Manuel Dall'Osto

List of Publications by Year
in descending order

51 papers	2,007 citations	236925 25 h-index	265206 42 g-index
54 all docs	54 docs citations	54 times ranked	2719 citing authors

#	Article	IF	Citations
1	PMF Analysis of Wide-Range Particle Size Spectra Collected on a Major Highway. Environmental Science & Technology, 2011, 45, 5522-5528.	10.0	178
2	Cluster Analysis of Rural, Urban, and Curbside Atmospheric Particle Size Data. Environmental Science & Technology, 2009, 43, 4694-4700.	10.0	118
3	Detecting high contributions of primary organic matter to marine aerosol: A case study. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	113
4	Chemical characterisation of single airborne particles in Athens (Greece) by ATOFMS. Atmospheric Environment, 2006, 40, 7614-7631.	4.1	111
5	Arctic sea ice melt leads to atmospheric new particle formation. Scientific Reports, 2017, 7, 3318.	3.3	101
6	Particulate Oxidative Burden Associated with Firework Activity. Environmental Science & Technology, 2010, 44, 8295-8301.	10.0	95
7	Variation of the mixing state of Saharan dust particles with atmospheric transport. Atmospheric Environment, 2010, 44, 3135-3146.	4.1	82
8	Submicron NE Atlantic marine aerosol chemical composition and abundance: Seasonal trends and air mass categorization. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,850-11,863.	3.3	65
9	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. Scientific Reports, 2017, 7, 6047.	3.3	63
10	Summertime Primary and Secondary Contributions to Southern Ocean Cloud Condensation Nuclei. Scientific Reports, 2018, 8, 13844.	3.3	63
11	Single-Particle Detection Efficiencies of Aerosol Time-of-Flight Mass Spectrometry during the North Atlantic Marine Boundary Layer Experiment. Environmental Science & Technology, 2006, 40, 5029-5035.	10.0	59
12	Characterization of individual airborne particles by using aerosol time-of-flight mass spectrometry at Mace Head, Ireland. Journal of Geophysical Research, 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. Nature Geoscience, 2021, 14, 383-388.	12.9	54
14	On the occurrence of open ocean particle production and growth events. Geophysical Research Letters, 2010, 37, .	4.0	51
15	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. Journal of Geophysical Research, 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. Environmental Science & Technology, 2015, 49, 3330-3340.	10.0	41
17	Novel insights on new particle formation derived from a pan-european observing system. Scientific Reports, 2018, 8, 1482.	3.3	39
18	Characterization of distinct Arctic aerosol accumulation modes and their sources. Atmospheric Environment, 2018, 183, 1-10.	4.1	36

