

Maria Cristina Facchini

List of Publications by Citations

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166
papers

18,371
citations

66
h-index

135
g-index

189
ext. papers

20,207
ext. citations

6.7
avg, IF

5.73
L-index

#	Paper	IF	Citations
166	Organic aerosol and global climate modelling: a review. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 10536-10552	11.23	2482
165	Biogenically driven organic contribution to marine aerosol. <i>Nature</i> , 2004 , 431, 676-80	50.4	761
164	A European aerosol phenomenology II: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004 , 38, 2579-2595	5.3	744
163	Cloud albedo enhancement by surface-active organic solutes in growing droplets. <i>Nature</i> , 1999 , 401, 257-259	50.4	598
162	The effect of physical and chemical aerosol properties on warm cloud droplet activation. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2593-2649	6.8	571
161	Atmospheric composition change: Ecosystems and atmosphere interactions. <i>Atmospheric Environment</i> , 2009 , 43, 5193-5267	5.3	506
160	Particulate matter, air quality and climate: lessons learned and future needs. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8217-8299	6.8	462
159	Inorganic, organic and macromolecular components of fine aerosol in different areas of Europe in relation to their water solubility. <i>Atmospheric Environment</i> , 1999 , 33, 2733-2743	5.3	405
158	A European aerosol phenomenology I: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004 , 38, 2561-2577	5.3	381
157	Water-soluble organic compounds in biomass burning aerosols over Amazonia 1. Characterization by NMR and GC-MS. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 14-1		368
156	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	329
155	Water-soluble organic compounds in biomass burning aerosols over Amazonia 2. Apportionment of the chemical composition and importance of the polyacidic fraction. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 59-1		313
154	Characterization of water-soluble organic compounds in atmospheric aerosol: A new approach. <i>Journal of Geophysical Research</i> , 2000 , 105, 1481-1489		313
153	Important source of marine secondary organic aerosol from biogenic amines. <i>Environmental Science & Technology</i> , 2008 , 42, 9116-21	10.3	295
152	Advances in characterization of size-resolved organic matter in marine aerosol over the North Atlantic. <i>Journal of Geophysical Research</i> , 2004 , 109,		287
151	Hygroscopic growth and critical supersaturations for mixed aerosol particles of inorganic and organic compounds of atmospheric relevance. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1937-1952	6.8	256
150	Surface tension of atmospheric wet aerosol and cloud/fog droplets in relation to their organic carbon content and chemical composition. <i>Atmospheric Environment</i> , 2000 , 34, 4853-4857	5.3	252

149	Characterization of the organic composition of aerosols from Rondônia, Brazil, during the LBA-SMOCC 2002 experiment and its representation through model compounds. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 375-402	6.8	236
148	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13061-13143	6.8	231
147	Chemical features and seasonal variation of fine aerosol water-soluble organic compounds in the Po Valley, Italy. <i>Atmospheric Environment</i> , 2001 , 35, 3691-3699	5.3	230
146	On the roles of sulphuric acid and low-volatility organic vapours in the initial steps of atmospheric new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11223-11242	6.8	214
145	EUCAARI ion spectrometer measurements at 12 European sites Analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7907-7927	6.8	204
144	Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal Climate Observatory-Pyramid (5079 m). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7515-7531	6.8	202
143	Water soluble organic compounds formed by oxidation of soot. <i>Atmospheric Environment</i> , 2002 , 36, 1827-1832	5.3	202
142	The role of VOC oxidation products in continental new particle formation. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2657-2665	6.8	175
141	Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosols. <i>Journal of Geophysical Research</i> , 2007 , 112,		173
140	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
139	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. <i>Nature</i> , 2017 , 546, 637-641	50.4	162
138	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
137	Cloud condensation nucleus production from nucleation events at a highly polluted region. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	160
136	Partitioning of the organic aerosol component between fog droplets and interstitial air. <i>Journal of Geophysical Research</i> , 1999 , 104, 26821-26832		159
135	Nucleation and growth of new particles in Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 355-376	6.8	157
134	A combined organic-inorganic sea-spray source function. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	156
133	Can chemical effects on cloud droplet number rival the first indirect effect?. <i>Geophysical Research Letters</i> , 2002 , 29, 29-1-29-4	4.9	156
132	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

