Matteo Rinaldi

List of Publications by Year in Descending Order

79 papers	3,407 citations	32 h-index	58 g-index
97 ext. papers	3,911 ext. citations	6.9 avg, IF	4.56 L-index

#	Paper	IF	Citations
79	Understanding the environmental factors related to the decrease in Pediatric Emergency Department referrals for acute asthma during the SARS-CoV-2 pandemic. *Pediatric Pulmonology*, **2022**, 57, 66-74	3.5	3
78	Leaching material from Antarctic seaweeds and penguin guano affects cloud-relevant aerosol production.. *Science of the Total Environment*, **2022**, 154772	10.2	
77	On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol: Phenomenology. *Atmosphere*, **2022**, 13, 704	2.7	1
76	European Aerosol Phenomenology - 8: Harmonised Source Apportionment of Organic Aerosol using 22 Year-long ACSM/AMS Datasets. *Environment International*, **2022**, 107325	12.9	1
75	Ice-nucleating particle concentration measurements from Ny-Ålesund during the Arctic spring–summer in 2018. *Atmospheric Chemistry and Physics*, **2021**, 21, 14725-14748	6.8	1
74	A two-component parameterization of marine ice-nucleating particles based on seawater biology and sea spray aerosol measurements in the Mediterranean Sea. *Atmospheric Chemistry and Physics*, **2021**, 21, 4659-4676	6.8	3
73	Historical Changes in Seasonal Aerosol Acidity in the Po Valley (Italy) as Inferred from Fog Water and Aerosol Measurements. *Environmental Science & Technology*, **2021**, 55, 7307-7315	10.3	4
72	Evaluating the Impact of a Wall-Type Green Infrastructure on PM10 and NOx Concentrations in an Urban Street Environment. *Atmosphere*, **2021**, 12, 839	2.7	2
71	An evaluation of the performance of a green panel in improving air quality, the case study in a street canyon in Modena, Italy. *Atmospheric Environment*, **2021**, 247, 118189	5.3	5
70	Mediterranean nascent sea spray organic aerosol and relationships with seawater biogeochemistry. *Atmospheric Chemistry and Physics*, **2021**, 21, 10625-10641	6.8	4
69	Linking Marine Biological Activity to Aerosol Chemical Composition and Cloud-Relevant Properties Over the North Atlantic Ocean. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032246	4.4	5
68	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. *Environmental Science & Technology*, **2020**, 54, 7807-7817	10.3	8
67	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. *Atmospheric Chemistry and Physics*, **2020**, 20, 4193-4207	6.8	13
66	The impact of biomass burning and aqueous-phase processing on air quality: a multi-year source apportionment study in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2020**, 20, 1233-1254	6.8	26
65	Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. *Atmospheric Research*, **2020**, 237, 104837	5.4	4
64	The impact of biomass burning and aqueous-phase processing on air quality: a multi-year source apportionment study in the Po Valley, Italy **2019**,		1
63	Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment. *ACS Earth and Space Chemistry*, **2019**, 3, 854-862	3.2	23

62	Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol. *Atmospheric Chemistry and Physics*, **2019**, 19, 14091-14106	6.8	8
61	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. *Atmospheric Research*, **2019**, 219, 57-64	5.4	5
60	Marine and Terrestrial Organic Ice-Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 6196-6212	4.4	72
59	Extreme air pollution from residential solid fuel burning. *Nature Sustainability*, **2018**, 1, 512-517	22.1	31
58	Global relevance of marine organic aerosol as ice nucleating particles. *Atmospheric Chemistry and Physics*, **2018**, 18, 11423-11445	6.8	21
57	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. *Nature*, **2017**, 546, 637-641	50.4	162
56	Ground level ice nuclei particle measurements including Saharan dust events at a Po Valley rural site (San Pietro Capofiume, Italy). *Atmospheric Research*, **2017**, 186, 116-126	5.4	13
55	A three-year investigation of daily PM2.5 main chemical components in four sites: the routine measurement program of the Supersito Project (Po Valley, Italy). *Atmospheric Environment*, **2017**, 152, 418-430	5.3	40
54	Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165 m a.s.l., Italy). *Atmospheric Environment*, **2017**, 171, 173-180	5.3	8
53	Characteristics of brown carbon in the urban Po Valley atmosphere. *Atmospheric Chemistry and Physics*, **2017**, 17, 313-326	6.8	34
52	Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach. *Scientific Reports*, **2017**, 7, 11475	4.9	45
51	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. *Scientific Reports*, **2017**, 7, 6047	4.9	43
50	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. *Atmospheric Chemistry and Physics*, **2017**, 17, 3637-3658	6.8	107
49	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations **2016**,		2
48	Direct observation of aqueous secondary organic aerosol from biomass-burning emissions. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10013-8	11.5	170
47	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2016**, 16, 8095-8108	6.8	34
46	Size-resolved aerosol composition at an urban and a rural site in the Po Valley in summertime: implications for secondary aerosol formation. *Atmospheric Chemistry and Physics*, **2016**, 16, 10879-10897	6.8	27
45	Marine submicron aerosol gradients, sources and sinks. *Atmospheric Chemistry and Physics*, **2016**, 16, 12425-12439	6.8	8

