

Paola Fermo

List of Publications by Year in descending order

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121
papers

4,237
citations

76196

40
h-index

133063

59
g-index

127
all docs

127
docs citations

127
times ranked

4407
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of fireworks on airborne particles. <i>Atmospheric Environment</i> , 2008, 42, 1121-1132.	1.9	196
2	Solar photoactivity of nano-N-TiO ₂ from tertiary amine: role of defects and paramagnetic species. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 314-322.	10.8	167
3	Luster Pottery from the Thirteenth Century to the Sixteenth Century: A Nanostructured Thin Metallic Film. <i>Journal of the American Ceramic Society</i> , 2001, 84, 442-46.	1.9	144
4	Spatial and seasonal variability of carbonaceous aerosol across Italy. <i>Atmospheric Environment</i> , 2014, 99, 587-598.	1.9	137
5	Characterization and source apportionment of organic aerosol using offline aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 23-39.	1.2	110
6	Characterization of atmospheric aerosols at Monte Cimone, Italy, during summer 2004: Source apportionment and transport mechanisms. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	106
7	PM ₁₀ source apportionment in Milan (Italy) using time-resolved data. <i>Science of the Total Environment</i> , 2011, 409, 4788-4795.	3.9	103
8	Multi-wavelength optical determination of black and brown carbon in atmospheric aerosols. <i>Atmospheric Environment</i> , 2015, 108, 1-12.	1.9	96
9	A mass closure and PMF source apportionment study on the sub-micron sized aerosol fraction at urban sites in Italy. <i>Atmospheric Environment</i> , 2008, 42, 2240-2253.	1.9	95
10	Heterogeneous distribution of metal nanocrystals in glazes of historical pottery. <i>Applied Surface Science</i> , 2002, 185, 206-216.	3.1	92
11	Sources for PM air pollution in the Po Plain, Italy: I. Critical comparison of methods for estimating biomass burning contributions to benzo(a)pyrene. <i>Atmospheric Environment</i> , 2011, 45, 7266-7275.	1.9	89
12	Radiocarbon analysis of elemental and organic carbon in Switzerland during winter-smog episodes from 2008 to 2012 – Part 1: Source apportionment and spatial variability. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13551-13570.	1.9	89
13	Organic and inorganic sampling artefacts assessment. <i>Atmospheric Environment</i> , 2009, 43, 1713-1720.	1.9	88
14	ECOC comparison exercise with identical thermal protocols after temperature offset correction – instrument diagnostics by in-depth evaluation of operational parameters. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 779-792.	1.2	87
15	Smart hybrid coatings for natural stones conservation. <i>Progress in Organic Coatings</i> , 2015, 78, 511-516.	1.9	86
16	Estimates of wood burning contribution to PM by the macro-tracer method using tailored emission factors. <i>Atmospheric Environment</i> , 2011, 45, 6642-6649.	1.9	83
17	Yellow Pr-zircon pigments. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3603-3611.	2.8	81
18	Long-term chemical analysis and organic aerosol source apportionment at nine sites in central Europe: source identification and uncertainty assessment. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13265-13282.	1.9	78

