Stefania Gilardoni

List of Publications by Year in Descending Order

80 papers	2,718 citations	28 h-index	51 g-index
90 ext. papers	3,160 ext. citations	5.8 avg, IF	4.39 L-index

#	Paper	IF	Citations
80	Pan-Arctic seasonal cycles and long-term trends of aerosol properties from 10 observatories. *Atmospheric Chemistry and Physics*, **2022**, 22, 3067-3096	6.8	4
79	Black carbon, organic carbon, and mineral dust in South American tropical glaciers: A review. *Global and Planetary Change*, **2022**, 213, 103837	4.2	1
78	Light-Absorbing Particles in Snow and Ice: A Brief Journey Across Latitudes. *Springer Series in Light Scattering*, **2021**, 1-29	1.3	1
77	Influence of biomass burning vapor wall loss correction on modeling organic aerosols in Europe by CAMx v6.50. *Geoscientific Model Development*, **2021**, 14, 1681-1697	6.3	2
76	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
75	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. *Atmospheric Chemistry and Physics*, **2021**, 21, 11317-11335	6.8	1
74	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
73	Reconstructing Elemental Carbon Long-Term Trend in the Po Valley (Italy) from Fog Water Samples. *Atmosphere*, **2020**, 11, 580	2.7	2
72	Air Quality Characterization at Three Industrial Areas in Southern Italy. *Frontiers in Environmental Science*, **2020**, 7,	4.8	2
71	Spatial and Temporal Variability of Carbonaceous Aerosol Absorption in the Po Valley. *Aerosol and Air Quality Research*, **2020**, 20, 2624-2639	4.6	3
70	Evaluation of receptor and chemical transport models for PM10 source apportionment. *Atmospheric Environment: X*, **2020**, 5, 100053	2.8	23
69	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
68	Influence of semi- and intermediate-volatile organic compounds (S/IVOC) parameterizations, volatility distributions and aging schemes on organic aerosol modelling in winter conditions. *Atmospheric Environment*, **2019**, 213, 11-24	5.3	9
67	Impact of Air Pollution Controls on Radiation Fog Frequency in the Central Valley of California. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 5889	4.4	7
66	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. *Scientific Reports*, **2019**, 9, 11824	4.9	29
65	19512017 changes in the frequency of days with visibility higher than 10 km and 20 km in Italy. *Atmospheric Environment*, **2019**, 214, 116861	5.3	6
64	Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. *Atmospheric Chemistry and Physics*, **2019**, 19, 15247-15270	6.8	16

63	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. *Atmospheric Research*, **2019**, 219, 57-64	5.4	5
62	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
61	Impact on short-lived climate forcers increases projected warming due to deforestation. *Nature Communications*, **2018**, 9, 157	17.4	54
60	On the functional form of particle number size distributions: influence of particle source and meteorological variables. *Atmospheric Chemistry and Physics*, **2018**, 18, 4831-4842	6.8	4
59	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
58	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
57	Investigating the role of chemical and physical processes on organic aerosol modelling with CAMx in the Po Valley during a winter episode. *Atmospheric Environment*, **2017**, 171, 126-142	5.3	13
56	Characteristics of brown carbon in the urban Po Valley atmosphere. *Atmospheric Chemistry and Physics*, **2017**, 17, 313-326	6.8	34
55	Enhanced toxicity of aerosol in fog conditions in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2017**, 17, 7721-7731	6.8	30
54	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
53	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
52	First Results of the Carbonaceous Aerosol in Rome and Environs (CARE) Experiment: Beyond Current Standards for PM10. *Atmosphere*, **2017**, 8, 249	2.7	42
51	Advances in Organic Aerosol Characterization: From Complex to Simple. *Aerosol and Air Quality Research*, **2017**, 17, 1447-1451	4.6	4
50	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
49	Chemical Composition of Aerosols of Different Origin **2016**, 183-221		2
48	Aerosol and Air Quality **2016**, 553-596		1
47	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. *Atmospheric Chemistry and Physics*, **2016**, 16, 8095-8108	6.8	34
46	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

