Stefano Decesari

List of Publications by Year in Descending Order

143 papers	11,470 citations	56 h-index	106 g-index
154 ext. papers	12,704 ext. citations	7.7 avg, IF	5.38 L-index

#	Paper	IF	Citations
143	New particle formation event detection with Mask R-CNN. *Atmospheric Chemistry and Physics*, **2022**, 22, 1293-1309	6.8	3
142	Tropical and Boreal Forest Atmosphere Interactions: A Review. *Tellus, Series B: Chemical and Physical Meteorology*, **2022**, 74, 24-163	3.3	1
141	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
140	Aerosol Toxins Emitted by Harmful Algal Blooms Susceptible to Complex Air-Sea Interactions. *Environmental Science & Technology*, **2021**, 55, 468-477	10.3	8
139	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
138	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer. *Atmospheric Chemistry and Physics*, **2021**, 21, 12649-12663	6.8	5
137	Chemical composition and radiative forcing of atmospheric aerosols over the high-altitude Western Himalayas of India. *Environmental Science and Pollution Research*, **2021**, 1	5.1	0
136	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
135	Ultrafine Particle Features Associated with Pro-Inflammatory and Oxidative Responses: Implications for Health Studies. *Atmosphere*, **2020**, 11, 414	2.7	7
134	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
133	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
132	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
131	Particulate methanesulfonic acid over the central Mediterranean Sea: Source region identification and relationship with phytoplankton activity. *Atmospheric Research*, **2020**, 237, 104837	5.4	4
130	Global Importance of Hydroxymethanesulfonate in Ambient Particulate Matter: Implications for Air Quality. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032706	4.4	14
129	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
128	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
127	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. *Scientific Reports*, **2019**, 9, 11824	4.9	29

126	Long-term cloud condensation nuclei number concentration, particle number size distribution and chemical composition measurements at regionally representative observatories. *Atmospheric Chemistry and Physics*, **2018**, 18, 2853-2881	6.8	62
125	The "D. Vittori" Observatory at Mt. Cimone: A "lighthouse" for the Mediterranean Troposphere. *SpringerBriefs in Meteorology*, **2018**, 1-14		1
124	Investigation of Atmospheric Reactive Gases at Mt. Cimone. *SpringerBriefs in Meteorology*, **2018**, 45-73		1
123	Aerosol Chemical Composition at the Mt. Cimone WMO/GAW Global Station. *SpringerBriefs in Meteorology*, **2018**, 99-118		
122	Vertical distribution of aerosol optical properties in the Po Valley during the 2012 summer campaigns. *Atmospheric Chemistry and Physics*, **2018**, 18, 5371-5389	6.8	8
121	Identification of new particle formation events with deep learning. *Atmospheric Chemistry and Physics*, **2018**, 18, 9597-9615	6.8	7
120	Molecular insights on aging and aqueous-phase processing from ambient biomass burning emissions-influenced Po Valley fog and aerosol. *Atmospheric Chemistry and Physics*, **2018**, 18, 13197-13214	6.8	35
119	Results of an interlaboratory comparison of analytical methods for quantification of anhydrosugars and biosugars in atmospheric aerosol. *Chemosphere*, **2017**, 184, 269-277	8.4	6
118	Surface tension prevails over solute effect in organic-influenced cloud droplet activation. *Nature*, **2017**, 546, 637-641	50.4	162
117	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
116	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
115	Antarctic sea ice region as a source of biogenic organic nitrogen in aerosols. *Scientific Reports*, **2017**, 7, 6047	4.9	43
114	Enhanced toxicity of aerosol in fog conditions in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2017**, 17, 7721-7731	6.8	30
113	Characterizing source fingerprints and ageing processes in laboratory-generated secondary organic aerosols using proton-nuclear magnetic resonance (¹H-NMR) analysis and HPLC HULIS determination. *Atmospheric Chemistry and Physics*, **2017**, 17, 10405-10421	6.8	8
112	Characterizing source fingerprints and ageing processes in laboratory-generated secondary organic aerosols using proton-nuclear magnetic resonance (¹H-NMR) analysis and HPLC HULIS determination **2017**,		1
111	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
110	Light absorption properties of brown carbon in the high Himalayas. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 9621-9639	4.4	61
109	Vertical profiling of aerosol hygroscopic properties in the planetary boundary layer during the PEGASOS campaigns. *Atmospheric Chemistry and Physics*, **2016**, 16, 7295-7315	6.8	11

