Sandro Fuzzi

List of Publications by Citations

79 papers	8,602 citations	38 h-index	89 g-index
89 ext. papers	9,536 ext. citations	7.2 avg, IF	5.22 L-index

#	Paper	IF	Citations
79	Flood or drought: how do aerosols affect precipitation?. *Science*, **2008**, 321, 1309-13	33.3	1352
78	Biogenically driven organic contribution to marine aerosol. *Nature*, **2004**, 431, 676-80	50.4	761
77	A European aerosol phenomenology-2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. *Atmospheric Environment*, **2004**, 38, 2579-2595	5.3	744
76	Cloud albedo enhancement by surface-active organic solutes in growing droplets. *Nature*, **1999**, 401, 257-259	50.4	598
75	Particulate matter, air quality and climate: lessons learned and future needs. *Atmospheric Chemistry and Physics*, **2015**, 15, 8217-8299	6.8	462
74	A European aerosol phenomenology-1: physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. *Atmospheric Environment*, **2004**, 38, 2561-2577	5.3	381
73	Primary submicron marine aerosol dominated by insoluble organic colloids and aggregates. *Geophysical Research Letters*, **2008**, 35,	4.9	329
72	Characterization of water-soluble organic compounds in atmospheric aerosol: A new approach. *Journal of Geophysical Research*, **2000**, 105, 1481-1489		313
71	Important source of marine secondary organic aerosol from biogenic amines. *Environmental Science & Technology*, **2008**, 42, 9116-21	10.3	295
70	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
69	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
68	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
67	Cloud condensation nucleus production from nucleation events at a highly polluted region. *Geophysical Research Letters*, **2005**, 32,	4.9	160
66	Partitioning of the organic aerosol component between fog droplets and interstitial air. *Journal of Geophysical Research*, **1999**, 104, 26821-26832		159
65	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
64	Source attribution of water-soluble organic aerosol by nuclear magnetic resonance spectroscopy. *Environmental Science & Technology*, **2007**, 41, 2479-84	10.3	139
63	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

62	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
61	Spatial and seasonal variability of carbonaceous aerosol across Italy. *Atmospheric Environment*, **2014**, 99, 587-598	5.3	112
60	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
59	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
58	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
57	Molecular Characterization of the Water-Soluble Organic Compounds in Fogwater by ESIMS/MS. *Environmental Science & Technology*, **2003**, 37, 1229-1240	10.3	83
56	Marine aerosol chemistry gradients: Elucidating primary and secondary processes and fluxes. *Geophysical Research Letters*, **2008**, 35, n/a-n/a	4.9	82
55	Fog scavenging of organic and inorganic aerosol in the Po Valley. *Atmospheric Chemistry and Physics* , **2014**, 14, 6967-6981	6.8	80
54	Chemical characterization of springtime submicrometer aerosol in Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2012**, 12, 8401-8421	6.8	79
53	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
52	Evidence of a natural marine source of oxalic acid and a possible link to glyoxal. *Journal of Geophysical Research*, **2011**, 116,		72
51	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
50	Light absorption properties of brown carbon in the high Himalayas. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 9621-9639	4.4	61
49	Heterogeneous processes in the Po Valley radiation fog. *Journal of Geophysical Research*, **1988**, 93, 11141		59
48	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. *Scientific Reports*, **2015**, 5, 14883	4.9	58
47	Changes in aerosol size- and phase distributions due to physical and chemical processes in fog. *Tellus, Series B: Chemical and Physical Meteorology*, **1992**, 44, 489-504	3.3	53
46	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
45	Air quality and climate change: Designing new win-win policies for Europe. *Environmental Science and Policy*, **2016**, 65, 48-57	6.2	42