#	Article	IF	Citations
19	Regions of open water and melting sea ice drive new particle formation in North East Greenland. Scientific Reports, 2018, 8, 6109.	3.3	36
20	Biogenic Sources of Ice Nucleating Particles at the High Arctic Site Villum Research Station. Environmental Science & Technology, 2019, 53, 10580-10590.	10.0	36
21	Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment. ACS Earth and Space Chemistry, 2019, 3, 854-862.	2.7	34
22	Organic coating on sulfate and soot particles during late summer in the Svalbard Archipelago. Atmospheric Chemistry and Physics, 2019, 19, 10433-10446.	4.9	31
23	An Enhanced Procedure for the Merging of Atmospheric Particle Size Distribution Data Measured Using Electrical Mobility and Time-of-Flight Analysers. Aerosol Science and Technology, 2010, 44, 930-938.	3.1	30
24	Abiotic and biotic sources influencing spring new particle formation in North East Greenland. Atmospheric Environment, 2018, 190, 126-134.	4.1	30
25	Analysis of new particle formation (NPF) events at nearby rural, urban background and urban roadside sites. Atmospheric Chemistry and Physics, 2019, 19, 5679-5694.	4.9	30
26	Characterisation of indoor airborne particles by using real-time aerosol mass spectrometry. Science of the Total Environment, 2007, 384, 120-133.	8.0	28
27	On the simultaneous deployment of two single-particle mass spectrometers at an urban background and a roadside site during SAPUSS. Atmospheric Chemistry and Physics, 2016, 16, 9693-9710.	4.9	27
28	Simultaneous measurements of aerosol size distributions at three sites in the European high Arctic. Atmospheric Chemistry and Physics, 2019, 19, 7377-7395.	4.9	26
29	Biogenic and anthropogenic sources of aerosols at the High Arctic site Villum Research Station. Atmospheric Chemistry and Physics, 2019, 19, 10239-10256.	4.9	25
30	Shipborne observations reveal contrasting Arctic marine, Arctic terrestrial and Pacific marine aerosol properties. Atmospheric Chemistry and Physics, 2020, 20, 5573-5590.	4.9	23
31	Aerosol Toxins Emitted by Harmful Algal Blooms Susceptible to Complex Airâ€"Sea Interactions. Environmental Science & Technology, 2021, 55, 468-477.	10.0	22
32	Arctic Primary Aerosol Production Strongly Influenced by Riverine Organic Matter. Environmental Science & Technology, 2019, 53, 8621-8630.	10.0	21
33	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. Atmospheric Chemistry and Physics, 2020, 20, 4193-4207.	4.9	21
34	On the annual variability of Antarctic aerosol size distributions at Halley Research Station. Atmospheric Chemistry and Physics, 2020, 20, 4461-4476.	4.9	21
35	The effect of meteorological conditions and atmospheric composition in the occurrence and development of new particle formation (NPF) events in Europe. Atmospheric Chemistry and Physics, 2021, 21, 3345-3370.	4.9	21
36	Variability in gaseous elemental mercury at Villum Research Station, Station Nord, in North Greenland from 1999 to 2017. Atmospheric Chemistry and Physics, 2020, 20, 13253-13265.	4.9	20

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37	Large Summer Contribution of Organic Biogenic Aerosols to Arctic Cloud Condensation Nuclei. Geophysical Research Letters, 2019, 46, 11500-11509.	4.0	19
38	Real-Time Measurements of Nonmetallic Fine Particulate Matter Adjacent to a Major Integrated Steelworks. Aerosol Science and Technology, 2012, 46, 639-653.	3.1	18
39	Apportionment of urban aerosol sources in Cork (Ireland) by synergistic measurement techniques. Science of the Total Environment, 2014, 493, 197-208.	8.0	18
40	Aerosol Marine Primary Carbohydrates and Atmospheric Transformation in the Western Antarctic Peninsula. ACS Earth and Space Chemistry, 2021, 5, 1032-1047.	2.7	17
41	On the contribution of organics to the North East Atlantic aerosol number concentration. Environmental Research Letters, 2012, 7, 044013.	5.2	15
42	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. Environmental Science & Technology, 2020, 54, 7807-7817.	10.0	13
43	A phenomenology of new particle formation (NPF) at 13 European sites. Atmospheric Chemistry and Physics, 2021, 21, 11905-11925.	4.9	13
44	Assessing Viral Abundance and Community Composition in Four Contrasting Regions of the Southern Ocean. Life, 2020, 10, 107.	2.4	10
45	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. Atmospheric Chemistry and Physics, 2021, 21, 11317-11335.	4.9	7
46	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. Elementa, 2019, 7, .	3.2	6
47	Distinct high molecular weight organic compound (HMW-OC) types in aerosol particles collected at a coastal urban site. Atmospheric Environment, 2017, 171, 118-125.	4.1	3
48	When river water meets seawater: Insights into primary marine aerosol production. Science of the Total Environment, 2022, 807, 150866.	8.0	3
49	Leaching material from Antarctic seaweeds and penguin guano affects cloud-relevant aerosol production. Science of the Total Environment, 2022, 831, 154772.	8.0	3
50	Sea Ice Microbiota in the Antarctic Peninsula Modulates Cloud-Relevant Sea Spray Aerosol Production. Frontiers in Marine Science, 0, 9, .	2.5	3
51	Enrichment of organic nitrogen in primary biological particles during advection over the North Atlantic. Atmospheric Environment, 2020, 222, 117160.	4.1	2