

Elena Barbaro

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,517
citations

304602

22
h-index

345118

36
g-index

77
all docs

77
docs citations

77
times ranked

2007
citing authors

#	ARTICLE	IF	CITATIONS
1	Fire in ice: two millennia of boreal forest fire history from the Greenland NEEM ice core. <i>Climate of the Past</i> , 2014, 10, 1905-1924.	1.3	99
2	Influence of in-port ships emissions to gaseous atmospheric pollutants and to particulate matter of different sizes in a Mediterranean harbour in Italy. <i>Atmospheric Environment</i> , 2016, 139, 1-10.	1.9	91
3	SARS-CoV-2 concentrations and virus-laden aerosol size distributions in outdoor air in north and south of Italy. <i>Environment International</i> , 2021, 146, 106255.	4.8	82
4	Amino acids in Arctic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10453-10463.	1.9	72
5	Atmospheric impact of ship traffic in four Adriatic-Ionian port-cities: Comparison and harmonization of different approaches. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 50, 431-445.	3.2	71
6	Free amino acids in atmospheric particulate matter of Venice, Italy. <i>Atmospheric Environment</i> , 2011, 45, 5050-5057.	1.9	67
7	Free amino acids in Antarctic aerosol: potential markers for the evolution and fate of marine aerosol. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5457-5469.	1.9	54
8	Impact of maritime traffic on polycyclic aromatic hydrocarbons, metals and particulate matter in Venice air. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6951-6959.	2.7	49
9	Sugars in Antarctic aerosol. <i>Atmospheric Environment</i> , 2015, 118, 135-144.	1.9	47
10	Fragrances and PAHs in snow and seawater of Ny-Ålesund (Svalbard): Local and long-range contamination. <i>Environmental Pollution</i> , 2018, 242, 1740-1747.	3.7	46
11	Levoglucosan and phenols in Antarctic marine, coastal and plateau aerosols. <i>Science of the Total Environment</i> , 2016, 544, 606-616.	3.9	45
12	d- and l-amino acids in Antarctic lakes: assessment of a very sensitive HPLC-MS method. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5259-5270.	1.9	37
13	Five primary sources of organic aerosols in the urban atmosphere of Belgrade (Serbia). <i>Science of the Total Environment</i> , 2016, 571, 1441-1453.	3.9	36
14	Molecular Markers of Biomass Burning in Arctic Aerosols. <i>Environmental Science & Technology</i> , 2013, 47, 130716103911002.	4.6	35
15	Characterization of the water soluble fraction in ultrafine, fine, and coarse atmospheric aerosol. <i>Science of the Total Environment</i> , 2019, 658, 1423-1439.	3.9	35
16	Fragrances as new contaminants in the Venice lagoon. <i>Science of the Total Environment</i> , 2016, 566-567, 1362-1367.	3.9	33
17	Fragrances in the seawater of Terra Nova Bay, Antarctica. <i>Science of the Total Environment</i> , 2017, 593-594, 375-379.	3.9	32
18	Interannual variability of sugars in Arctic aerosol: Biomass burning and biogenic inputs. <i>Science of the Total Environment</i> , 2020, 706, 136089.	3.9	30

