Matteo Rinaldi

List of Publications by Year in descending order

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64	4,380	136740	118652
papers	citations	32 h-index	62 g-index

97	97	97	4641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. Geophysical Research Letters, 2008, 35, .	1.5	380
2	Important Source of Marine Secondary Organic Aerosol from Biogenic Amines. Environmental Science & Technology, 2008, 42, 9116-9121.	4.6	349
3	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, 10013-10018.	3.3	243
4	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. Nature, 2017, 546, 637-641.	13.7	232
5	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. Atmospheric Environment, 2010, 44, 670-677.	1.9	196
6	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.	0.6	175
7	Effects of global change during the 21st century on the nitrogen cycle. Atmospheric Chemistry and Physics, 2015, 15, 13849-13893.	1.9	168
8	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. Atmospheric Chemistry and Physics, 2011, 11, 8777-8790.	1.9	150
9	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. Atmospheric Chemistry and Physics, 2017, 17, 3637-3658.	1.9	144
10	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.	1.9	141
11	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	118
12	Quantification of the carbonaceous matter origin in submicron marine aerosol by ¹³C and ¹⁴C isotope analysis. Atmospheric Chemistry and Physics, 2011, 11, 8593-8606.	1.9	114
13	Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions. Atmospheric Environment, 2010, 44, 5269-5278.	1.9	99
14	Fog scavenging of organic and inorganic aerosol in the Po Valley. Atmospheric Chemistry and Physics, 2014, 14, 6967-6981.	1.9	98
15	Marine and Terrestrial Organic Iceâ€Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6196-6212.	1.2	98
16	Global Modeling of the Oceanic Source of Organic Aerosols. Advances in Meteorology, 2010, 2010, 1-16.	0.6	93
17	Is chlorophyllâ€a the best surrogate for organic matter enrichment in submicron primary marine aerosol?. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4964-4973.	1.2	89
18	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. Journal of Geophysical Research, 2011, 116, .	3.3	86

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19	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.	3.3	85
20	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. Scientific Reports, 2015, 5, 14883.	1.6	75
21	Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach. Scientific Reports, 2017, 7, 11475.	1.6	75
22	Fog occurrence and chemical composition in the Po valley over the last twenty years. Atmospheric Environment, 2014, 98, 394-401.	1.9	66
23	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. Scientific Reports, 2017, 7, 6047.	1.6	63
24	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.	1.9	61
25	Extreme air pollution from residential solid fuel burning. Nature Sustainability, 2018, 1, 512-517.	11.5	59
26	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.	1.9	46
27	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.	1.9	45
28	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head â€“ a case study. Atmospheric Chemistry and Physics, 2009, 9, 9635-9646.	1.9	44
29	NMR Determination of Total Carbonyls and Carboxyls: A Tool for Tracing the Evolution of Atmospheric Oxidized Organic Aerosols. Environmental Science & Technology, 2008, 42, 4844-4849.	4.6	42
30	Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?. Atmospheric Chemistry and Physics, 2014, 14, 10687-10704.	1.9	42
31	Characteristics of brown carbon in the urban Po Valley atmosphere. Atmospheric Chemistry and Physics, 2017, 17, 313-326.	1.9	42
32	European aerosol phenomenology â˜ 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. Environment International, 2022, 166, 107325.	4.8	41
33	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.	1.1	39
34	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. Atmospheric Chemistry and Physics, 2016, 16, 8095-8108.	1.9	39
35	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.	1.9	34
36	Simultaneous Detection of Alkylamines in the Surface Ocean and Atmosphere of the Antarctic Sympagic Environment. ACS Earth and Space Chemistry, 2019, 3, 854-862.	1.2	34

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37	3-year chemical composition of free tropospheric PM1 at the Mt. Cimone GAW global station â€“ South Europe â€“ 2165Âm a.s.l.. Atmospheric Environment, 2014, 87, 218-227.	1.9	30
38	Global relevance of marine organic aerosol as ice nucleating particles. Atmospheric Chemistry and Physics, 2018, 18, 11423-11445.	1.9	29
39	Oceanâ€“Atmosphere Interactions of Particles. Springer Earth System Sciences, 2014, , 171-246.	0.1	29
40	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.	1.9	23
41	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.	3.9	21
42	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. Atmospheric Chemistry and Physics, 2020, 20, 4193-4207.	1.9	21
43	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, 2165Âm a.s.l.). Atmospheric Environment, 2016, 141, 139-152.	1.9	17
44	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.	1.8	14
45	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.	1.9	14
46	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. Environmental Science & Technology, 2020, 54, 7807-7817.	4.6	13
47	Marine submicron aerosol gradients, sources and sinks. Atmospheric Chemistry and Physics, 2016, 16, 12425-12439.	1.9	12
48	Mediterranean nascent sea spray organic aerosol and relationships with seawater biogeochemistry. Atmospheric Chemistry and Physics, 2021, 21, 10625-10641.	1.9	12
49	Understanding the environmental factors related to the decrease in Pediatric Emergency Department referrals for acute asthma during the SARSâ€CoVâ€2 pandemic. Pediatric Pulmonology, 2022, 57, 66-74.	1.0	12
50	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, 385-389.	1.8	11
51	Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165Âm a.s.l., Italy). Atmospheric Environment, 2017, 171, 173-180.	1.9	11
52	Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. Atmospheric Research, 2020, 237, 104837.	1.8	11
53	Linking Marine Biological Activity to Aerosol Chemical Composition and Cloudâ€Relevant Properties Over the North Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032246.	1.2	10
54	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.	1.9	10

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55	Marine and urban influences on summertime PM2.5 aerosol in the Po basin using mobile measurements. Atmospheric Environment, 2015, 120, 447-454.	1.9	9
56	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.	1.9	9
57	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.	4.6	9
58	Evaluating the Impact of a Wall-Type Green Infrastructure on PM10 and NOx Concentrations in an Urban Street Environment. Atmosphere, 2021, 12, 839.	1.0	9
59	Ice-nucleating particle concentration measurements from Ny-Ã…lesund during the Arctic springâ€“summer in 2018. Atmospheric Chemistry and Physics, 2021, 21, 14725-14748.	1.9	8
60	On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol: Phenomenology. Atmosphere, 2022, 13, 704.	1.0	7
61	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. Atmospheric Research, 2019, 219, 57-64.	1.8	6
62	Leaching material from Antarctic seaweeds and penguin guano affects cloud-relevant aerosol production. Science of the Total Environment, 2022, 831, 154772.	3.9	3
63	Phytoplankton Impact on Marine Cloud Microphysical Properties Over the Northeast Atlantic Ocean. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	3
64	Sea Ice Microbiota in the Antarctic Peninsula Modulates Cloud-Relevant Sea Spray Aerosol Production. Frontiers in Marine Science, 0, 9, .	1.2	3