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19	Organic aerosol source apportionment by offline-AMS over a full year in Marseille. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8247-8268.	1.9	75
20	Technical Note: On the effect of water-soluble compounds removal on EC quantification by TOT analysis in urban aerosol samples. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10193-10203.	1.9	67
21	How the masters in Umbria, Italy, generated and used nanoparticles in art fabrication during the Renaissance period. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 515-525.	1.1	65
22	PM10 source apportionment applying PMF and chemical tracer analysis to ship-borne measurements in the Western Mediterranean. <i>Atmospheric Environment</i> , 2016, 125, 140-151.	1.9	57
23	Size-Resolved Identification, Characterization, and Quantification of Primary Biological Organic Aerosol at a European Rural Site. <i>Environmental Science & Technology</i> , 2016, 50, 3425-3434.	4.6	57
24	A simplified method for levoglucosan quantification in wintertime atmospheric particulate matter by high performance anion-exchange chromatography coupled with pulsed amperometric detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2010, 90, 934-947.	1.8	56
25	Improving indoor air quality through an air purifier able to reduce aerosol particulate matter (PM) and volatile organic compounds (VOCs): Experimental results. <i>Environmental Research</i> , 2021, 197, 111131.	3.7	55
26	Optimisation of analytical procedures for the quantification of ionic and carbonaceous fractions in the atmospheric aerosol and applications to ambient samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1123-1132.	1.9	54
27	Markers and influence of open biomass burning on atmospheric particulate size and composition during a major bonfire event. <i>Atmospheric Environment</i> , 2014, 82, 218-225.	1.9	52
28	The Oceanus statue of the Fontana di Trevi (Rome): The analysis of black crust as a tool to investigate the urban air pollution and its impact on the stone degradation. <i>Science of the Total Environment</i> , 2017, 593-594, 297-309.	3.9	52
29	Contribution of wood combustion to PAH and PCDD/F concentrations in two urban sites in Northern Italy. <i>Journal of Aerosol Science</i> , 2013, 56, 30-40.	1.8	51
30	Application of chemical and chemometric analytical techniques to the study of ancient ceramics from Dougga (Tunisia). <i>Microchemical Journal</i> , 2008, 88, 150-159.	2.3	50
31	Size-resolved comprehensive characterization of airborne particulate matter. <i>Atmospheric Environment</i> , 2013, 67, 14-26.	1.9	48
32	First-time observation of Mastro Giorgio masterpieces by means of non-destructive techniques. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 475-483.	1.1	47
33	Chemical and physical and Microbiological Measurements for Indoor Air Quality Assessment at the Ca' Granda Historical Archive, Milan (Italy). <i>Water, Air, and Soil Pollution</i> , 2009, 201, 109-120.	1.1	47
34	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
35	Surface chemical characterization of PM10 samples by XPS. <i>Applied Surface Science</i> , 2014, 307, 120-128.	3.1	46
36	The Angera stone: a challenging conservation issue in the polluted environment of Milan (Italy). <i>Environmental Earth Sciences</i> , 2013, 69, 1085-1094.	1.3	45

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37	Analysis of the chemical composition of ultrafine particles from two domestic solid biomass fired room heaters under simulated real-world use. <i>Atmospheric Environment</i> , 2017, 150, 87-97.	1.9	45
38	4-hours resolution data to study PM10 in a "hot spot" area in Europe. <i>Environmental Monitoring and Assessment</i> , 2009, 154, 283-300.	1.3	44
39	Ground-based measurements of long-range transported aerosol at the rural regional background site of Monte Martano (Central Italy). <i>Atmospheric Research</i> , 2015, 155, 26-36.	1.8	44
40	Hydrophobizing coatings for cultural heritage. A detailed study of resin/stone surface interaction. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 341-348.	1.1	43
41	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
42	Efficiency of an Air Cleaner Device in Reducing Aerosol Particulate Matter (PM) in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 18.	1.2	38
43	Advanced mortar coatings for cultural heritage protection. Durability towards prolonged UV and outdoor exposure. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12608-12617.	2.7	37
44	Structural and Spectroscopic Investigations of Blue, Vanadium-Doped ZrSiO ₄ Pigments Prepared by a Sol-Gel Route. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22112-22119.	1.2	35
45	Ionic profile of honey as a potential indicator of botanical origin and global environmental pollution. <i>Environmental Pollution</i> , 2013, 178, 173-181.	3.7	33
46	The chemical composition of ultrafine particles and associated biological effects at an alpine town impacted by wood burning. <i>Science of the Total Environment</i> , 2017, 587-588, 223-231.	3.9	33
47	A new approach to assess the chemical composition of powder deposits damaging the stone surfaces of historical monuments. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6262-6270.	2.7	32
48	A multi-analytical approach for the study of the pigments used in the wall paintings from a building complex on the Caelian Hill (Rome). <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 1109-1119.	1.1	29
49	Black crusts on Venetian built heritage, investigation on the impact of pollution sources on their composition. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	27
50	Production of gold and ruby-red lustres in Gubbio (Umbria, Italy) during the Renaissance period. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 241-245.	1.1	26
51	Particulate-bound polycyclic aromatic hydrocarbon sources and determinants in residential homes. <i>Environmental Pollution</i> , 2016, 218, 16-25.	3.7	26
52	Carbonate measurements in PM10 near the marble quarries of Carrara (Italy) by infrared spectroscopy (FT-IR) and source apportionment by positive matrix factorization (PMF). <i>Atmospheric Environment</i> , 2011, 45, 6481-6487.	1.9	25
53	Classification of ancient Etruscan ceramics using statistical multivariate analysis of data. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 299-307.	1.1	24
54	MSWI Fly Ash Particle Analysis by Scanning Electron Microscopy-Energy Dispersive X-ray Spectroscopy. <i>Environmental Science & Technology</i> , 2004, 38, 6669-6675.	4.6	24

