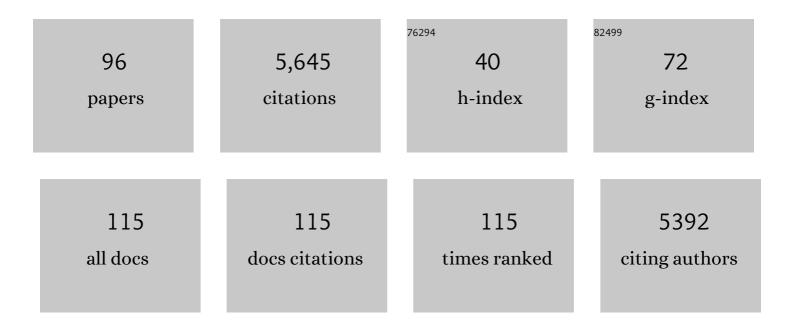
Roberta Vecchi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol: Phenomenology. Atmosphere, 2022, 13, 704.	1.0	7
2	Impact of particle size, refractive index, and shape on the determination of the particle scattering coefficient – an optical closure study evaluating different nephelometer angular truncation and illumination corrections. Atmospheric Measurement Techniques, 2022, 15, 3161-3187.	1.2	5
3	Applicability of benchtop multi-wavelength polar photometers to off-line measurements of the Multi-Angle Absorption Photometer (MAAP) samples. Journal of Aerosol Science, 2021, 152, 105701.	1.8	5
4	Effectiveness of airborne radon progeny assessment for atmospheric studies. Atmospheric Research, 2021, 250, 105390.	1.8	7
5	Determination of Aethalometer multiple-scattering enhancement parameters and impact on source apportionment during the winter 2017/18 EMEP/ACTRIS/COLOSSAL campaign in Milan. Atmospheric Measurement Techniques, 2021, 14, 2919-2940.	1.2	20
6	Advances on the immunotoxicity of outdoor particulate matter: A focus on physical and chemical properties and respiratory defence mechanisms. Science of the Total Environment, 2021, 780, 146391.	3.9	17
7	Consistent determination of the heating rate of light-absorbing aerosol using wavelength- and time-dependent Aethalometer multiple-scattering correction. Science of the Total Environment, 2021, 791, 148277.	3.9	9
8	Determination of the multiple-scattering correction factor and its cross-sensitivity to scattering and wavelength dependence for different AE33 Aethalometer filter tapes: a multi-instrumental approach. Atmospheric Measurement Techniques, 2021, 14, 6335-6355.	1.2	31
9	A multi-year source apportionment of PM2.5 at multiple sites in the southern Po Valley (Italy). Atmospheric Pollution Research, 2021, 12, 101192.	1.8	15
10	Evaluation of receptor and chemical transport models for PM10 source apportionment. Atmospheric Environment: X, 2020, 5, 100053.	0.8	41
11	Classifying aerosol particles through the combination of optical and physical-chemical properties: Results from a wintertime campaign in Rome (Italy). Atmospheric Research, 2020, 235, 104799.	1.8	33
12	Intensive optical parameters of pollution sources identified by the positive matrix factorization technique. Atmospheric Research, 2020, 244, 105029.	1.8	10
13	Gaining knowledge on source contribution to aerosol optical absorption properties and organics by receptor modelling. Atmospheric Environment, 2020, 243, 117873.	1.9	9
14	Ultrafine Particles from Residential Biomass Combustion: A Review on Experimental Data and Toxicological Response. International Journal of Molecular Sciences, 2019, 20, 4992.	1.8	27
15	Exploiting multi-wavelength aerosol absorption coefficients in a multi-time resolution source apportionment study to retrieve source-dependent absorption parameters. Atmospheric Chemistry and Physics, 2019, 19, 11235-11252.	1.9	27
16	Weekly cycle assessment of PM mass concentrations and sources, and impacts on temperature and wind speed in Southern Italy. Atmospheric Research, 2019, 218, 129-144.	1.8	18
17	Radon-based estimates of equivalent mixing layer heights: A long-term assessment. Atmospheric Environment, 2019, 197, 150-158.	1.9	26
18	Composition and origin of PM2.5 in Mediterranean Countryside. Environmental Pollution, 2019, 246, 294-302.	3.7	9

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19	Tailored coefficients in the algorithm to assess reconstructed light extinction at urban sites: A comparison with the IMPROVE revised approach. Atmospheric Environment, 2018, 172, 168-176.	1.9	10
20	Assessment of light extinction at a European polluted urban area during wintertime: Impact of PM1 composition and sources. Environmental Pollution, 2018, 233, 679-689.	3.7	36
21	Carbonaceous Aerosols in the Atmosphere. Atmosphere, 2018, 9, 181.	1.0	55
22	Innovative Instrumentation for the Study of Atmospheric Aerosol Optical Properties. , 2018, , 47-56.		0
