

# Stefania Gilardoni

## List of Publications by Year in descending order

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66  
papers

3,611  
citations

136740

32  
h-index

149479

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. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8217-8299.	1.9	641
2	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	1.9	278
3	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, 10013-10018.	3.3	243
4	Spatial and seasonal variability of carbonaceous aerosol across Italy. <i>Atmospheric Environment</i> , 2014, 99, 587-598.	1.9	137
5	Better constraints on sources of carbonaceous aerosols using a combined $\delta^{14}C$ macro tracer analysis in a European rural background site. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5685-5700.	1.9	124
6	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5417-5432.	1.9	109
7	Sources for PM air pollution in the Po Plain, Italy: II. Probabilistic uncertainty characterization and sensitivity analysis of secondary and primary sources. <i>Atmospheric Environment</i> , 2012, 50, 203-213.	1.9	108
8	Polycyclic Aromatic Hydrocarbons in the Atmosphere: Monitoring, Sources, Sinks and Fate. II: Sinks and Fate. <i>Annali Di Chimica</i> , 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. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	98
10	Fog scavenging of organic and inorganic aerosol in the Po Valley. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6967-6981.	1.9	98
11	Impact on short-lived climate forcers increases projected warming due to deforestation. <i>Nature Communications</i> , 2018, 9, 157.	5.8	86
12	Yellow Pr-zircon pigments. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3603-3611.	2.8	81
13	Oxygenated organic functional groups and their sources in single and submicron organic particles in MILAGRO 2006 campaign. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6849-6863.	1.9	81
14	Classification of multiple types of organic carbon composition in atmospheric particles by scanning transmission X-ray microscopy analysis. <i>Atmospheric Environment</i> , 2007, 41, 9435-9451.	1.9	78
15	Fog occurrence and chemical composition in the Po valley over the last twenty years. <i>Atmospheric Environment</i> , 2014, 98, 394-401.	1.9	66
16	South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1847-1864.	1.9	62
17	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.	1.9	61
18	First Results of the “Carbonaceous Aerosol in Rome and Environs (CARE) Experiment: Beyond Current Standards for PM10. <i>Atmosphere</i> , 2017, 8, 249.	1.0	54

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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.	1.9	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.	1.9	48
22	Extensive Soot Compaction by Cloud Processing from Laboratory and Field Observations. <i>Scientific Reports</i> , 2019, 9, 11824.	1.6	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.	1.5	46
24	Sources of carbonaceous aerosol in the Amazon basin. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2747-2764.	1.9	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.	1.9	45
26	Characteristics of brown carbon in the urban Po Valley atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 313-326.	1.9	42
27	Evaluation of receptor and chemical transport models for PM10 source apportionment. <i>Atmospheric Environment: X</i> , 2020, 5, 100053.	0.8	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.	1.9	40
29	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8095-8108.	1.9	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.	2.8	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.	1.9	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.	1.9	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.	1.2	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.	1.0	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.	1.9	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.	4.6	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.	1.9	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.	1.9	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.	3.9	21
41	Using measurements for evaluation of black carbon modeling. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 439-455.	1.9	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.	1.9	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.	1.3	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.	1.1	17
45	Atmospheric aerosols local-regional discrimination for a semi-urban area in India. <i>Atmospheric Research</i> , 2016, 168, 13-23.	1.8	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.	1.2	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.	1.9	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.	0.9	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.	1.9	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.	1.6	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.	1.9	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.	1.9	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.	0.9	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.	4.6	9

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55	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11317-11335.	1.9	7
56	Light-Absorbing Particles in Snow and Ice: A Brief Journey Across Latitudes. <i>Springer Series in Light Scattering</i> , 2021, , 1-29.	1.8	7
57	On the functional form of particle number size distributions: influence of particle source and meteorological variables. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4831-4842.	1.9	6
58	Ground level ice nucleating particles measurements at Capo Granitola, a Mediterranean coastal site. <i>Atmospheric Research</i> , 2019, 219, 57-64.	1.8	6
59	Air Quality Characterization at Three Industrial Areas in Southern Italy. <i>Frontiers in Environmental Science</i> , 2020, 7, .	1.5	6
60	Advances in Organic Aerosol Characterization: From Complex to Simple. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1447-1451.	0.9	6
61	Influence of biomass burning vapor wall loss correction on modeling organic aerosols in Europe by CAMx v6.50. <i>Geoscientific Model Development</i> , 2021, 14, 1681-1697.	1.3	5
62	Reconstructing Elemental Carbon Long-Term Trend in the Po Valley (Italy) from Fog Water Samples. <i>Atmosphere</i> , 2020, 11, 580.	1.0	4
63	Optimization of an urban particulate matter multi-element analysis method by inductively coupled plasma-atomic emission spectrometry (ICP-AES). <i>Annali Di Chimica</i> , 2003, 93, 539-50.	0.6	4
64	Technological investigation of luster decorated ancient majolicas. <i>Materials Research Society Symposia Proceedings</i> , 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. <i>WIT Transactions on the Built Environment</i> , 2015, , 689-698.	0.0	1
66	Measurement of the carbonaceous component in the Milan urban particulate matter. <i>Annali Di Chimica</i> , 2003, 93, 389-96.	0.6	0