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55	Ultrafine particles (UFPs) from domestic wood stoves: genotoxicity in human lung carcinoma A549 cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2017, 820, 39-46.	0.9	24
56	Insights on wood combustion generated proinflammatory ultrafine particles (UFP). <i>Toxicology Letters</i> , 2017, 266, 74-84.	0.4	24
57	Italian Renaissance and Hispano-Moresque lustre-decorated majolicas: imitation cases of Hispano-Moresque style in central Italy. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 77, 125-133.	1.1	23
58	A multi-analytical approach for the characterization of black crusts on the facade of an historical cathedral. <i>Microchemical Journal</i> , 2020, 158, 105121.	2.3	20
59	Elemental Analysis and Phenolic Profiles of Selected Italian Wines. <i>Foods</i> , 2021, 10, 158.	1.9	20
60	A 1-year characterization of organic aerosol composition and sources using an extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7875-7893.	1.9	20
61	The use of small angle X-ray scattering (SAXS) for the characterisation of lustre surfaces in Renaissance majolica. <i>Applied Surface Science</i> , 2002, 185, 309-316.	3.1	19
62	Estimation of local and external contributions of biomass burning to PM2.5 in an industrial zone included in a large urban settlement. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2100-2115.	2.7	19
63	The effects of air pollution on cultural heritage: The case study of Santa Maria delle Grazie al Naviglio Grande (Milan). <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	19
64	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
65	Preparation and electrochemical behaviour of $\{[\text{Ru}(\text{bipy})_4\text{Cl}_2\text{Ag}]\text{NO}_3(\text{CHCl}_3)\cdot 6\text{H}_2\text{O}\}_n$ obtained from the self-assembly of trans-Ru(bipy) ₄ Cl ₂ and AgNO ₃ . <i>Electrochimica Acta</i> , 2007, 52, 2603-2611.	2.6	18
66	Magnetic peptide nucleic acids for DNA targeting. <i>Chemical Communications</i> , 2009, , 6017.	2.2	18
67	A new light on a first example of lustred majolica in Italy. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 747-761.	1.1	18
68	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
69	Lusters of renaissance pottery: Experimental and theoretical optical properties using inhomogeneous theories. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 573-579.	1.1	17
70	Archaeometric researches on the provenance of Mediterranean Archaic Phoenician and Punic pottery. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13921-13949.	2.7	17
71	Air pollution impact on carbonate building stones in Italian urban sites. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	17
72	The environmental impact of air pollution on the built heritage of historic Cairo (Egypt). <i>Science of the Total Environment</i> , 2021, 764, 142905.	3.9	17