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19	Carbohydrate determination in honey samples by ion chromatography–mass spectrometry (HPAEC-MS). <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5217-5227.	1.9	30
20	Simultaneous quantification of microcystins and nodularin in aerosol samples using high-performance liquid chromatography/negative electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1497-1506.	0.7	28
21	Particle size distribution of inorganic and organic ions in coastal and inland Antarctic aerosol. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2724-2733.	2.7	27
22	Free and combined L- and D-amino acids in Arctic aerosol. <i>Chemosphere</i> , 2019, 220, 412-421.	4.2	23
23	Photo-oxidation products of α -pinene in coarse, fine and ultrafine aerosol: A new high sensitive HPLC-MS/MS method. <i>Atmospheric Environment</i> , 2018, 180, 149-155.	1.9	22
24	Inter-comparison of carbon content in PM10 and PM2.5 measured with two thermo-optical protocols on samples collected in a Mediterranean site. <i>Environmental Science and Pollution Research</i> , 2019, 26, 29334-29350.	2.7	22
25	Investigation on the Sources and Impact of Trace Elements in the Annual Snowpack and the Firn in the Hansbreen (Southwest Spitsbergen). <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	22
26	Quantitative determination by screening ELISA and HPLC-MS/MS of microcystins LR, LY, LA, YR, RR, LF, LW, and nodularin in the water of Occhito lake and crops. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7699-7708.	1.9	21
27	An integrated study of the chemical composition of Antarctic aerosol to investigate natural and anthropogenic sources. <i>Environmental Chemistry</i> , 2016, 13, 867.	0.7	21
28	Free amino acids in the Arctic snow and ice core samples: Potential markers for paleoclimatic studies. <i>Science of the Total Environment</i> , 2017, 607-608, 454-462.	3.9	21
29	Levels and spatial distributions of levoglucosan and dissolved organic carbon in snowpits over the Tibetan Plateau glaciers. <i>Science of the Total Environment</i> , 2018, 612, 1340-1347.	3.9	20
30	High-latitude Southern Hemisphere fire history during the mid- to late Holocene (6000–750 BP). <i>Climate of the Past</i> , 2018, 14, 871-886.	1.3	18
31	Domoic acid at trace levels in lagoon waters: assessment of a method using internal standard quantification. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9113-9123.	1.9	17
32	Aerosol and snow transfer processes: An investigation on the behavior of water-soluble organic compounds and ionic species. <i>Chemosphere</i> , 2017, 183, 132-138.	4.2	17
33	Diurnal cycle of iodine, bromine, and mercury concentrations in Svalbard surface snow. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13325-13339.	1.9	17
34	Chemical characterization and source apportionment of size-segregated aerosol in the port-city of Venice (Italy). <i>Atmospheric Pollution Research</i> , 2021, 12, 261-271.	1.8	16
35	Col Margherita Observatory: A background site in the Eastern Italian Alps for investigating the chemical composition of atmospheric aerosols. <i>Atmospheric Environment</i> , 2020, 221, 117071.	1.9	15
36	An inter-comparison of size segregated carbonaceous aerosol collected by low-volume impactor in the port-cities of Venice (Italy) and Rijeka (Croatia). <i>Atmospheric Pollution Research</i> , 2020, 11, 1705-1714.	1.8	13