23	Source apportionment of fine and coarse particles at a roadside and urban background site in London during the 2012 summer ClearfLo campaign. Environmental Pollution, 2017, 220, 766-778.	3.7	125
24	Set-up of a multi wavelength polar photometer for off-line absorption coefficient measurements on 1-h resolved aerosol samples. Journal of Aerosol Science, 2017, 107, 84-93.	1.8	19
25	The chemical composition of ultrafine particles and associated biological effects at an alpine town impacted by wood burning. Science of the Total Environment, 2017, 587-588, 223-231.	3.9	33
26	Hourly composition of gas and particle phase pollutants at a central urban background site in Milan, Italy. Atmospheric Research, 2017, 186, 83-94.	1.8	30
27	Ultrafine particles (UFPs) from domestic wood stoves: genotoxicity in human lung carcinoma A549 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 820, 39-46.	0.9	24
28	Analysis of the chemical composition of ultrafine particles from two domestic solid biomass fired room heaters under simulated real-world use. Atmospheric Environment, 2017, 150, 87-97.	1.9	45
29	Insights on wood combustion generated proinflammatory ultrafine particles (UFP). Toxicology Letters, 2017, 266, 74-84.	0.4	24
30	Single Particle Extinction and Scattering allows novel optical characterization of aerosols. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	9
31	Size-segregated aerosol in a hot-spot pollution urban area: Chemical composition and three-way source apportionment. Environmental Pollution, 2017, 231, 601-611.	3.7	26
32	Canopy uptake dominates nighttime carbonyl sulfide fluxes in a boreal forest. Atmospheric Chemistry and Physics, 2017, 17, 11453-11465.	1.9	34
33	First Results of the "Carbonaceous Aerosol in Rome and Environs (CARE)―Experiment: Beyond Current Standards for PM10. Atmosphere, 2017, 8, 249.	1.0	54
34	UFP and BC at a mid-sized city in Po valley, Italy: Size-resolved partitioning between primary and newly formed particles. Atmospheric Environment, 2016, 142, 120-131.	1.9	5
35	Implementing constrained multi-time approach with bootstrap analysis in ME-2: An application to PM2.5 data from Florence (Italy). Science of the Total Environment, 2016, 541, 502-511.	3.9	21
36	A new methodology to assess the performance and uncertainty of source apportionment models II: The results of two European intercomparison exercises. Atmospheric Environment, 2015, 123, 240-250.	1.9	63

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37	ECOC comparison exercise with identical thermal protocols after temperature offset correction – instrument diagnostics by in-depth evaluation of operational parameters. Atmospheric Measurement Techniques, 2015, 8, 779-792.	1.2	87
38	Multi-wavelength optical determination of black and brown carbon in atmospheric aerosols. Atmospheric Environment, 2015, 108, 1-12.	1.9	96
39	Improvements in PIXE analysis of hourly particulate matter samples. Nuclear Instruments & Methods in Physics Research B, 2015, 363, 99-104.	0.6	41
40	Surface chemical characterization of PM10 samples by XPS. Applied Surface Science, 2014, 307, 120-128.	3.1	46
41	A filter-based light-absorption measurement with polar photometer: Effects of sampling artefacts from organic carbon. Journal of Aerosol Science, 2014, 70, 15-25.	1.8	39
42	Spatial and seasonal variability of carbonaceous aerosol across Italy. Atmospheric Environment, 2014, 99, 587-598.	1.9	137
43	Receptor modelling of airborne particulate matter in the vicinity of a major steelworks site. Science of the Total Environment, 2014, 490, 488-500.	3.9	72
44	Optimisation of analytical procedures for the quantification of ionic and carbonaceous fractions in the atmospheric aerosol and applications to ambient samples. Analytical and Bioanalytical Chemistry, 2013, 405, 1123-1132.	1.9	54
45	Radiocarbon analysis on organic and elemental carbon in aerosol samples and source apportionment at an urban site in Northern Italy. Journal of Aerosol Science, 2013, 56, 88-99.	1.8	67
46	A multi-wavelength optical set-up for the characterization of carbonaceous particulate matter. Journal of Aerosol Science, 2013, 60, 34-46.	1.8	39