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73	Characterisation of Roman and Byzantine glasses from the surroundings of Thugga (Tunisia): Raw materials and colours. <i>Microchemical Journal</i> , 2016, 129, 5-15.	2.3	16
74	Analytical Method for Biomonitoring of PAH Using Leaves of Bitter Orange Trees (<i>Citrus aurantium</i>): a Case Study in South Spain. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	16
75	Study and Characterization of Environmental Deposition on Marble and Surrogate Substrates at a Monumental Heritage Site. <i>Geosciences (Switzerland)</i> , 2018, 8, 349.	1.0	16
76	Towards Novel Fluorinated Methacrylic Coatings for Cultural Heritage: A Combined Polymers and Surfaces Chemistry Study. <i>Polymers</i> , 2019, 11, 1190.	2.0	16
77	A multi-analytical approach to study the chemical composition of total suspended particulate matter (TSP) to assess the impact on urban monumental heritage in Florence. <i>Science of the Total Environment</i> , 2020, 740, 140055.	3.9	15
78	The combined use of SEM-EDX, Raman, ATR-FTIR and visible reflectance techniques for the characterisation of Roman wall painting pigments from Monte d'oro area (Rome): an insight into red, yellow and pink shades. <i>Environmental Science and Pollution Research</i> , 2022, 29, 29419-29437.	2.7	15
79	Single-Crystal Vibrational Spectrum of Phenakite, Be_2SiO_4 , and Its Interpretation Using a Transferable Empirical Force Field. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4990-4996.	1.1	14
80	A scientific approach to the attribution problem of renaissance ceramic productions based on chemical and mineralogical markers. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 771-784.	1.1	14
81	The hydrophobicity modulation of glass and marble materials by different Si-based coatings. <i>Progress in Organic Coatings</i> , 2019, 136, 105260.	1.9	14
82	Pigments on Roman Wall Painting and Stucco Fragments from the Monte d'oro Area (Rome): A Multi-Technique Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7121.	1.3	13
83	The impact of atmospheric pollution on outdoor cultural heritage: an analytic methodology for the characterization of the carbonaceous fraction in black crusts present on stone surfaces. <i>Environmental Research</i> , 2021, 201, 111565.	3.7	13
84	Synthesis of spherical nanoparticles of $\text{Cu}_2\text{L}_2\text{O}_5$ (L=Ho, Er) from W/O microemulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 160, 281-290.	2.3	12
85	Advances in Achaemenid brick manufacturing technology: Evidence from the monumental gate at Tol-e Ajori (Fars, Iran). <i>Applied Clay Science</i> , 2018, 152, 131-142.	2.6	12
86	MSWI Fly Ash Native Carbon Thermal Degradation: A TG-FTIR Study. <i>Environmental Science & Technology</i> , 2000, 34, 4370-4375.	4.6	11
87	The Use of Nano-Particles to Produce Iridescent Metallic Effects on Ancient Ceramic Objects. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8764-8769.	0.9	11
88	On the role of hydrophobic Si-based protective coatings in limiting mortar deterioration. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17733-17743.	2.7	11
89	Characterization of black crusts developed on historic stones with diverse mineralogy under different air quality environments. <i>Environmental Science and Pollution Research</i> , 2022, 29, 29438-29454.	2.7	11
90	Application of CMB Model to PM10 Data Collected in a Site of South Italy: Results and Comparison with APCS Model. <i>Current Analytical Chemistry</i> , 2010, 6, 19-25.	0.6	9

