	An Enhanced Procedure for the Merging of Atmospheric Particle Size Distribution Data Measured Using Electrical Mobility and Time-of-Flight Analysers. <i>Aerosol Science and Technology</i> , 2010, 44, 930-938.	1.5	30
24	Abiotic and biotic sources influencing spring new particle formation in North East Greenland. <i>Atmospheric Environment</i> , 2018, 190, 126-134.	1.9	30
25	Analysis of new particle formation (NPF) events at nearby rural, urban background and urban roadside sites. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5679-5694.	1.9	30
26	Characterisation of indoor airborne particles by using real-time aerosol mass spectrometry. <i>Science of the Total Environment</i> , 2007, 384, 120-133.	3.9	28
27	On the simultaneous deployment of two single-particle mass spectrometers at an urban background and a roadside site during SAPUSS. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9693-9710.	1.9	27
28	Simultaneous measurements of aerosol size distributions at three sites in the European high Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7377-7395.	1.9	26
29	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
30	Shipborne observations reveal contrasting Arctic marine, Arctic terrestrial and Pacific marine aerosol properties. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5573-5590.	1.9	23
31	Aerosol Toxins Emitted by Harmful Algal Blooms Susceptible to Complex Air-Sea Interactions. <i>Environmental Science &amp; Technology</i> , 2021, 55, 468-477.	4.6	22
32	Arctic Primary Aerosol Production Strongly Influenced by Riverine Organic Matter. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8621-8630.	4.6	21
33	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4193-4207.	1.9	21
34	On the annual variability of Antarctic aerosol size distributions at Halley Research Station. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4461-4476.	1.9	21
35	The effect of meteorological conditions and atmospheric composition in the occurrence and development of new particle formation (NPF) events in Europe. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3345-3370.	1.9	21
36	Variability in gaseous elemental mercury at Villum Research Station, Station Nord, in North Greenland from 1999 to 2017. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13253-13265.	1.9	20

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37	Large Summer Contribution of Organic Biogenic Aerosols to Arctic Cloud Condensation Nuclei. <i>Geophysical Research Letters</i> , 2019, 46, 11500-11509.	1.5	19
38	Real-Time Measurements of Nonmetallic Fine Particulate Matter Adjacent to a Major Integrated Steelworks. <i>Aerosol Science and Technology</i> , 2012, 46, 639-653.	1.5	18
39	Apportionment of urban aerosol sources in Cork (Ireland) by synergistic measurement techniques. <i>Science of the Total Environment</i> , 2014, 493, 197-208.	3.9	18
40	Aerosol Marine Primary Carbohydrates and Atmospheric Transformation in the Western Antarctic Peninsula. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1032-1047.	1.2	17
41	On the contribution of organics to the North East Atlantic aerosol number concentration. <i>Environmental Research Letters</i> , 2012, 7, 044013.	2.2	15
42	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7807-7817.	4.6	13
43	A phenomenology of new particle formation (NPF) at 13 European sites. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11905-11925.	1.9	13
44	Assessing Viral Abundance and Community Composition in Four Contrasting Regions of the Southern Ocean. <i>Life</i> , 2020, 10, 107.	1.1	10
45	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11317-11335.	1.9	7
46	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	1.1	6
47	Distinct high molecular weight organic compound (HMW-OC) types in aerosol particles collected at a coastal urban site. <i>Atmospheric Environment</i> , 2017, 171, 118-125.	1.9	3
48	When river water meets seawater: Insights into primary marine aerosol production. <i>Science of the Total Environment</i> , 2022, 807, 150866.	3.9	3
49	Leaching material from Antarctic seaweeds and penguin guano affects cloud-relevant aerosol production. <i>Science of the Total Environment</i> , 2022, 831, 154772.	3.9	3
50	Sea Ice Microbiota in the Antarctic Peninsula Modulates Cloud-Relevant Sea Spray Aerosol Production. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	3
51	Enrichment of organic nitrogen in primary biological particles during advection over the North Atlantic. <i>Atmospheric Environment</i> , 2020, 222, 117160.	1.9	2