108	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2016**, 16, 8095-8108	6.8	34
107	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
106	High concentrations of sub-3nm clusters and frequent new particle formation observed in the Po Valley, Italy, during the PEGASOS 2012 campaign. *Atmospheric Chemistry and Physics*, **2016**, 16, 1919-1935	6.8	18
105	On the Origin of AMS "Cooking Organic Aerosol" at a Rural Site. *Environmental Science & Technology*, **2015**, 49, 13964-72	10.3	28
104	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
103	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. *Scientific Reports*, **2015**, 5, 14883	4.9	58
102	Particulate matter, air quality and climate: lessons learned and future needs. *Atmospheric Chemistry and Physics*, **2015**, 15, 8217-8299	6.8	462
101	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
100	The molecular identification of organic compounds in the atmosphere: state of the art and challenges. *Chemical Reviews*, **2015**, 115, 3919-83	68.1	300
99	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
98	Aerosol liquid water driven by anthropogenic nitrate: implications for lifetimes of water-soluble organic gases and potential for secondary organic aerosol formation. *Environmental Science & Technology*, **2014**, 48, 11127-36	10.3	70
97	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
96	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques. *Atmospheric Chemistry and Physics*, **2014**, 14, 12109-12132	6.8	39
95	Primary and secondary biomass burning aerosols determined by proton nuclear magnetic resonance (¹H-NMR) spectroscopy during the 2008 EUCAARI campaign in the Po Valley (Italy). *Atmospheric Chemistry and Physics*, **2014**, 14, 5089-5110	6.8	39
94	In situ physical and chemical characterisation of the Eyjafjallaj ull aerosol plume in the free troposphere over Italy. *Atmospheric Chemistry and Physics*, **2014**, 14, 1075-1092	6.8	11
93	Identification of humic-like substances (HULIS) in oxygenated organic aerosols using NMR and AMS factor analyses and liquid chromatographic techniques. *Atmospheric Chemistry and Physics*, **2014**, 14, 25-45	6.8	43
92	Hygroscopic and chemical characterisation of Po Valley aerosol. *Atmospheric Chemistry and Physics*, **2014**, 14, 1557-1570	6.8	9
91	Fog occurrence and chemical composition in the Po valley over the last twenty years. *Atmospheric Environment*, **2014**, 98, 394-401	5.3	47

90	Does the onset of new particle formation occur in the planetary boundary layer? **2013**,		1
89	Formation and growth of nucleated particles into cloud condensation nuclei: model–measurement comparison. *Atmospheric Chemistry and Physics*, **2013**, 13, 7645-7663	6.8	67
88	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
87	Organic compounds in aerosols from selected European sites – Biogenic versus anthropogenic sources. *Atmospheric Environment*, **2012**, 59, 243-255	5.3	50
86	Chemical characterization of springtime submicrometer aerosol in Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2012**, 12, 8401-8421	6.8	79
85	Determination of the biogenic secondary organic aerosol fraction in the boreal forest by NMR spectroscopy. *Atmospheric Chemistry and Physics*, **2012**, 12, 941-959	6.8	42
84	Speciation of water-soluble inorganic, organic, and total nitrogen in a background marine environment: Cloud water, rainwater, and aerosol particles. *Journal of Geophysical Research*, **2011**, 116,		45
83	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. *Journal of Geophysical Research*, **2011**, 116,		72
82	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – Integrating aerosol research from nano to global scales. *Atmospheric Chemistry and Physics*, **2011**, 11, 13061-13143	6.8	231
81	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. *Atmospheric Chemistry and Physics*, **2011**, 11, 12067-12084	6.8	133
80	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
79	Ground-Based Observing Systems for Atmospheric Aerosol Chemistry and Composition **2011**, 175-187		
78	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
77	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. *Atmospheric Chemistry and Physics*, **2010**, 10, 5625-5639	6.8	42
76	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
75	EUCAARI ion spectrometer measurements at 12 European sites – analysis of new particle formation events. *Atmospheric Chemistry and Physics*, **2010**, 10, 7907-7927	6.8	204
74	Aerosol mass and black carbon concentrations, a two year record at NCO-P (5079 m, Southern Himalayas). *Atmospheric Chemistry and Physics*, **2010**, 10, 8551-8562	6.8	157
73	Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal Climate Observatory-Pyramid (5079 m). *Atmospheric Chemistry and Physics*, **2010**, 10, 7515-7531	6.8	202