47	The impact of long-range-transport on PM1 and PM2.5 at a Central Mediterranean site. Atmospheric Environment, 2013, 71, 176-186.	1.9	101
48	Intercomparison of ¹⁴ C Analysis of Carbonaceous Aerosols: Exercise 2009. Radiocarbon, 2013, 55, 1496-1509.	0.8	23
49	Soot reference materials for instrument calibration and intercomparisons: a workshop summary with recommendations. Atmospheric Measurement Techniques, 2012, 5, 1869-1887.	1.2	197
50	Saharan dust impact in central Italy: An overview on three years elemental data records. Atmospheric Environment, 2012, 60, 444-452.	1.9	76
51	Applications of radiocarbon measurements in environmental studies at INFN-LABEC, Florence. EPJ Web of Conferences, 2012, 24, 07002.	0.1	2
52	Technical Note: On the effect of water-soluble compounds removal on EC quantification by TOT analysis in urban aerosol samples. Atmospheric Chemistry and Physics, 2011, 11, 10193-10203.	1.9	67
53	PM10 source apportionment in Milan (Italy) using time-resolved data. Science of the Total Environment, 2011, 409, 4788-4795.	3.9	103
54	Carbonate measurements in PM10 near the marble quarries of Carrara (Italy) by infrared spectroscopy (FT-IR) and source apportionment by positive matrix factorization (PMF). Atmospheric Environment, 2011, 45, 6481-6487.	1.9	25

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55	Estimates of wood burning contribution to PM by the macro-tracer method using tailored emission factors. Atmospheric Environment, 2011, 45, 6642-6649.	1.9	83
56	EDâ€XRF setâ€up for sizeâ€segregated aerosol samples analysis. X-Ray Spectrometry, 2011, 40, 79-87.	0.9	17
57	The new sample preparation line for radiocarbon measurements on atmospheric aerosol at LABEC. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 203-208.	0.6	19
58	An integrated approach to assess air pollution threats to cultural heritage in a semi-confined environment: The case study of Michelozzo's Courtyard in Florence (Italy). Science of the Total Environment, 2010, 408, 1403-1413.	3.9	65
59	An alternative way to determine the size distribution of airborne particulate matter. Atmospheric Environment, 2010, 44, 3304-3313.	1.9	22
60	A simplified method for levoglucosan quantification in wintertime atmospheric particulate matter by high performance anion-exchange chromatography coupled with pulsed amperometric detection. International Journal of Environmental Analytical Chemistry, 2010, 90, 934-947.	1.8	56
61	Applied Nuclear Physics For Atmospheric Aerosol Studies. , 2009, , .		Ο
62	Organic and inorganic sampling artefacts assessment. Atmospheric Environment, 2009, 43, 1713-1720.	1.9	88
63	4-hours resolution data to study PM10 in a "hot spot―area in Europe. Environmental Monitoring and Assessment, 2009, 154, 283-300.	1.3	44
64	Chemical–physical and Microbiological Measurements for Indoor Air Quality Assessment at the Ca' Granda Historical Archive, Milan (Italy). Water, Air, and Soil Pollution, 2009, 201, 109-120.	1.1	47
65	PIXE and XRF analysis of particulate matter samples: an inter-laboratory comparison. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2401-2404.	0.6	38
66	The impact of fireworks on airborne particles. Atmospheric Environment, 2008, 42, 1121-1132.	1.9	196
67	A mass closure and PMF source apportionment study on the sub-micron sized aerosol fraction at urban sites in Italy. Atmospheric Environment, 2008, 42, 2240-2253.	1.9	95
68	Characterization of particulate matter sources in an urban environment. Science of the Total Environment, 2008, 401, 81-89.	3.9	231
69	Source apportionment of particulate matter in Europe: A review of methods and results. Journal of Aerosol Science, 2008, 39, 827-849.	1.8	812
70	A study on nighttime–daytime PM10 concentration and elemental composition in relation to atmospheric dispersion in the urban area of Milan (Italy). Atmospheric Environment, 2007, 41, 2136-2144.	1.9	101
71	A new methodological approach: The combined use of two-stage streaker samplers and optical particle counters for the characterization of airborne particulate matter. Atmospheric Environment, 2007, 41, 5525-5535.	1.9	27
