

# Stefania Gilardoni

## List of Publications by Year in descending order

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66  
papers

3,611  
citations

136950  
32  
h-index

149698  
56  
g-index

90  
all docs

90  
docs citations

90  
times ranked

4655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particulate matter, air quality and climate: lessons learned and future needs. Atmospheric Chemistry and Physics, 2015, 15, 8217-8299.	4.9	641
2	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.	4.9	278
3	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, 10013-10018.	7.1	243
4	Spatial and seasonal variability of carbonaceous aerosol across Italy. Atmospheric Environment, 2014, 99, 587-598.	4.1	137
5	Better constraints on sources of carbonaceous aerosols using a combined $\delta^{14}\text{C}$ macro tracer analysis in a European rural background site. Atmospheric Chemistry and Physics, 2011, 11, 5685-5700.	4.9	124
6	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms. Atmospheric Chemistry and Physics, 2009, 9, 5417-5432.	4.9	109
7	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.	4.1	108
8	Polycyclic Aromatic Hydrocarbons in the Atmosphere: Monitoring, Sources, Sinks and Fate. II: Sinks and Fate. Annali Di Chimica, 2004, 94, 257-268.	0.6	100
9	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, .	3.3	98
10	Fog scavenging of organic and inorganic aerosol in the Po Valley. Atmospheric Chemistry and Physics, 2014, 14, 6967-6981.	4.9	98
11	Impact on short-lived climate forcers increases projected warming due to deforestation. Nature Communications, 2018, 9, 157.	12.8	86
12	Yellow Pr-zircon pigments. Journal of the European Ceramic Society, 2004, 24, 3603-3611.	5.7	81
13	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.	4.9	81
14	Classification of multiple types of organic carbon composition in atmospheric particles by scanning transmission X-ray microscopy analysis. Atmospheric Environment, 2007, 41, 9435-9451.	4.1	78
15	Fog occurrence and chemical composition in the Po valley over the last twenty years. Atmospheric Environment, 2014, 98, 394-401.	4.1	66
16	South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. Atmospheric Chemistry and Physics, 2012, 12, 1847-1864.	4.9	62
17	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.	4.9	61
18	First Results of the –Carbonaceous Aerosol in Rome and Environs (CARE)–Experiment: Beyond Current Standards for PM <sub>10</sub> . Atmosphere, 2017, 8, 249.	2.3	54

#	ARTICLE	IF	CITATIONS
19	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.	4.9	51
20	POLYCYCLIC AROMATIC HYDROCARBONS IN THE ATMOSPHERE: MONITORING, SOURCES, SINKS AND FATE. I: MONITORING AND SOURCES. <i>Annali Di Chimica</i> , 2004, 94, 17-33.	0.6	49
21	Enhanced toxicity of aerosol in fog conditions in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7721-7731.	4.9	48
22	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. <i>Scientific Reports</i> , 2019, 9, 11824.	3.3	47
23	A new approach for archaeological ceramics analysis using total reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 177-184.	2.9	46
24	Sources of carbonaceous aerosol in the Amazon basin. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2747-2764.	4.9	45
25	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.	4.9	45
26	Characteristics of brown carbon in the urban Po Valley atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 313-326.	4.9	42
27	Evaluation of receptor and chemical transport models for PM10 source apportionment. <i>Atmospheric Environment: X</i> , 2020, 5, 100053.	1.4	41
28	Pan-Arctic seasonal cycles and long-term trends of aerosol properties from 10 observatories. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3067-3096.	4.9	40
29	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8095-8108.	4.9	39
30	The influence of iron content on the promotion of the zircon structure and the optical properties of pink coral pigments. <i>Journal of the European Ceramic Society</i> , 2005, 25, 911-917.	5.7	38
31	Single-particle oxidation state and morphology of atmospheric iron aerosols. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
32	Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15247-15270.	4.9	35
33	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.	4.9	34
34	Online determination of levoglucosan in ambient aerosols with particle-into-liquid sampler “high-performance anion-exchange chromatography” mass spectrometry (PILS-HPAEC-MS). <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2839-2849.	3.1	27
35	Indoor air pollution exposure effects on lung and cardiovascular health in the High Himalayas, Nepal: An observational study. <i>European Journal of Internal Medicine</i> , 2019, 61, 81-87.	2.2	26
36	Investigating the role of chemical and physical processes on organic aerosol modelling with CAMx in the Po Valley during a winter episode. <i>Atmospheric Environment</i> , 2017, 171, 126-142.	4.1	25