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37	Year-round measurements of size-segregated low molecular weight organic acids in Arctic aerosol. <i>Science of the Total Environment</i> , 2021, 763, 142954.	3.9	13
38	Water-soluble trace, rare earth elements and organic compounds in Arctic aerosol. <i>Rendiconti Lincei</i> , 2016, 27, 95-103.	1.0	12
39	Airborne bacteria and particulate chemistry capture Phytoplankton bloom dynamics in an Arctic fjord. <i>Atmospheric Environment</i> , 2021, 256, 118458.	1.9	11
40	Airborne polar pesticides in rural and mountain sites of North-Eastern Italy: An emerging air quality issue. <i>Environmental Pollution</i> , 2022, 308, 119657.	3.7	11
41	A broad mercury resistant strain of <i>Pseudomonas putida</i> secretes pyoverdine under limited iron conditions and high mercury concentrations. <i>BioMetals</i> , 2016, 29, 1097-1106.	1.8	10
42	Evolution of the Svalbard annual snow layer during the melting phase. <i>Rendiconti Lincei</i> , 2016, 27, 147-154.	1.0	10
43	Free phenolic compounds in waters of the Ross Sea. <i>Science of the Total Environment</i> , 2019, 650, 2117-2128.	3.9	10
44	Measurement report: Spatial variations in ionic chemistry and water-stable isotopes in the snowpack on glaciers across Svalbard during the 2015–2016 snow accumulation season. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3163-3180.	1.9	10
45	Determination of black carbon and nanoparticles along glaciers in the Spitsbergen (Svalbard) region exploiting a mobile platform. <i>Atmospheric Environment</i> , 2017, 170, 184-196.	1.9	8
46	Multiphase Hydrogenation of <i>D</i> -Glucosamine Hydrochloride, <i>N</i> -Acetyl- <i>D</i> -Glucosamine, <i>D</i> -Glucose, and <i>D</i> -Maltose over Ru/C with Integrated Catalyst Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2844-2858.	3.2	8
47	Fast and Sensitive Method for Determination of Domoic Acid in Mussel Tissue. <i>Scientific World Journal</i> , The, 2016, 2016, 1-6.	0.8	7
48	Results of an interlaboratory comparison of analytical methods for quantification of anhydrosugars and biosugars in atmospheric aerosol. <i>Chemosphere</i> , 2017, 184, 269-277.	4.2	7
49	Dissolved rare earth elements in the central-western sector of the Ross Sea, Southern Ocean: Geochemical tracing of seawater masses. <i>Chemosphere</i> , 2017, 183, 444-453.	4.2	7
50	Source, timing and dynamics of ionic species mobility in the Svalbard annual snowpack. <i>Science of the Total Environment</i> , 2021, 751, 141640.	3.9	6
51	First discrete iron(II) records from Dome C (Antarctica) and the Holtedahlfonna glacier (Svalbard). <i>Chemosphere</i> , 2021, 267, 129335.	4.2	6
52	Elemental and water-insoluble organic carbon in Svalbard snow: a synthesis of observations during 2007–2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3035-3057.	1.9	6
53	Antarctic ozone hole modifies iodine geochemistry on the Antarctic Plateau. <i>Nature Communications</i> , 2021, 12, 5836.	5.8	6
54	Characterization of atmospheric total gaseous mercury at a remote high-elevation site (Col) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	1.9	6

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55	Factors controlling atmospheric DMS and its oxidation products (MSA and Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (nss50). <i>Chemistry and Physics</i> , 2022, 22, 9245-9263.	1.9	6
56	Acrylamide determination in atmospheric particulate matter by high-performance liquid chromatography/electrospray ionisation tandem mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 1150-1160.	1.8	5
57	Dissolved organic matter in the deep TALDICE ice core: A nano-UPLC-nano-ESI-HRMS method. <i>Science of the Total Environment</i> , 2020, 700, 134432.	3.9	3
58	A Year-Round Measurement of Water-Soluble Trace and Rare Earth Elements in Arctic Aerosol: Possible Inorganic Tracers of Specific Events. <i>Atmosphere</i> , 2021, 12, 694.	1.0	3
59	Five thousand years of fire history in the high North Atlantic region: natural variability and ancient human forcing. <i>Climate of the Past</i> , 2021, 17, 1533-1545.	1.3	3
60	Variability in black carbon mass concentration in surface snow at Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12479-12493.	1.9	3
61	Fast Liquid Chromatography Coupled with Tandem Mass Spectrometry for the Analysis of Vanillic and Syringic Acids in Ice Cores. <i>Analytical Chemistry</i> , 2022, 94, 5344-5351.	3.2	3
62	Carbonaceous Aerosol in Polar Areas: First Results and Improvements of the Sampling Strategies. <i>Atmosphere</i> , 2021, 12, 320.	1.0	2
63	Detection of glyphosate residues in feed, saliva, urine and faeces from a cattle farm: a pilot study. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2022, 39, 1248-1254.	1.1	2
64	Spatial distribution and potential sources of methanesulfonic acid in High Asia glaciers. <i>Atmospheric Research</i> , 2021, 248, 105227.	1.8	1
65	Measurements of SARS-CoV-2 RNA Concentrations in Indoor and Outdoor Air in Italy: Implications for the Role of Airborne Transmission. <i>Environmental Sciences Proceedings</i> , 2021, 8, 29.	0.3	0