72	Characterization of atmospheric aerosols at Monte Cimone, Italy, during summer 2004: Source apportionment and transport mechanisms. Journal of Geophysical Research, 2006, 111, .	3.3	106

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73	Elemental characterization of PM10, PM2.5 and PM1 in the town of Genoa (Italy). Chemosphere, 2006, 62, 226-232.	4.2	93
74	A TGA/FT-IR study for measuring OC and EC in aerosol samples. Atmospheric Chemistry and Physics, 2006, 6, 255-266.	1.9	43
75	Elemental composition and source apportionment of particulate matter near a steel plant in Genoa (Italy). Nuclear Instruments & Methods in Physics Research B, 2006, 249, 548-551.	0.6	30
76	PIXE analysis of PM10–2.5 and PM2.5 with hourly resolution from Michelozzo's Courtyard in Palazzo Vecchio (Florence, Italy). Nuclear Instruments & Methods in Physics Research B, 2006, 249, 552-555.	0.6	13
77	Seasonal variation of 210Pb activity concentration in outdoor air of Milan (Italy). Journal of Environmental Radioactivity, 2005, 82, 251-266.	0.9	42
78	Characterization of airborne particulate matter in an industrial district near Florence by PIXE and PESA. X-Ray Spectrometry, 2005, 34, 323-329.	0.9	49
79	SECONDARY AEROSOL COMPONENTS CONTRIBUTION IN PM10, PM2.5 AND PM1: RESULTS OF A WINTERTIME MONITORING CAMPAIGN IN MILAN (ITALY). Journal of Aerosol Science, 2004, 35, S1057-S1058.	1.8	1
80	Atmospheric aerosol characterisation by Ion Beam Analysis techniques: recent improvements at the Van de Graaff laboratory in Florence. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 166-170.	0.6	12
81	PIXE and ToF-SIMS analysis of streaker samplers filters. Nuclear Instruments & Methods in Physics Research B, 2004, 222, 261-269.	0.6	12
82	The role of atmospheric dispersion in the seasonal variation of PM1 and PM2.5 concentration and composition in the urban area of Milan (Italy). Atmospheric Environment, 2004, 38, 4437-4446.	1.9	187
83	Composition, components and sources of fine aerosol fractions using multielemental EDXRF analysis. X-Ray Spectrometry, 2004, 33, 267-272.	0.9	25
84	Source apportionment of PM10 and PM2.5 in Milan (Italy) using receptor modelling. Science of the Total Environment, 2003, 317, 137-147.	3.9	136
85	Temporal variation of 212Pb concentration in outdoor air of Milan and a comparison with 214Bi. Journal of Environmental Radioactivity, 2003, 65, 77-90.	0.9	24
86	Hourly elemental composition and sources identification of fine and coarse PM10 particulate matter in four Italian towns. Journal of Aerosol Science, 2003, 34, 243-259.	1.8	89
87	Factors influencing mass concentration and chemical composition of fine aerosols during a PM high pollution episode. Science of the Total Environment, 2002, 298, 65-79.	3.9	47
88	Aerosol characterisation in Italian towns by IBA techniques. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 471-476.	0.6	13
89	Characterisation of PM10 and PM2.5 particulate matter in the ambient air of Milan (Italy). Atmospheric Environment, 2001, 35, 4639-4650.	1.9	453
90	ANALYSIS OF A WINTERTIME HIGH-POLLUTION EPISODE IN MILAN (ITALY). Journal of Aerosol Science, 2001, 32, 775-776.	1.8	0

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91	Ozone assessment in the southern part of the Alps. Atmospheric Environment, 1998, 33, 97-109.	1.9	65
92	7Be in surface air: A natural atmospheric tracer. Journal of Aerosol Science, 1997, 28, 895-900.	1.8	25
93	Natural radioactivity and radon exhalation in stony materials. Journal of Environmental Radioactivity, 1997, 34, 149-159.	0.9	20
94	Energy-dispersive X-ray fluorescence analysis applied to biomonitoring on alps. Biological Trace Element Research, 1994, 43-45, 223-228.	1.9	5
95	Ozone measurements in atmosphere and correlations with7Be in an Italian alpine valley. Il Nuovo Cimento Della Società Italiana Di Fisica C, 1994, 17, 565-577.	0.2	1
96	Ozone measurements and correlations with Be-7 in an Alpine Italian Valley. Journal of Aerosol Science, 1992, 23, 961-964.	1.8	1