44	Summer atmospheric composition over the Mediterranean basin: Investigation on transport processes and pollutant export to the free troposphere by observations at the WMO/GAW Mt. Cimone global station (Italy, 2165 m a.s.l.). *Atmospheric Environment*, **2016**, 141, 139-152	5.3	15
43	Effects of global change during the 21st century on the nitrogen cycle **2015**,		12
42	Marine and urban influences on summertime PM2.5 aerosol in the Po basin using mobile measurements. *Atmospheric Environment*, **2015**, 120, 447-454	5.3	9
41	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. *Scientific Reports*, **2015**, 5, 14883	4.9	58
40	Effects of global change during the 21st century on the nitrogen cycle. *Atmospheric Chemistry and Physics*, **2015**, 15, 13849-13893	6.8	112
39	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign. *Atmospheric Chemistry and Physics*, **2015**, 15, 11327-11340	6.8	17
38	3-year chemical composition of free tropospheric PM1 at the Mt. Cimone GAW global station South Europe 2165 m a.s.l.. *Atmospheric Environment*, **2014**, 87, 218-227	5.3	23
37	On the water-soluble organic nitrogen concentration and mass size distribution during the fog season in the Po Valley, Italy. *Science of the Total Environment*, **2014**, 485-486, 103-109	10.2	19
36	Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?. *Atmospheric Chemistry and Physics*, **2014**, 14, 10687-10704	6.8	32
35	Fog scavenging of organic and inorganic aerosol in the Po Valley. *Atmospheric Chemistry and Physics* , **2014**, 14, 6967-6981	6.8	80
34	Fog occurrence and chemical composition in the Po valley over the last twenty years. *Atmospheric Environment*, **2014**, 98, 394-401	5.3	47
33	Ocean Atmosphere Interactions of Particles. *Springer Earth System Sciences*, **2014**, 171-246	0.3	21
32	Is chlorophyll-a the best surrogate for organic matter enrichment in submicron primary marine aerosol?. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 4964-4973	4.4	78
31	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	100
30	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. *Journal of Geophysical Research*, **2011**, 116,		72
29	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. *Atmospheric Chemistry and Physics*, **2011**, 11, 8777-8790	6.8	130
28	Quantification of the carbonaceous matter origin in submicron marine aerosol by ¹³C and ¹⁴C isotope analysis. *Atmospheric Chemistry and Physics*, **2011**, 11, 8593-8606	6.8	96
27	Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		77

26	Global Modeling of the Oceanic Source of Organic Aerosols. *Advances in Meteorology*, **2010**, 2010, 1-16	1.7	74
25	Primary and Secondary Organic Marine Aerosol and Oceanic Biological Activity: Recent Results and New Perspectives for Future Studies. *Advances in Meteorology*, **2010**, 2010, 1-10	1.7	149
24	Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.). *Atmospheric Chemistry and Physics*, **2010**, 10, 4583-4596	6.8	119
23	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview. *Atmospheric Chemistry and Physics*, **2010**, 10, 8413-8435	6.8	56
22	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. *Atmospheric Environment*, **2010**, 44, 670-677	5.3	161
21	Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions. *Atmospheric Environment*, **2010**, 44, 5269-5278	5.3	88
20	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head case study. *Atmospheric Chemistry and Physics*, **2009**, 9, 9635-9646	6.8	39
19	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. *Geophysical Research Letters*, **2008**, 35,	4.9	329
18	Important source of marine secondary organic aerosol from biogenic amines. *Environmental Science & Technology*, **2008**, 42, 9116-21	10.3	295
17	NMR determination of total carbonyls and carboxyls: a tool for tracing the evolution of atmospheric oxidized organic aerosols. *Environmental Science & Technology*, **2008**, 42, 4844-9	10.3	38
16	An anion-exchange high-performance liquid chromatography method coupled to total organic carbon determination for the analysis of water-soluble organic aerosols. *Journal of Chromatography A*, **2007**, 1149, 385-9	4.5	9
15	Chemical Characterization and Source Apportionment of Size-Segregated Aerosol Collected at an Urban Site in Sicily. *Water, Air, and Soil Pollution*, **2007**, 185, 311-321	2.6	37
14	Size-resolved aerosol composition at an urban and a rural site in the Po Valley in summertime: implications for secondary aerosol formation		2
13	Mediterranean nascent sea spray organic aerosol and relationships with seawater biogeochemistry		3
12	A Two-Component Parameterization of Marine Ice Nucleating Particles Based on Seawater Biology and Sea Spray Aerosol Measurements in the Mediterranean Sea		2
11	Wind speed dependent size-resolved parameterization for the organic enrichment of sea spray		2
10	Quantification of the carbonaceous matter origin in submicron marine aerosol particles by dual carbon isotope analysis		7
9	Do anthropogenic or coastal aerosol sources impact on a clean marine aerosol signature at Mace Head?		4

8	Marine submicron aerosol sources, sinks and chemical fluxes		5
7	Fog scavenging of organic and inorganic aerosol in the Po Valley		3
6	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy		2
5	Coastal and open ocean aerosol characteristics: investigating the representativeness of coastal aerosol sampling over the North-East Atlantic Ocean		1
4	Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.)		11
3	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview		2
2	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign		1
1	Sea Ice Microbiota in the Antarctic Peninsula Modulates Cloud-Relevant Sea Spray Aerosol Production. *Frontiers in Marine Science*,9,	4.5	1