Cinzia Perrino

List of Publications by Year
in descending order

103 papers	4,814 citations	101543 36 h-index	110387 64 g-index
112 all docs	112 docs citations	112 times ranked	4628 citing authors

#	Article	IF	Citations
1	A European aerosol phenomenology â€“ 3: Physical and chemical characteristics of particulate matter from 60 rural, urban, and kerbside sites across Europe. Atmospheric Environment, 2010, 44, 1308-1320.	4.1	654
2	UV-visible absorption cross sections of nitrous acid. Journal of Geophysical Research, 2000, 105, 14585-14592.	3.3	178
3	Chemical characterization of atmospheric PM in Delhi, India, during different periods of the year including Diwali festival. Atmospheric Pollution Research, 2011, 2, 418-427.	3.8	166
4	Gaseous ammonia in the urban area of Rome, Italy and its relationship with traffic emissions. Atmospheric Environment, 2002, 36, 5385-5394.	4.1	159
5	Annular denuder method for sampling reactive gases and aerosols in the atmosphere. Science of the Total Environment, 1987, 67, 1-16.	8.0	141
6	Spatial and seasonal variability of carbonaceous aerosol across Italy. Atmospheric Environment, 2014, 99, 587-598.	4.1	137
7	Nitrous acid in the urban area of Rome. Atmospheric Environment, 2006, 40, 3123-3133.	4.1	121
8	An atmospheric stability index based on radon progeny measurements for the evaluation of primary urban pollution. Atmospheric Environment, 2001, 35, 5235-5244.	4.1	110
9	The nitric acid shootout: Field comparison of measurement methods. Atmospheric Environment, 1988, 22, 1519-1539.	1.0	106
10	Seasonal variations in the chemical composition of particulate matter: a case study in the Po Valley. Part I: macro-components and mass closure. Environmental Science and Pollution Research, 2014, 21, 3999-4009.	5.3	105
11	Criteria for the choice of a denuder sampling technique devoted to the measurement of atmospheric nirous and nitric acids. Atmospheric Environment Part A General Topics, 1990, 24, 617-626.	1.3	103
12	Measurement of nitrous acid in milan, italy, by doas and diffusion denuders. Atmospheric Environment, 1996, 30, 3599-3609.	4.1	102
13	Characterisation of the traffic sources of PM through size-segregated sampling, sequential leaching and ICP analysis. Atmospheric Environment, 2008, 42, 8161-8175.	4.1	99
14	Size-resolved aerosol chemical composition over the Italian Peninsula during typical summer and winter conditions. Atmospheric Environment, 2010, 44, 5269-5278.	4.1	99
15	Evaluation of a High-Purity and High-Stability Continuous Generation System for Nitrous Acid. Environmental Science & Technology, 1995, 29, 2390-2395.	10.0	97
16	Prediction and experimental evidence for high air concentration of nitrous acid in indoor environments. Atmospheric Environment Part A General Topics, 1991, 25, 1055-1061.	1.3	85
17	Influence of natural events on the concentration and composition of atmospheric particulate matter. Atmospheric Environment, 2009, 43, 4766-4779.	4.1	80
18	A gas/aerosol air pollutants study over the urban area of Rome using a comprehensive chemical transport model. Atmospheric Environment, 2007, 41, 7286-7303.	4.1	76