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37	MSWI Fly Ash Particle Analysis by Scanning Electron Microscopy-Energy Dispersive X-ray Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2004, 38, 6669-6675.	10.0	24
38	Organic composition of single and submicron particles in different regions of western North America and the eastern Pacific during INTEX-B 2006. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5433-5446.	4.9	24
39	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.	4.9	23
40	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.	8.0	21
41	Using measurements for evaluation of black carbon modeling. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 439-455.	4.9	19
42	Influence of semi- and intermediate-volatile organic compounds (S/IVOC) parameterizations, volatility distributions and aging schemes on organic aerosol modelling in winter conditions. <i>Atmospheric Environment</i> , 2019, 213, 11-24.	4.1	19
43	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. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5683-5689.	2.8	18
44	Technological study of ancient ceramics produced in Casteldurante (central Italy) during the Renaissance. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 335-339.	2.3	17
45	Atmospheric aerosols local-regional discrimination for a semi-urban area in India. <i>Atmospheric Research</i> , 2016, 168, 13-23.	4.1	17
46	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.	3.3	15
47	Characterizing source fingerprints and ageing processes in laboratory-generated secondary organic aerosols using proton-nuclear magnetic resonance ( $^1\text{H}$ -NMR) analysis and HPLC HULIS determination. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10405-10421.	4.9	14
48	Spatial and Temporal Variability of Carbonaceous Aerosol Absorption in the Po Valley. <i>Aerosol and Air Quality Research</i> , 2020, 20, 2624-2639.	2.1	12
49	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.	4.1	11
50	Black carbon, organic carbon, and mineral dust in South American tropical glaciers: A review. <i>Global and Planetary Change</i> , 2022, 213, 103837.	3.5	10
51	Marine and urban influences on summertime PM <sub>2.5</sub> aerosol in the Po basin using mobile measurements. <i>Atmospheric Environment</i> , 2015, 120, 447-454.	4.1	9
52	1951-2017 changes in the frequency of days with visibility higher than 10 km and 20 km in Italy. <i>Atmospheric Environment</i> , 2019, 214, 116861.	4.1	9
53	Seasonal Variability of PM <sub>10</sub> Chemical Composition Including 1,3,5-triphenylbenzene, Marker of Plastic Combustion and Toxicity in Wadowice, South Poland. <i>Aerosol and Air Quality Research</i> , 2021, 21, 200223.	2.1	9
54	Historical Changes in Seasonal Aerosol Acidity in the Po Valley (Italy) as Inferred from Fog Water and Aerosol Measurements. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7307-7315.	10.0	9

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55	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. Atmospheric Chemistry and Physics, 2021, 21, 11317-11335.	4.9	7
56	Light-Absorbing Particles in Snow and Ice: A Brief Journey Across Latitudes. Springer Series in Light Scattering, 2021, , 1-29.	0.6	7
57	On the functional form of particle number size distributions: influence of particle source and meteorological variables. Atmospheric Chemistry and Physics, 2018, 18, 4831-4842.	4.9	6
58	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. Atmospheric Research, 2019, 219, 57-64.	4.1	6
59	Air Quality Characterization at Three Industrial Areas in Southern Italy. Frontiers in Environmental Science, 2020, 7, .	3.3	6
60	Advances in Organic Aerosol Characterization: From Complex to Simple. Aerosol and Air Quality Research, 2017, 17, 1447-1451.	2.1	6
61	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.	3.6	5
62	Reconstructing Elemental Carbon Long-Term Trend in the Po Valley (Italy) from Fog Water Samples. Atmosphere, 2020, 11, 580.	2.3	4
63	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.	0.6	4
64	Technological investigation of luster decorated ancient majolicas. Materials Research Society Symposia Proceedings, 2002, 712, 841.	0.1	2
65	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.	0.0	1
66	Measurement of the carbonaceous component in the Milan urban particulate matter. Annali Di Chimica, 2003, 93, 389-96.	0.6	0