131	Chemical physics. Single-molecule spectroscopy comes of age. <i>Science</i> , 2001 , 292, 1671-2	33.3	144
130	Study of humic-like substances in fog and interstitial aerosol by size-exclusion chromatography and capillary electrophoresis. <i>Atmospheric Environment</i> , 2000 , 34, 4273-4281	5.3	140
129	Source attribution of water-soluble organic aerosol by nuclear magnetic resonance spectroscopy. <i>Environmental Science & Technology</i> , 2007 , 41, 2479-84	10.3	139
128	The water-soluble organic component of size-segregated aerosol, cloud water and wet depositions from Jeju Island during ACE-Asia. <i>Atmospheric Environment</i> , 2005 , 39, 211-222	5.3	137
127	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
126	Size-segregated aerosol mass closure and chemical composition in Monte Cimone (I) during MINATROC. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 889-902	6.8	126
125	High frequency new particle formation in the Himalayas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15666-71	11.5	122
124	A simplified model of the water soluble organic component of atmospheric aerosols. <i>Geophysical Research Letters</i> , 2001 , 28, 4079-4082	4.9	121
123	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
122	Comprehensive characterization of PM _{2.5} aerosols in Singapore. <i>Journal of Geophysical Research</i> , 2003 , 108,		117
121	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
120	Importance of the organic aerosol fraction for modeling aerosol hygroscopic growth and activation: a case study in the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 3111-3126	6.8	109
119	Overview of the inorganic and organic composition of size-segregated aerosol in Rondônia, Brazil, from the biomass-burning period to the onset of the wet season. <i>Journal of Geophysical Research</i> , 2007 , 112,		108
118	Simplification of the representation of the organic component of atmospheric particulates. <i>Faraday Discussions</i> , 2005 , 130, 341-62; discussion 363-86, 519-24	3.6	106
117	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
116	The ABC-Pyramid Atmospheric Research Observatory in Himalaya for aerosol, ozone and halocarbon measurements. <i>Science of the Total Environment</i> , 2008 , 391, 252-61	10.2	97
115	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
114	Mass closure on the chemical species in size-segregated atmospheric aerosol collected in an urban area of the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 623-637	6.8	91

113	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
112	Molecular Characterization of the Water-Soluble Organic Compounds in Fogwater by ESIMS/MS. <i>Environmental Science & Technology</i> , 2003 , 37, 1229-1240	10.3	83
111	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	82
110	Fog scavenging of organic and inorganic aerosol in the Po Valley. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6967-6981	6.8	80
109	Chemical characterization of springtime submicrometer aerosol in Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8401-8421	6.8	79
108	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
107	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
106	Aerosol chemical characteristics from sampling conducted on the Island of Jeju, Korea during ACE Asia. <i>Atmospheric Environment</i> , 2004 , 38, 2111-2123	5.3	77
105	Global Modeling of the Oceanic Source of Organic Aerosols. <i>Advances in Meteorology</i> , 2010 , 2010, 1-16	1.7	74
104	Combined determination of the chemical composition and of health effects of secondary organic aerosols: the POLYSOA project. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2008 , 21, 145-54 ⁸		74
103	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. <i>Journal of Geophysical Research</i> , 2011 , 116,		72
102	Aerosol liquid water driven by anthropogenic nitrate: implications for lifetimes of water-soluble organic gases and potential for secondary organic aerosol formation. <i>Environmental Science & Technology</i> , 2014 , 48, 11127-36	10.3	70
101	The Kleiner Feldberg Cloud Experiment 1990. An overview. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 3-35	3.2	67
100	Soluble organic compounds in fog and cloud droplets: what have we learned over the past few years?. <i>Atmospheric Research</i> , 2002 , 64, 89-98	5.4	64
99	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1988 , 40B, 348-357	3.3	64
98	Night-time formation and occurrence of new particles associated with orographic clouds. <i>Atmospheric Environment</i> , 1997 , 31, 2545-2559	5.3	63
97	Light absorption properties of brown carbon in the high Himalayas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 9621-9639	4.4	61
96	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 448-468	3.3	61

95	The great dun fell cloud experiment 1993: An overview. <i>Atmospheric Environment</i> , 1997 , 31, 2393-2405	5.3	60
94	The influence of the organic aerosol component on CCN supersaturation spectra for different aerosol types. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002 , 54, 74-81	3.3	60
93	Heterogeneous processes in the Po Valley radiation fog. <i>Journal of Geophysical Research</i> , 1988 , 93, 11141		59
92	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
91	Functional group analysis by H NMR/chemical derivatization for the characterization of organic aerosol from the SMOCC field campaign. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1003-1019	6.8	58
90	Experimental evidence for in-cloud production of aerosol sulphate. <i>Atmospheric Environment</i> , 1997 , 31, 2503-2514	5.3	57
89	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
88	Size-segregated aerosol chemical composition at a boreal site in southern Finland, during the QUEST project. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 993-1002	6.8	56
87	Cloud processing of soluble gases. <i>Atmospheric Environment</i> , 1997 , 31, 2589-2598	5.3	50
86	Observations and modelling of the processing of aerosol by a hill cap cloud. <i>Atmospheric Environment</i> , 1997 , 31, 2527-2543	5.3	49
85	Characterisation of polar organic compounds in fog water. <i>Atmospheric Environment</i> , 2001 , 35, 2193-2200	5.3	49
84	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
83	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 489-504	3.3	46
82	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
81	Henry's law and the behavior of weak acids and bases in fog and cloud. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 173-188	3.2	45
80	The size-dependent chemical composition of cloud droplets. <i>Atmospheric Environment</i> , 1997 , 31, 2561-2576	5.3	44
79	The NEVALPA project: A regional network for fog chemical climatology over the PO Valley basin. <i>Atmospheric Environment</i> , 1996 , 30, 201-213	5.3	44
78	Identification of humic-like substances (HULIS) in oxygenated organic aerosols using NMR and AMS factor analyses and liquid chromatographic techniques. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 25-45	6.8	43