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91	Simple and rapid simultaneous profiling of minor components of honey by size exclusion chromatography (SEC) coupled to ultraviolet diode array detection (UV-DAD), combined with chemometric methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 58, 193-199.	1.4	9
92	A methodological approach to define the state of conservation of the stone materials used in the Cairo historical heritage (Egypt). <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	0.7	9
93	Bismuth knowledge during the Renaissance strengthened by its use in Italian lustres production. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 277-281.	1.1	8
94	Luminescence properties of lustre decorated majolica. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 293-297.	1.1	8
95	Setup of Galvanic Sensors for the Monitoring of Gilded Bronzes. <i>Sensors</i> , 2014, 14, 7066-7083.	2.1	8
96	A comparative study of Hispano-Moorish and Italian Renaissance lustred majolicas by using X-ray absorption spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 738-744.	1.6	8
97	Thermal Oxidation Kinetics and Mechanism of Sludge from a Wastewater Treatment Plant. <i>Environmental Science & Technology</i> , 2001, 35, 3981-3987.	4.6	7
98	Significant findings concerning the production of Italian Renaissance lustred majolica. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 825-833.	1.1	7
99	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
100	Insights into organic-aerosol sources via a novel laser-desorption/ionization mass spectrometry technique applied to one year of PM ₁₀ samples from nine sites in central Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2155-2174.	1.9	7
101	Quantification of the Aluminum Content Leached into Foods Baked Using Aluminum Foil. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8357.	1.2	7
102	Enhanced Historical Limestone Protection by New Organic/Inorganic Additive-Modified Resins. <i>Coatings</i> , 2021, 11, 73.	1.2	7
103	Anoxic treatment for the disinfection of wood cultural heritage: assessment of the effects and harmfulness on different species. <i>Wood Science and Technology</i> , 2015, 49, 925-944.	1.4	6
104	Chemical characterization of biomass fuel particulate deposits and ashes in households of Mt. Everest region (NEPAL). <i>Science of the Total Environment</i> , 2016, 573, 751-759.	3.9	6
105	Multitechnique diagnostic analysis and 3D surveying prior to the restoration of St. Michael defeating Evil painting by Mattia Preti. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	2.7	5
106	Air Quality Assessment of a School in an Industrialized Area of Southern Italy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8870.	1.3	5
107	Correlation between surface roughness and spectral features in IR-reflection spectroscopy. <i>Microchemical Journal</i> , 2022, 172, 106874.	2.3	5
108	Integrated scientific investigations on the constitutive materials from Me-taw-ya Temple, Pagãin Valley, Burma (Myanmar). <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 131, 737-750.	2.5	4

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109	Degradation Products on Byzantine Glasses from Northern Tunisia. Applied Sciences (Switzerland), 2020, 10, 7523.	1.3	4
110	Chlorophytum comosum: A Bio-Indicator for Assessing the Accumulation of Heavy Metals Present in The Aerosol Particulate Matter (PM). Applied Sciences (Switzerland), 2021, 11, 4348.	1.3	4
111	Microstructural and thermal characterization of neolithic ceramics. Applied Physics A: Materials Science and Processing, 2013, 113, 1089-1100.	1.1	3
112	PM2.5 in Indoor Air of a Bakery: Chemical Characterization and Size Distribution. Atmosphere, 2020, 11, 415.	1.0	3
113	Calcitic-based stones protection by a low-fluorine modified methacrylic coating. Environmental Science and Pollution Research, 2021, , 1.	2.7	2
114	Study of a surface coating present on a Renaissance Piety from the Museum of Ancient Art (Castello Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	2
115	Indoor Air Quality in Heritage and Museum Buildings. , 2022, , 1003-1031.		2
116	The interaction between environmental pollution and cultural heritage: from outdoor to indoor â€œMetroArcheo2020â€œ. Environmental Science and Pollution Research, 2022, 29, 29382.	2.7	2
117	The Damage Induced by Atmospheric Pollution on Stone Surfaces: The Chemical Characterization of Black Crusts. Springer INdAM Series, 2021, , 123-134.	0.4	1
118	How to obtain large amounts of location- and time-specific PM2.5 with homogeneous mass and composition? A possible approach, from particulate collection to chemical characterization. Atmospheric Pollution Research, 2021, 12, 101193.	1.8	1
119	Development of a new procedure for the assessment of particulate matter (PM) carbonaceous fraction on stone materials exposed to atmospheric pollution. Journal of Physics: Conference Series, 2022, 2204, 012106.	0.3	1
120	In vitro assessment of the proinflammatory effects of biomass combustion generated ultrafine particles (UFP). Toxicology Letters, 2015, 238, S219.	0.4	0
121	Measurement of the carbonaceous component in the Milan urban particulate matter. Annali Di Chimica, 2003, 93, 389-96.	0.6	0