72	Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions. *Atmospheric Environment*, **2010**, 44, 5269-5278	5.3	88
71	Chemical Composition of Cloud Water in the Puerto Rican Tropical Trade Wind Cumuli. *Water, Air, and Soil Pollution*, **2009**, 200, 3-14	2.6	24
70	Significant variations of trace gas composition and aerosol properties at Mt. Cimone during air mass transport from North Africa: contributions from wildfire emissions and mineral dust. *Atmospheric Chemistry and Physics*, **2009**, 9, 4603-4619	6.8	48
69	On the representativeness of coastal aerosol studies to open ocean studies: Mace Head: a case study. *Atmospheric Chemistry and Physics*, **2009**, 9, 9635-9646	6.8	39
68	The ABC-Pyramid Atmospheric Research Observatory in Himalaya for aerosol, ozone and halocarbon measurements. *Science of the Total Environment*, **2008**, 391, 252-61	10.2	97
67	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. *Geophysical Research Letters*, **2008**, 35, n/a-n/a	4.9	82
66	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. *Geophysical Research Letters*, **2008**, 35,	4.9	329
65	Important source of marine secondary organic aerosol from biogenic amines. *Environmental Science & Technology*, **2008**, 42, 9116-21	10.3	295
64	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
63	Combined determination of the chemical composition and of health effects of secondary organic aerosols: the POLYSOA project. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*, **2008**, 21, 145-54	3.8	74
62	High frequency new particle formation in the Himalayas. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 15666-71	11.5	122
61	Saharan Dust over Italy: Simulations with Regional Air Quality Model BOLCHEM. *NATO Security Through Science Series C: Environmental Security*, **2008**, 687-688		
60	Source attribution of water-soluble organic aerosol by nuclear magnetic resonance spectroscopy. *Environmental Science & Technology*, **2007**, 41, 2479-84	10.3	139
59	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. *Journal of Geophysical Research*, **2007**, 112,		108
58	Seasonal characteristics of the physicochemical properties of North Atlantic marine atmospheric aerosols. *Journal of Geophysical Research*, **2007**, 112,		173
57	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
56	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
55	Nucleation and growth of new particles in Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2007**, 7, 355-376	6.8	157

54	Surface tensions of multi-component mixed inorganic/organic aqueous systems of atmospheric significance: measurements, model predictions and importance for cloud activation predictions. *Atmospheric Chemistry and Physics*, **2007**, 7, 2371-2398	6.8	76
53	Similarity Between Aerosol Physicochemical Properties at a Coastal Station and Open Ocean over the North Atlantic **2007**, 1098-1101		
52	Chemical Fluxes in North-east Atlantic Air **2007**, 1064-1069		
51	Characterization of the organic composition of aerosols from Rondﾪia, Brazil, during the LBA-SMOCC 2002 experiment and its representation through model compounds. *Atmospheric Chemistry and Physics*, **2006**, 6, 375-402	6.8	236
50	Functional group analysis by H NMR/chemical derivatization for the characterization of organic aerosol from the SMOCC field campaign. *Atmospheric Chemistry and Physics*, **2006**, 6, 1003-1019	6.8	58
49	Hygroscopic growth and critical supersaturations for mixed aerosol particles of inorganic and organic compounds of atmospheric relevance. *Atmospheric Chemistry and Physics*, **2006**, 6, 1937-1952	6.8	256
48	Size-segregated aerosol chemical composition at a boreal site in southern Finland, during the QUEST project. *Atmospheric Chemistry and Physics*, **2006**, 6, 993-1002	6.8	56
47	Extractable iron and organic matter in the suspended insoluble material of fog droplets. *Water, Air, and Soil Pollution*, **2006**, 174, 303-320	2.6	5
46	Simplification of the representation of the organic component of atmospheric particulates. *Faraday Discussions*, **2005**, 130, 341-62; discussion 363-86, 519-24	3.6	106
45	Comment on ﾨOn the use of anion exchange chromatography for the characterization of water soluble organic carbonﾩby H. Chang et al.. *Geophysical Research Letters*, **2005**, 32,	4.9	8
44	Importance of the organic aerosol fraction for modeling aerosol hygroscopic growth and activation: a case study in the Amazon Basin. *Atmospheric Chemistry and Physics*, **2005**, 5, 3111-3126	6.8	109
43	The water-soluble organic component of size-segregated aerosol, cloud water and wet depositions from Jeju Island during ACE-Asia. *Atmospheric Environment*, **2005**, 39, 211-222	5.3	137
42	Partitioning of metals between the aqueous phase and suspended insoluble material in fog droplets. *Annali Di Chimica*, **2005**, 95, 275-90		14
41	Biogenically driven organic contribution to marine aerosol. *Nature*, **2004**, 431, 676-80	50.4	761
40	Aerosol chemical characteristics from sampling conducted on the Island of Jeju, Korea during ACE Asia. *Atmospheric Environment*, **2004**, 38, 2111-2123	5.3	77
39	A European aerosol phenomenology1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. *Atmospheric Environment*, **2004**, 38, 2561-2577	5.3	381
38	A European aerosol phenomenology2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. *Atmospheric Environment*, **2004**, 38, 2579-2595	5.3	744
37	Identification of levoglucosan and related steroisomers in fog water as a biomass combustion tracer by ESI-MS/MS. *Annali Di Chimica*, **2004**, 94, 911-9		10