77	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. <i>Scientific Reports</i> , 2017 , 7, 6047	4.9	43
76	Hygroscopic properties of Amazonian biomass burning and European background HULIS and investigation of their effects on surface tension with two models linking H-TDMA to CCNC data. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5625-5639	6.8	42
75	Determination of the biogenic secondary organic aerosol fraction in the boreal forest by NMR spectroscopy. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 941-959	6.8	42
74	Solubility properties of surfactants in atmospheric aerosol and cloud/fog water samples. <i>Journal of Geophysical Research</i> , 2003 , 108,		41
73	ACE-2 HILLCLOUD. An overview of the ACE-2 ground-based cloud experiment. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 750-778	3.3	41
72	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12109-12132	6.8	39
71	Primary and secondary biomass burning aerosols determined by proton nuclear magnetic resonance ($^1\text{H-NMR}$) spectroscopy during the 2008 EUCAARI campaign in the Po Valley (Italy). <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5089-5110	6.8	39
70	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head \square case study. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9635-9646	6.8	39
69	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
68	Binary homogeneous nucleation in water-succinic acid and water-glutaric acid systems. <i>Journal of Chemical Physics</i> , 2004 , 120, 282-91	3.9	38
67	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
66	Multiphase chemistry and acidity of clouds at Kleiner Feldberg. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 87-106	3.2	37
65	Molecular insights on aging and aqueous-phase processing from ambient biomass burning emissions-influenced Po Valley fog and aerosol. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13197-13214	6.8	35
64	Characteristics of brown carbon in the urban Po Valley atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 313-326	6.8	34
63	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
62	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 545-555	3.3	33
61	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
60	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 533-544	3.3	32

59	How much is particulate matter near the ground influenced by upper-level processes within and above the PBL? A summertime case study in Milan (Italy) evidences the distinctive role of nitrate. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2629-2649	6.8	31
58	Computer modelling of clouds at Kleiner Feldberg. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 189-229	3.2	31
57	Enhanced toxicity of aerosol in fog conditions in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7721-7731	6.8	30
56	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. <i>Scientific Reports</i> , 2019 , 9, 11824	4.9	29
55	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
54	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
53	Meteorological and trace gas factors affecting the number concentration of atmospheric Aitken ($D_{p,sub}$ = 50 nm) particles in the continental boundary layer: parameterization using a multivariate mixed effects model. <i>Geoscientific Model Development</i> , 2011 , 4, 1-13	6.3	26
52	Microphysics of clouds: Model vs measurements. <i>Atmospheric Environment</i> , 1997 , 31, 2453-2462	5.3	25
51	Chemical Composition of Cloud Water in the Puerto Rican Tropical Trade Wind Cumuli. <i>Water, Air, and Soil Pollution</i> , 2009 , 200, 3-14	2.6	24
50	3-year chemical composition of free tropospheric PM1 at the Mt. Cimone GAW global station □ South Europe □ 165 m a.s.l.. <i>Atmospheric Environment</i> , 2014 , 48, 218-227	5.3	23
49	The reduced nitrogen budget of an orographic cloud. <i>Atmospheric Environment</i> , 1997 , 31, 2599-2614	5.3	23
48	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
47	Comments on Influence of Soluble Surfactant Properties on the Activation of Aerosol Particles Containing Inorganic Solute □ <i>Journals of the Atmospheric Sciences</i> , 2001 , 58, 1465-1467	2.1	19
46	Seasonal trend of fog water chemical composition in the Po Valley. <i>Environmental Pollution</i> , 1992 , 75, 75-80	9.3	19
45	The influence of the organic aerosol component on CCN supersaturation spectra for different aerosol types. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002 , 54, 74-81	3.3	18
44	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 505-521	3.3	17
43	An improved HPLC method for carbonyl compound speciation in the atmospheric liquid phase. <i>Chemosphere</i> , 1986 , 15, 667-674	8.4	17
42	The budget of oxidised nitrogen species in orographic clouds. <i>Atmospheric Environment</i> , 1997 , 31, 2625-2636	3.6	16