44	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
43	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
42	Biological fluid dynamics of airborne COVID-19 infection. *Rendiconti Lincei*, **2020**, 31, 1-33	1.7	39
41	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
40	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
39	Enhanced toxicity of aerosol in fog conditions in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2017**, 17, 7721-7731	6.8	30
38	Wet deposition due to fog in the Po Valley, Italy. *Journal of Atmospheric Chemistry*, **1985**, 3, 289-296	3.2	27
37	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
36	Modelling individual preferences for environmental policy drivers: Empirical evidence of Italian lifestyle changes using a latent class approach. *Environmental Science and Policy*, **2016**, 65, 65-74	6.2	26
35	An automated fog water collector suitable for deposition networks: Design, operation and field tests. *Water, Air, and Soil Pollution*, **1997**, 93, 383-394	2.6	24
34	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
33	The Cloud Ice Mountain Experiment (CIME) 1998: experiment overview and modelling of the microphysical processes during the seeding by isentropic gas expansion. *Atmospheric Research*, **2001**, 58, 231-265	5.4	23
32	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
31	Comments on nfluence of Soluble Surfactant Properties on the Activation of Aerosol Particles Containing Inorganic Solute *Journals of the Atmospheric Sciences*, **2001**, 58, 1465-1467	2.1	19
30	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
29	An automatic station for fog water collection. *Atmospheric Environment Part A General Topics*, **1990**, 24, 2609-2614		15
28	Chemistry of carbonyl compounds in Po Valley fog water. *Science of the Total Environment*, **1990**, 91, 79-86	10.2	15
27	Determination of formaldehyde as its lutidine derivative in the atmospheric liquid phase by high-performance liquid chromatography. *Journal of Chromatography A*, **1985**, 333, 262-268	4.5	15

26	Indoor air pollution exposure effects on lung and cardiovascular health in the High Himalayas, Nepal: An observational study. *European Journal of Internal Medicine*, **2019**, 61, 81-87	3.9	15
25	Partitioning of metals between the aqueous phase and suspended insoluble material in fog droplets. *Annali Di Chimica*, **2005**, 95, 275-90		14
24	Particulate matter, air quality and climate: lessons learned and future needs		12
23	In situ physical and chemical characterisation of the Eyjafjallajökull aerosol plume in the free troposphere over Italy. *Atmospheric Chemistry and Physics*, **2014**, 14, 1075-1092	6.8	11
22	Behaviour of H2O2, NH3, and black carbon in mixed-phase clouds during CIME. *Atmospheric Research*, **2001**, 58, 315-336	5.4	11
21	Measurements of the partitioning of hydrogen peroxide in a stratiform cloud1. *Tellus, Series B: Chemical and Physical Meteorology*, **1991**, 43, 280-290	3.3	11
20	Public perception of air pollution sources across Europe. *Ambio*, **2021**, 50, 1150-1158	6.5	11
19	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
18	Behaviour of 3-methyl-2-benzothiazolone azines of carbonyl compounds in high-performance liquid chromatography. *Journal of Chromatography A*, **1987**, 387, 459-66	4.5	9
17	Comment on "On the use of anion exchange chromatography for the characterization of water soluble organic carbon" by H. Chang et al.. *Geophysical Research Letters*, **2005**, 32,	4.9	8
16	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
15	Air quality from a social perspective in four European metropolitan areas: Research hypothesis and evidence from the SEFIRA project. *Environmental Science and Policy*, **2016**, 65, 58-64	6.2	4
14	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
13	An Automated Fog Water Collector Suitable for Deposition Networks: Design, Operation and Field Tests. *Water, Air, and Soil Pollution*, **1997**, 93, 383-394	2.6	3
12	Analytical formulas for the below-cloud scavenging coefficient of an irreversibly soluble gas: a quantitative evaluation for HNO3. *International Journal of Environment and Pollution*, **2004**, 21, 547	0.7	3
11	Reconstructing Elemental Carbon Long-Term Trend in the Po Valley (Italy) from Fog Water Samples. *Atmosphere*, **2020**, 11, 580	2.7	2
10	Chemical Composition of Aerosols of Different Origin **2016**, 183-221		2
9	Characterization of atmospheric particulate matter over the eastern Mediterranean sea. *Journal of Aerosol Science*, **1989**, 20, 1241-1244	4.3	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	10 The ABC-Pyramid: a scientific laboratory at 5079 m a.s.l. for the study of atmospheric composition change and climate. *Developments in Earth Surface Processes*, **2007**, 10, 67-75	2.8	1
6	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign		1
5	Identification of humic-like substances (HULIS) in oxygenated organic aerosols using NMR and AMS factor analyses and liquid chromatographic techniques		1
4	Tropical and Boreal Forest Atmosphere Interactions: A Review. *Tellus, Series B: Chemical and Physical Meteorology*, **2022**, 74, 24-163	3.3	1
3	Aerosol Nucleation in the Terrestrial Atmosphere **2016**, 87-114		
2	9 Merging regional and global chemistry, air quality and global change: SHARE-Asia in the context of the IGAC project. *Developments in Earth Surface Processes*, **2007**, 10, 59-65	2.8	
1	Overview of the biogenic sources of atmospheric trace compounds due to agricultural activities. *Aerobiologia*, **1996**, 12, 129-132	2.4	