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19	A denuder technique for the measurement of nitrous acid in urban atmospheres. Atmospheric Environment Part A General Topics, 1993, 27, 1721-1728.	1.3	74
20	Influence of atmospheric stability on the mass concentration and chemical composition of atmospheric particles: A case study in Rome, Italy. Environment International, 2008, 34, 621-628.	10.0	73
21	Relationship between domestic smoking and metals and rare earth elements concentration in indoor PM2.5. Environmental Research, 2018, 165, 71-80.	7.5	65
22	Enhancement of source traceability of atmospheric PM by elemental chemical fractionation. Atmospheric Environment, 2009, 43, 4754-4765.	4.1	64
23	Seasonal variations in the chemical composition of particulate matter: a case study in the Po Valley. Part II: concentration and solubility of micro- and trace-elements. Environmental Science and Pollution Research, 2014, 21, 4010-4022.	5.3	64
24	Determination of soluble ions and elements in ambient air suspended particulate matter: Inter-technique comparison of XRF, IC and ICP for sample-by-sample quality control. Talanta, 2009, 77, 1821-1829.	5.5	61
25	Fungal contribution to size-segregated aerosol measured through biomarkers. Atmospheric Environment, 2013, 64, 132-140.	4.1	61
26	Optimization of the coating layer for the measurement of ammonia by diffusion denuders. Atmospheric Environment, 1999, 33, 4579-4587.	4.1	58
27	Lessons learnt from the first EMEP intensive measurement periods. Atmospheric Chemistry and Physics, 2012, 12, 8073-8094.	4.9	58
28	First Results of the â€œCarbonaceous Aerosol in Rome and Environs (CARE)â€•Experiment: Beyond Current Standards for PM10. Atmosphere, 2017, 8, 249.	2.3	54
29	Oxidative potential of size-segregated PM in an urban and an industrial area of Italy. Atmospheric Environment, 2018, 187, 292-300.	4.1	53
30	Thermal stability of inorganic and organic compounds in atmospheric particulate matter. Atmospheric Environment, 2012, 54, 36-43.	4.1	46
31	Source characterization of fine and coarse particles at the East Mediterranean coast. Atmospheric Environment, 2008, 42, 6114-6130.	4.1	45
32	Uptake of nitrous acid and nitrogen oxides by nylon surfaces: Implications for nitric acid measurement. Atmospheric Environment, 1988, 22, 1925-1930.	1.0	42
33	How much is particulate matter near the ground influenced by upper-level processes within and above the PBL? A summertime case study in Milan (Italy) evidences the distinctive role of nitrate. Atmospheric Chemistry and Physics, 2015, 15, 2629-2649.	4.9	42
34	Comparing the Performance of Teflon and Quartz Membrane Filters Collecting Atmospheric PM: Influence of Atmospheric Water. Aerosol and Air Quality Research, 2013, 13, 137-147.	2.1	42
35	Chemical characterization of indoor and outdoor fine particulate matter in an occupied apartment in Rome, Italy. Indoor Air, 2016, 26, 558-570.	4.3	40
36	Inorganic constituents of urban air pollution in the Lazio region (Central Italy). Environmental Monitoring and Assessment, 2007, 128, 133-151.	2.7	38

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37	Particulate matter concentration and chemical composition in the metro system of Rome, Italy. Environmental Science and Pollution Research, 2015, 22, 9204-9214.	5.3	37
38	Evaluation of laboratory and field performance of denuder tubes: A theoretical approach. Atmospheric Environment, 1989, 23, 1517-1530.	1.0	36
39	A new method for assessing the contribution of Primary Biological Atmospheric Particles to the mass concentration of the atmospheric aerosol. Environment International, 2016, 87, 108-115.	10.0	36
40	Measurement of high concentration of nitrous acid inside automobiles. Atmospheric Environment, 1995, 29, 345-351.	4.1	35
41	Desert dust contribution to PM10 loads in Italy: Methods and recommendations addressing the relevant European Commission Guidelines in support to the Air Quality Directive 2008/50. Atmospheric Environment, 2017, 161, 288-305.	4.1	35
42	Time-resolved measurements of water-soluble ions and elements in atmospheric particulate matter for the characterization of local and long-range transport events. Chemosphere, 2010, 80, 1291-1300.	8.2	34
43	An inclusive view of Saharan dust advections to Italy and the Central Mediterranean. Atmospheric Environment, 2019, 201, 242-256.	4.1	34
44	Indoor air quality in schools of a highly polluted south Mediterranean area. Indoor Air, 2019, 29, 276-290.	4.3	33
45	Particulate matter and gaseous pollutants in the Mediterranean Basin: Results from the MED-PARTICLES project. Science of the Total Environment, 2014, 488-489, 297-315.	8.0	32
46	Monitoring acidic air pollutants near Rome by means of diffusion lines: development of a specific quality control procedure. Atmospheric Environment, 2001, 35, 331-341.	4.1	30
47	Characterisation of the local topsoil contribution to airborne particulate matter in the area of Rome (Italy). Source profiles. Atmospheric Environment, 2013, 69, 1-14.	4.1	29
48	Biomass burning contribution to PM10 concentration in Rome (Italy): Seasonal, daily and two-hourly variations. Chemosphere, 2019, 222, 839-848.	8.2	29
49	Sources of PM in an Industrial Area: Comparison between Receptor Model Results and Semiempirical Calculations of Source Contributions. Aerosol and Air Quality Research, 2014, 14, 1558-1572.	2.1	29
50	Chemical Composition of Indoor and Outdoor PM2.5 in Three Schools in the City of Rome. Atmosphere, 2015, 6, 1422-1443.	2.3	28
51	Inorganic constituents of urban air pollution in the Lazio region (Central Italy). Environmental Monitoring and Assessment, 2007, 136, 69-86.	2.7	26
52	Relevance of Sb(III), Sb(V), and Sb-containing nano-particles in urban atmospheric particulate matter. Analytical and Bioanalytical Chemistry, 2010, 397, 2533-2542.	3.7	26
53	A combined chemical/size fractionation approach to study winter/summer variations, ageing and source strength of atmospheric particles. Environmental Pollution, 2019, 253, 19-28.	7.5	26
54	Extraction and analysis of fungal spore biomarkers in atmospheric bioaerosol by HPLCâ€“MSâ€“MS and GCâ€“MS. Talanta, 2013, 105, 142-151.	5.5	25

