

Matteo Rinaldi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	329
78	Important source of marine secondary organic aerosol from biogenic amines. <i>Environmental Science & Technology</i> , 2008 , 42, 9116-21	10.3	295
77	Direct observation of aqueous secondary organic aerosol from biomass-burning emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10013-8	11.5	170
76	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. <i>Nature</i> , 2017 , 546, 637-641	50.4	162
75	Global scale emission and distribution of sea-spray aerosol: Sea-salt and organic enrichment. <i>Atmospheric Environment</i> , 2010 , 44, 670-677	5.3	161
74	Primary and Secondary Organic Marine Aerosol and Oceanic Biological Activity: Recent Results and New Perspectives for Future Studies. <i>Advances in Meteorology</i> , 2010 , 2010, 1-10	1.7	149
73	Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8777-8790	6.8	130
72	Chemical composition of PM ₁₀ and PM ₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4583-4596	6.8	119
71	Effects of global change during the 21st century on the nitrogen cycle. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13849-13893	6.8	112
70	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3637-3658	6.8	107
69	Primary marine organic aerosol: A dichotomy of low hygroscopicity and high CCN activity. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	100
68	Quantification of the carbonaceous matter origin in submicron marine aerosol by ¹³ C and ¹⁴ C isotope analysis. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8593-8606	6.8	96
67	Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions. <i>Atmospheric Environment</i> , 2010 , 44, 5269-5278	5.3	88
66	Fog scavenging of organic and inorganic aerosol in the Po Valley. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6967-6981	6.8	80
65	Is chlorophyll-a the best surrogate for organic matter enrichment in submicron primary marine aerosol?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4964-4973	4.4	78
64	Primary and secondary marine organic aerosols over the North Atlantic Ocean during the MAP experiment. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		77
63	Global Modeling of the Oceanic Source of Organic Aerosols. <i>Advances in Meteorology</i> , 2010 , 2010, 1-16	1.7	74

62	Marine and Terrestrial Organic Ice-Nucleating Particles in Pristine Marine to Continentally Influenced Northeast Atlantic Air Masses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 6196-6212	4.4	72
61	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. <i>Journal of Geophysical Research</i> , 2011 , 116,		72
60	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. <i>Scientific Reports</i> , 2015 , 5, 14883	4.9	58
59	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8413-8435	6.8	56
58	Fog occurrence and chemical composition in the Po valley over the last twenty years. <i>Atmospheric Environment</i> , 2014 , 98, 394-401	5.3	47
57	Transfer of labile organic matter and microbes from the ocean surface to the marine aerosol: an experimental approach. <i>Scientific Reports</i> , 2017 , 7, 11475	4.9	45
56	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. <i>Scientific Reports</i> , 2017 , 7, 6047	4.9	43
55	A three-year investigation of daily PM _{2.5} main chemical components in four sites: the routine measurement program of the Supersito Project (Po Valley, Italy). <i>Atmospheric Environment</i> , 2017 , 152, 418-430	5.3	40
54	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head a case study. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9635-9646	6.8	39
53	NMR determination of total carbonyls and carboxyls: a tool for tracing the evolution of atmospheric oxidized organic aerosols. <i>Environmental Science & Technology</i> , 2008 , 42, 4844-9	10.3	38
52	Chemical Characterization and Source Apportionment of Size-Segregated Aerosol Collected at an Urban Site in Sicily. <i>Water, Air, and Soil Pollution</i> , 2007 , 185, 311-321	2.6	37
51	Characteristics of brown carbon in the urban Po Valley atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 313-326	6.8	34
50	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8095-8108	6.8	34
49	Do anthropogenic, continental or coastal aerosol sources impact on a marine aerosol signature at Mace Head?. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10687-10704	6.8	32
48	Extreme air pollution from residential solid fuel burning. <i>Nature Sustainability</i> , 2018 , 1, 512-517	22.1	31
47	Size-resolved aerosol composition at an urban and a rural site in the Po Valley in summertime: implications for secondary aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10879-10897	6.8	27
46	The impact of biomass burning and aqueous-phase processing on air quality: a multi-year source apportionment study in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1233-1254	6.8	26
45	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	3.2	23