45	Atmospheric aerosols local–regional discrimination for a semi-urban area in India. *Atmospheric Research*, **2016**, 168, 13-23	5.4	13
44	A Comprehensive CTM Assessment Over an Highly Polluted Area. *Springer Proceedings in Complexity*, **2016**, 483-488	0.3	
43	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
42	Particulate matter, air quality and climate: lessons learned and future needs. *Atmospheric Chemistry and Physics*, **2015**, 15, 8217-8299	6.8	462
41	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
40	Preliminary results of the project "Supersito" concerning the atmospheric aerosol composition in Emilia-Romagna region, Italy: PM source apportionment and aerosol size distribution. *WIT Transactions on the Built Environment*, **2015**, 689-698	3	1
39	Spatial and seasonal variability of carbonaceous aerosol across Italy. *Atmospheric Environment*, **2014**, 99, 587-598	5.3	112
38	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
37	Fog scavenging of organic and inorganic aerosol in the Po Valley. *Atmospheric Chemistry and Physics* , **2014**, 14, 6967-6981	6.8	80
36	Fog occurrence and chemical composition in the Po valley over the last twenty years. *Atmospheric Environment*, **2014**, 98, 394-401	5.3	47
35	Online determination of levoglucosan in ambient aerosols with particle-into-liquid sampler – high-performance anion-exchange chromatography – mass spectrometry (PILS–HPAEC–MS). *Atmospheric Measurement Techniques*, **2013**, 6, 2839-2849	4	23
34	Sources for PM air pollution in the Po Plain, Italy: II. Probabilistic uncertainty characterization and sensitivity analysis of secondary and primary sources. *Atmospheric Environment*, **2012**, 50, 203-213	5.3	86
33	South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. *Atmospheric Chemistry and Physics*, **2012**, 12, 1847-1864	6.8	46
32	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
31	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
30	Using measurements for evaluation of black carbon modeling. *Atmospheric Chemistry and Physics*, **2011**, 11, 439-455	6.8	15
29	Better constraints on sources of carbonaceous aerosols using a combined ¹⁴C – macro tracer analysis in a European rural background site. *Atmospheric Chemistry and Physics*, **2011**, 11, 5685-5700	6.8	111
28	Sources of carbonaceous aerosol in the Amazon basin. *Atmospheric Chemistry and Physics*, **2011**, 11, 2747–2764	6.8	39

27	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms. *Atmospheric Chemistry and Physics*, **2009**, 9, 5417-5432	6.8	95
26	Organic composition of single and submicron particles in different regions of western North America and the eastern Pacific during INTEX-B 2006. *Atmospheric Chemistry and Physics*, **2009**, 9, 5433-5446	6.8	21
25	Oxygenated organic functional groups and their sources in single and submicron organic particles in MILAGRO 2006 campaign. *Atmospheric Chemistry and Physics*, **2009**, 9, 6849-6863	6.8	68
24	Single-particle oxidation state and morphology of atmospheric iron aerosols. *Journal of Geophysical Research*, **2008**, 113,		32
23	Regional variation of organic functional groups in aerosol particles on four U.S. east coast platforms during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign. *Journal of Geophysical Research*, **2007**, 112,		85
22	Classification of multiple types of organic carbon composition in atmospheric particles by scanning transmission X-ray microscopy analysis. *Atmospheric Environment*, **2007**, 41, 9435-9451	5.3	69
21	The influence of iron content on the promotion of the zircon structure and the optical properties of pink coral pigments. *Journal of the European Ceramic Society*, **2005**, 25, 911-917	6	37
20	Technological study of ancient ceramics produced in Casteldurante (central Italy) during the Renaissance. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 335-339	2.6	15
19	Polycyclic aromatic hydrocarbons in the atmosphere: monitoring, sources, sinks and fate. I: Monitoring and sources. *Annali Di Chimica*, **2004**, 94, 17-32		41
18	Polycyclic aromatic hydrocarbons in the atmosphere: monitoring, sources, sinks and fate. II: Sinks and fate. *Annali Di Chimica*, **2004**, 94, 257-68		73
17	Yellow Pr-zircon pigments: The role of praseodymium and of the mineralizer. *Journal of the European Ceramic Society*, **2004**, 24, 3603-3611	6	70
16	MSWI fly ash particle analysis by scanning electron microscopy-energy dispersive X-ray spectroscopy. *Environmental Science & Technology*, **2004**, 38, 6669-75	10.3	24
15	A new approach for archaeological ceramics analysis using total reflection X-ray fluorescence spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2003**, 58, 177-184	3.1	40
14	Measurement of the carbonaceous component in the Milan urban particulate matter. *Annali Di Chimica*, **2003**, 93, 389-96		
13	Optimization of an urban particulate matter multi-element analysis method by inductively coupled plasma--atomic emission spectrometry (ICP-AES). *Annali Di Chimica*, **2003**, 93, 539-50		4
12	Technological investigation of luster decorated ancient majolicas. *Materials Research Society Symposia Proceedings*, **2002**, 712, 841		2
11	Iron doped zirconium silicate prepared by a sol-gel procedure. The effect of the reaction conditions on the structure, morphology and optical properties of the powders. *Physical Chemistry Chemical Physics*, **2002**, 4, 5683-5689	3.6	16
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	South African EUCAARI measurements: a site with high atmospheric variability	3
8	Determination of the biogenic secondary organic aerosol fraction in the boreal forest by AMS and NMR measurements	1
7	Better constraints on sources of carbonaceous aerosols using a combined ¹⁴C macro tracer analysis in a European rural background site	9
6	Fog scavenging of organic and inorganic aerosol in the Po Valley	3
5	Particulate matter, air quality and climate: lessons learned and future needs	12
4	Oxygenated organic functional groups and their sources in single and submicron organic particles in MILAGRO 2006 campaign	10
3	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms	5
2	Organic aerosol evolution and transport observed at Mt. Cimone (2165 m a.s.l.), Italy, during the PEGASOS campaign	1
1	Sources of carbonaceous aerosol in the Amazon Basin	1