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55	The EyjafjallajÃ¶kull ash plume â€“ Part I: Physical, chemical and optical characteristics. Atmospheric Environment, 2012, 48, 129-142.	4.1	24
56	Qualitative and quantitative determination of water in airborne particulate matter. Atmospheric Chemistry and Physics, 2013, 13, 1193-1202.	4.9	24
57	Influence of advanced wood-fired appliances for residential heating on indoor air quality. Chemosphere, 2018, 211, 62-71.	8.2	24
58	Two-stage chemical fractionation method for the analysis of elements and non-volatile inorganic ions in PM10 samples: Application to ambient samples collected in Rome (Italy). Atmospheric Environment, 2006, 40, 7908-7923.	4.1	22
59	Integrated Evaluation of Indoor Particulate Exposure: The VIEPI Project. Sustainability, 2020, 12, 9758.	3.2	22
60	Elemental Concentration in Atmospheric Particulate Matter: Estimation of Nanoparticle Contribution. Aerosol and Air Quality Research, 2013, 13, 1619-1629.	2.1	22
61	Measurement of Atmospheric Nitric Acid in Gas Phase and Nitrate in Particulate Matter by means of Annular Denuders. International Journal of Environmental Analytical Chemistry, 1994, 54, 183-201.	3.3	21
62	Pan-European rural monitoring network shows dominance of NH₃ gas and NH₄NO₃ aerosol in inorganic atmospheric pollution load. Atmospheric Chemistry and Physics, 2021, 21, 875-914.	4.9	21
63	Indoor air quality in a domestic environment: Combined contribution of indoor and outdoor PM sources. Building and Environment, 2021, 202, 108050.	6.9	21
64	Assessing the contribution of water to the mass closure of PM10. Atmospheric Environment, 2016, 140, 555-564.	4.1	20
65	The EMEP Intensive Measurement Period campaign, 2008â€“2009: characterizing carbonaceous aerosol at nine rural sites in Europe. Atmospheric Chemistry and Physics, 2019, 19, 4211-4233.	4.9	20
66	High resolution spatial mapping of element concentrations in PM10: A powerful tool for localization of emission sources. Atmospheric Research, 2020, 244, 105060.	4.1	20
67	Improved characterisation of inorganic components in airborne particulate matter. Environmental Chemistry Letters, 2006, 3, 186-191.	16.2	18
68	Sampling and analysis of ambient air near Los Angeles using an annular denuder system. Atmospheric Environment, 1988, 22, 1619-1625.	1.0	17
69	Field intercomparison exercise on nitric acid and nitrate measurement (Rome, 1988): A critical approach to the evaluation of the results. Science of the Total Environment, 1993, 133, 39-71.	8.0	16
70	Characterisation of gaseous and particulate atmospheric pollutants in the East Mediterranean by diffusion denuder sampling lines. Environmental Monitoring and Assessment, 2009, 152, 231-244.	2.7	16
71	Chemical Composition of PM10 in 16 Urban, Industrial and Background Sites in Italy. Atmosphere, 2020, 11, 479.	2.3	16
72	Impact of synoptic meteorological conditions on air quality in three different case studies in Rome, Italy. Atmospheric Pollution Research, 2021, 12, 76-88.	3.8	16