41	Source identification during the Great Dun Fell cloud experiment 1993. <i>Atmospheric Environment</i> , 1997 , 31, 2441-2451	5.3	15
40	An automatic station for fog water collection. <i>Atmospheric Environment Part A General Topics</i> , 1990 , 24, 2609-2614		15
39	Chemistry of carbonyl compounds in Po Valley fog water. <i>Science of the Total Environment</i> , 1990 , 91, 79-86	10.2	15
38	Determination of formaldehyde as its lutidine derivative in the atmospheric liquid phase by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1985 , 333, 262-268	4.5	15
37	Partitioning of metals between the aqueous phase and suspended insoluble material in fog droplets. <i>Annali Di Chimica</i> , 2005 , 95, 275-90		14
36	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
35	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 469-488	3.3	13
34	Particulate matter, air quality and climate: lessons learned and future needs		12
33	Combined Determination of the Chemical Composition and of Health Effects of Secondary Organic Aerosols: The POLYSOA Project. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2008 , 080207080519480-10		12
32	Vertical profiling of aerosol hygroscopic properties in the planetary boundary layer during the PEGASOS campaigns. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7295-7315	6.8	11
31	In situ physical and chemical characterisation of the Eyjafjallajökull aerosol plume in the free troposphere over Italy. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1075-1092	6.8	11
30	Identification of levoglucosan and related stereoisomers in fog water as a biomass combustion tracer by ESI-MS/MS. <i>Annali Di Chimica</i> , 2004 , 94, 911-9		10
29	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
28	Behaviour of 3-methyl-2-benzothiazolone azines of carbonyl compounds in high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1987 , 387, 459-66	4.5	9
27	Comment on On the use of anion exchange chromatography for the characterization of water soluble organic carbon by H. Chang et al.. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	8
26	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
25	Impact of Air Pollution Controls on Radiation Fog Frequency in the Central Valley of California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 5889	4.4	7
24	Identification of new particle formation events with deep learning. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9597-9615	6.8	7

23	Vertical gradients of dissolved chemical constituents in evaporating clouds. <i>Atmospheric Environment</i> , 1997 , 31, 2577-2588	5-3	6
22	The liquid water content of a radiation fog measured by an FSSP 100 optical probe and a fog impactor. <i>Science of the Total Environment</i> , 1988 , 77, 133-140	10.2	6
21	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	4.4	5
20	Extractable iron and organic matter in the suspended insoluble material of fog droplets. <i>Water, Air, and Soil Pollution</i> , 2006 , 174, 303-320	2.6	5
19	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. <i>Atmospheric Research</i> , 2019 , 219, 57-64	5-4	5
18	Simulation of size-segregated aerosol chemical composition over northern Italy in clear sky and wind calm conditions. <i>Atmospheric Research</i> , 2013 , 125-126, 1-11	5-4	4
17	Do anthropogenic or coastal aerosol sources impact on a clean marine aerosol signature at Mace Head?		4
16	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
15	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
14	Analytical formulas for the below-cloud scavenging coefficient of an irreversibly soluble gas: a quantitative evaluation for HNO ₃ . <i>International Journal of Environment and Pollution</i> , 2004 , 21, 547	0.7	3
13	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 304-310	3-3	2
12	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 522-532	3-3	2
11	Characterization of atmospheric particulate matter over the eastern Mediterranean sea. <i>Journal of Aerosol Science</i> , 1989 , 20, 1241-1244	4-3	2
10	Size-resolved aerosol composition at an urban and a rural site in the Po Valley in summertime: implications for secondary aerosol formation		2
9	Primary and secondary biomass burning aerosols determined by proton nuclear magnetic resonance (H-NMR) spectroscopy during the 2008 EUCAARI campaign in the Po Valley (Italy)		2
8	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques		2
7	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy		2
6	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

5	10 The ABC-Pyramid: a scientific laboratory at 5079 m a.s.l. for the study of atmospheric composition change and climate. <i>Developments in Earth Surface Processes</i> , 2007 , 10, 67-75	2.8	1
4	How much is particulate matter near the ground influenced by upper level processes within and above the PBL? A summertime case study in Milan (Italy)		1
3	Identification of humic-like substances (HULIS) in oxygenated organic aerosols using NMR and AMS factor analyses and liquid chromatographic techniques		1
2	On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol: Phenomenology. <i>Atmosphere</i> , 2022 , 13, 704	2.7	1
1	Saharan Dust over Italy: Simulations with Regional Air Quality Model BOLCHEM. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008 , 687-688		