36	Advances in characterization of size-resolved organic matter in marine aerosol over the North Atlantic. *Journal of Geophysical Research*, **2004**, 109,		287
35	Size-segregated aerosol mass closure and chemical composition in Monte Cimone (I) during MINATROC. *Atmospheric Chemistry and Physics*, **2004**, 4, 889-902	6.8	126
34	Mass closure on the chemical species in size-segregated atmospheric aerosol collected in an urban area of the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2003**, 3, 623-637	6.8	91
33	Comprehensive characterization of PM2.5 aerosols in Singapore. *Journal of Geophysical Research*, **2003**, 108,		117
32	Solubility properties of surfactants in atmospheric aerosol and cloud/fog water samples. *Journal of Geophysical Research*, **2003**, 108,		41
31	Molecular Characterization of the Water-Soluble Organic Compounds in Fogwater by ESIMS/MS. *Environmental Science & Technology*, **2003**, 37, 1229-1240	10.3	83
30	The influence of the organic aerosol component on CCN supersaturation spectra for different aerosol types. *Tellus, Series B: Chemical and Physical Meteorology*, **2002**, 54, 74-81	3.3	18
29	Water soluble organic compounds formed by oxidation of soot. *Atmospheric Environment*, **2002**, 36, 1827-1832	5.3	202
28	The influence of the organic aerosol component on CCN supersaturation spectra for different aerosol types. *Tellus, Series B: Chemical and Physical Meteorology*, **2002**, 54, 74-81	3.3	60
27	Water-soluble organic compounds in biomass burning aerosols over Amazonia 2. Apportionment of the chemical composition and importance of the polyacidic fraction. *Journal of Geophysical Research*, **2002**, 107, LBA 59-1		313
26	Water-soluble organic compounds in biomass burning aerosols over Amazonia 1. Characterization by NMR and GC-MS. *Journal of Geophysical Research*, **2002**, 107, LBA 14-1		368
25	Soluble organic compounds in fog and cloud droplets: what have we learned over the past few years?. *Atmospheric Research*, **2002**, 64, 89-98	5.4	64
24	Chemical features and seasonal variation of fine aerosol water-soluble organic compounds in the Po Valley, Italy. *Atmospheric Environment*, **2001**, 35, 3691-3699	5.3	230
23	A simplified model of the water soluble organic component of atmospheric aerosols. *Geophysical Research Letters*, **2001**, 28, 4079-4082	4.9	121
22	Surface tension of atmospheric wet aerosol and cloud/fog droplets in relation to their organic carbon content and chemical composition. *Atmospheric Environment*, **2000**, 34, 4853-4857	5.3	252
21	Characterization of water-soluble organic compounds in atmospheric aerosol: A new approach. *Journal of Geophysical Research*, **2000**, 105, 1481-1489		313
20	EUCAARI ion spectrometer measurements at 12 European sites □analysis of new-particle formation events		4
19	Atmospheric Brown Clouds in the Himalayas: first two years of continuous observations at the Nepal-Climate Observatory at Pyramid (5079 m)		18

18	Aerosol mass and black carbon concentrations, two year-round observations at NCO-P (5079 m, Southern Himalayas)	16
17	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales	11
16	Determination of the biogenic secondary organic aerosol fraction in the boreal forest by AMS and NMR measurements	1
15	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain	4
14	Chemical characterization of springtime submicrometer aerosol in Po Valley, Italy	2
13	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
12	Measurements of the aerosol chemical composition and mixing state in the Po Valley using multiple spectroscopic techniques	2
11	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy	2
10	Particulate matter, air quality and climate: lessons learned and future needs	12
9	Vertical profiling of aerosol hygroscopic properties in the planetary boundary layer during the PEGASOS campaigns	4
8	Size-segregated aerosol mass closure and chemical composition in Monte Cimone (I) during MINATROC	6
7	Characterization of the organic composition of aerosols from Rondï¿½ia, Brazil, during the LBA-SMOCC 2002 experiment and its representation through model compounds	5
6	Coastal and open ocean aerosol characteristics: investigating the representativeness of coastal aerosol sampling over the North-East Atlantic Ocean	1
5	Chemical composition of PM₁₀ and PM₁ at the high-altitude Himalayan station Nepal Climate Observatory-Pyramid (NCO-P) (5079 m a.s.l.)	11
4	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	1
3	Significant variations of trace gas composition and aerosol properties at Mt. Cimone during air mass transport from North Africa – contributions from wildfire emissions and mineral dust	2
2	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign	1
1	Identification of humic-like substances (HULIS) in oxygenated organic aerosols using NMR and AMS factor analyses and liquid chromatographic techniques	1