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73	Determination of Sb(III), Sb(V) and identification of Sb-containing nanoparticles in airborne particulate matter. Procedia Environmental Sciences, 2011, 4, 209-217.	1.4	15
74	In-vivo assesment of the genotoxic and oxidative stress effects of particulate matter on Echinogammarus veneris. Chemosphere, 2017, 173, 124-134.	8.2	14
75	Effects of COVID-19 lockdown on PM10 composition and sources in the Rome Area (Italy) by elements' chemical fractionation-based source apportionment. Atmospheric Research, 2022, 266, 105970.	4.1	14
76	Development of a variable-path-length diffusive sampler for ammonia and evaluation of ammonia pollution in the urban area of Rome, Italy. Atmospheric Environment, 2004, 38, 6667-6672.	4.1	13
77	Improved identification of transition metals in airborne aerosols by SEMâ€“EDX combined backscattered and secondary electron microanalysis. Environmental Science and Pollution Research, 2014, 21, 4023-4031.	5.3	13
78	Determination of the main bioaerosol components using chemical markers by liquid chromatographyâ€“tandem mass spectrometry. Microchemical Journal, 2019, 149, 103974.	4.5	13
79	Bioaerosol Contribution to Atmospheric Particulate Matter in Indoor University Environments. Sustainability, 2021, 13, 1149.	3.2	13
80	Seasonal Differences in Atmospheric Nitrous Acid near Mediterranean Urban Areas. Water, Air, and Soil Pollution, 2008, 188, 81-92.	2.4	12
81	In situ physical and chemical characterisation of the EyjafjallajÃ¶kull aerosol plume in the free troposphere over Italy. Atmospheric Chemistry and Physics, 2014, 14, 1075-1092.	4.9	12
82	Evaluating a filtering and recirculating system to reduce dust drift in simulated sowing of dressed seed and abraded dust particle characteristics. Pest Management Science, 2017, 73, 1134-1142.	3.4	12
83	Oxidative Potential Associated with Urban Aerosol Deposited into the Respiratory System and Relevant Elemental and Ionic Fraction Contributions. Atmosphere, 2020, 11, 6.	2.3	12
84	Contribution of Primary Biological Aerosol Particles to airborne particulate matter in indoor and outdoor environments. Chemosphere, 2021, 264, 128510.	8.2	12
85	Negative interference of teflon sampling devices in the determination of nitric acid and particulate nitrate. Science of the Total Environment, 1988, 76, 93-99.	8.0	11
86	A device for pneumatic precision drills reducing the drift of the abrasion dust from dressed seed. Crop Protection, 2015, 74, 56-64.	2.1	11
87	Quantitative Interpretation of Air Radon Progeny Fluctuations in Terms of Stability Conditions in the Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2016, 160, 529-550.	2.3	11
88	Performance Evaluation of a Very-low-volume Sampler for Atmospheric Particulate Matter. Aerosol and Air Quality Research, 2019, 19, 2160-2172.	2.1	10
89	Use of ion chromatography for monitoring atmospheric pollution in background networks. Journal of Chromatography A, 1999, 846, 269-275.	3.7	9
90	Gaining knowledge on source contribution to aerosol optical absorption properties and organics by receptor modelling. Atmospheric Environment, 2020, 243, 117873.	4.1	9

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91	Mass size distribution of particle-bound water. Atmospheric Environment, 2017, 165, 46-56.	4.1	8
92	On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol: Phenomenology. Atmosphere, 2022, 13, 704.	2.3	7
93	Improved Time-Resolved Measurements of Inorganic Ions in Particulate Matter by PILS-IC Integrated with a Sample Pre-Concentration System. Aerosol Science and Technology, 2015, 49, 521-530.	3.1	6
94	Comparison Study between Indoor and Outdoor Chemical Composition of PM2.5 in Two Italian Areas. Atmosphere, 2020, 11, 368.	2.3	6
95	Air Quality Characterization at Three Industrial Areas in Southern Italy. Frontiers in Environmental Science, 2020, 7, .	3.3	6
96	Seasonal Variations in the Chemical Composition of Indoor and Outdoor PM10 in University Classrooms. Sustainability, 2021, 13, 2263.	3.2	5
97	Generation of Standard Atmospheres of Nitrous Acid. , 1990, , 140-144.		4
98	Composition, size distribution, optical properties, and radiative effects of laboratory-resuspended PM₁₀ from geological dust of the Rome area, by electron microscopy and radiative transfer modelling. Atmospheric Chemistry and Physics, 2015, 15, 13177-13194.	4.9	3
99	Association between the Concentration and the Elemental Composition of Outdoor PM2.5 and Respiratory Diseases in Schoolchildren: A Multicenter Study in the Mediterranean Area. Atmosphere, 2020, 11, 1290.	2.3	3
100	Seasonal variations in the concentration and solubility of elements in atmospheric particulate matter: a case study in Northern Italy. E3S Web of Conferences, 2013, 1, 20002.	0.5	2
101	Indoor PM10 in university classrooms: Chemical composition and source behaviour. Atmospheric Environment, 2022, 287, 119260.	4.1	2
102	Evaluation of the nanoparticles contribution to elemental concentration in airborne particulate matter. E3S Web of Conferences, 2013, 1, 07004.	0.5	1
103	Assessment of the link between atmospheric dispersion and chemical composition of PM10 at 2-h time resolution. Chemosphere, 2022, 298, 134272.	8.2	0