44	3-year chemical composition of free tropospheric PM ₁ at the Mt. Cimone GAW global station in South Europe (2165 m a.s.l.). <i>Atmospheric Environment</i> , 2014 , 87, 218-227	5.3	23
43	Ocean–Atmosphere Interactions of Particles. <i>Springer Earth System Sciences</i> , 2014 , 171-246	0.3	21
42	Global relevance of marine organic aerosol as ice nucleating particles. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11423-11445	6.8	21
41	On the water-soluble organic nitrogen concentration and mass size distribution during the fog season in the Po Valley, Italy. <i>Science of the Total Environment</i> , 2014 , 485-486, 103-109	10.2	19
40	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11327-11340	6.8	17
39	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.). <i>Atmospheric Environment</i> , 2016 , 141, 139-152	5.3	15
38	Ground level ice nuclei particle measurements including Saharan dust events at a Po Valley rural site (San Pietro Capofiume, Italy). <i>Atmospheric Research</i> , 2017 , 186, 116-126	5.4	13
37	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	6.8	13
36	Effects of global change during the 21st century on the nitrogen cycle 2015 ,		12
35	Chemical composition of PM ₁₀ and PM _{2.5} at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.)		11
34	Marine and urban influences on summertime PM _{2.5} aerosol in the Po basin using mobile measurements. <i>Atmospheric Environment</i> , 2015 , 120, 447-454	5.3	9
33	An anion-exchange high-performance liquid chromatography method coupled to total organic carbon determination for the analysis of water-soluble organic aerosols. <i>Journal of Chromatography A</i> , 2007 , 1149, 385-9	4.5	9
32	Atmospheric Ice Nucleating Particle measurements at the high mountain observatory Mt. Cimone (2165 m a.s.l., Italy). <i>Atmospheric Environment</i> , 2017 , 171, 173-180	5.3	8
31	Contribution of Water-Soluble Organic Matter from Multiple Marine Geographic Eco-Regions to Aerosols around Antarctica. <i>Environmental Science & Technology</i> , 2020 , 54, 7807-7817	10.3	8
30	Marine submicron aerosol gradients, sources and sinks. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12425-12439	6.8	8
29	Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14091-14106	6.8	8
28	Quantification of the carbonaceous matter origin in submicron marine aerosol particles by dual carbon isotope analysis		7
27	Linking Marine Biological Activity to Aerosol Chemical Composition and Cloud-Relevant Properties Over the North Atlantic Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032246	11.4	5

26	Marine submicron aerosol sources, sinks and chemical fluxes		5
25	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. <i>Atmospheric Research</i> , 2019 , 219, 57-64	5-4	5
24	An evaluation of the performance of a green panel in improving air quality, the case study in a street canyon in Modena, Italy. <i>Atmospheric Environment</i> , 2021 , 247, 118189	5-3	5
23	Do anthropogenic or coastal aerosol sources impact on a clean marine aerosol signature at Mace Head?		4
22	Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. <i>Atmospheric Research</i> , 2020 , 237, 104837	5-4	4
21	Historical Changes in Seasonal Aerosol Acidity in the Po Valley (Italy) as Inferred from Fog Water and Aerosol Measurements. <i>Environmental Science & Technology</i> , 2021 , 55, 7307-7315	10-3	4
20	Mediterranean nascent sea spray organic aerosol and relationships with seawater biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10625-10641	6.8	4
19	Mediterranean nascent sea spray organic aerosol and relationships with seawater biogeochemistry		3
18	Fog scavenging of organic and inorganic aerosol in the Po Valley		3
17	Understanding the environmental factors related to the decrease in Pediatric Emergency Department referrals for acute asthma during the SARS-CoV-2 pandemic. <i>Pediatric Pulmonology</i> , 2022 , 57, 66-74	3-5	3
16	A two-component parameterization of marine ice-nucleating particles based on seawater biology and sea spray aerosol measurements in the Mediterranean Sea. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4659-4676	6.8	3
15	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations 2016 ,		2
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	A Two-Component Parameterization of Marine Ice Nucleating Particles Based on Seawater Biology and Sea Spray Aerosol Measurements in the Mediterranean Sea		2
12	Wind speed dependent size-resolved parameterization for the organic enrichment of sea spray		2
11	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy		2
10	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview		2
9	Evaluating the Impact of a Wall-Type Green Infrastructure on PM10 and NOx Concentrations in an Urban Street Environment. <i>Atmosphere</i> , 2021 , 12, 839	2-7	2

8	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
7	Coastal and open ocean aerosol characteristics: investigating the representativeness of coastal aerosol sampling over the North-East Atlantic Ocean		1
6	Ice-nucleating particle concentration measurements from Ny-Ålesund during the Arctic spring/summer in 2018. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14725-14748	6.8	1
5	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign		1
4	On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol: Phenomenology. <i>Atmosphere</i> , 2022 , 13, 704	2.7	1
3	European Aerosol Phenomenology - 8: Harmonised Source Apportionment of Organic Aerosol using 22 Year-long ACSM/AMS Datasets. <i>Environment International</i> , 2022 , 107325	12.9	1
2	Sea Ice Microbiota in the Antarctic Peninsula Modulates Cloud-Relevant Sea Spray Aerosol Production. <i>Frontiers in Marine Science</i> ,9,	4.5	1
1	Leaching material from Antarctic seaweeds and penguin guano affects cloud-relevant aerosol production.. <i>Science of the Total Environment</i> , 2022 , 154772	10.2	