Fulvio Amato

List of Publications by Year
in descending order

115	9,008	29994 54	43802 91
papers	citations	h-index	g-index

129	129	129	7420
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. Atmospheric Environment, 2009, 43, 2770-2780.	1.9	492
2	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. Atmospheric Environment, 2007, 41, 7219-7231.	1.9	396
3	Spatial and chemical patterns of PM10 in road dust deposited in urban environment. Atmospheric Environment, 2009, 43, 1650-1659.	1.9	387
4	Urban air quality: The challenge of traffic non-exhaust emissions. Journal of Hazardous Materials, 2014, 275, 31-36.	6.5	314
5	Sources and variability of inhalable road dust particles in three European cities. Atmospheric Environment, 2011, 45, 6777-6787.	1.9	294
6	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in fiveÂsouthern European cities. Atmospheric Chemistry and Physics, 2016, 16, 3289-3309.	1.9	267
7	PM10 emission factors for non-exhaust particles generated by road traffic in an urban street canyon and along a freeway in Switzerland. Atmospheric Environment, 2010, 44, 2330-2340.	1.9	243
8	Child exposure to indoor and outdoor air pollutants in schools in Barcelona, Spain. Environment International, 2014, 69, 200-212.	4.8	243
9	Source apportionment of PM10 and PM2.5 at multiple sites in the strait of Gibraltar by PMF: impact of shipping emissions. Environmental Science and Pollution Research, 2011, 18, 260-269.	2.7	238
10	Chemical Tracers of Particulate Emissions from Commercial Shipping. Environmental Science & Technology, 2009, 43, 7472-7477.	4.6	227
11	A review on the effectiveness of street sweeping, washing and dust suppressants as urban PM control methods. Science of the Total Environment, 2010, 408, 3070-3084.	3.9	208
12	The Effects of Particulate Matter Sources on Daily Mortality: A Case-Crossover Study of Barcelona, Spain. Environmental Health Perspectives, 2011, 119, 1781-1787.	2.8	161
13	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. Atmospheric Chemistry and Physics, 2011, 11, 12067-12084.	1.9	157
14	Hourly elemental concentrations in PM_{2.5} aerosols sampled simultaneously at urban background and road site during SAPUSS â€“ diurnal variations and PMF receptor modelling. Atmospheric Chemistry and Physics, 2013, 13, 4375-4392.	1.9	155
15	Sources of indoor and outdoor PM2.5 concentrations in primary schools. Science of the Total Environment, 2014, 490, 757-765.	3.9	153
16	The association between greenness and traffic-related air pollution at schools. Science of the Total Environment, 2015, 523, 59-63.	3.9	146
17	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. Atmospheric Environment, 2014, 92, 461-468.	1.9	141
18	Exposure to airborne particulate matter in the subway system. Science of the Total Environment, 2015, 511, 711-722.	3.9	140

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19	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. Environmental Research, 2015, 142, 495-510.	3.7	136
20	Monitoring the impact of desert dust outbreaks for air quality for health studies. Environment International, 2019, 130, 104867.	4.8	134
21	Source apportionment of the ambient PM2.5 across St. Louis using constrained positive matrix factorization. Atmospheric Environment, 2012, 46, 329-337.	1.9	132
22	Biomass burning contributions to urban aerosols in a coastal Mediterranean City. Science of the Total Environment, 2012, 427-428, 175-190.	3.9	130
23	A new look at inhalable metalliferous airborne particles on rail subway platforms. Science of the Total Environment, 2015, 505, 367-375.	3.9	116
24	Urban NH3 levels and sources in a Mediterranean environment. Atmospheric Environment, 2012, 57, 153-164.	1.9	115
25	Trends of road dust emissions contributions on ambient air particulate levels at rural, urban and industrial sites in southern Spain. Atmospheric Chemistry and Physics, 2014, 14, 3533-3544.	1.9	115
26	Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. Environment International, 2020, 135, 105345.	4.8	106
27	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. Atmospheric Chemistry and Physics, 2011, 11, 2917-2931.	1.9	104
28	Daily and hourly sourcing of metallic and mineral dust in urban air contaminated by traffic and coal-burning emissions. Atmospheric Environment, 2013, 68, 33-44.	1.9	104
29	Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: implications for air quality policy. Atmospheric Chemistry and Physics, 2013, 13, 6185-6206.	1.9	104
30	Chemical profiling of PM10 from urban road dust. Science of the Total Environment, 2018, 634, 41-51.	3.9	104
31	Traffic induced particle resuspension in Paris: Emission factors and source contributions. Atmospheric Environment, 2016, 129, 114-124.	1.9	96
32	Origin of inorganic and organic components of PM 2.5 in subway stations of Barcelona, Spain. Environmental Pollution, 2016, 208, 125-136.	3.7	95
33	A comprehensive assessment of PM emissions from paved roads: Real-world Emission Factors and intense street cleaning trials. Science of the Total Environment, 2010, 408, 4309-4318.	3.9	92
34	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. Atmospheric Chemistry and Physics, 2011, 11, 9415-9430.	1.9	89
35	New Insights from Zinc and Copper Isotopic Compositions into the Sources of Atmospheric Particulate Matter from Two Major European Cities. Environmental Science & Technology, 2016, 50, 9816-9824.	4.6	88
36	Physicochemical characterization and sources of the thoracic fraction of road dust in a Latin American megacity. Science of the Total Environment, 2019, 652, 434-446.	3.9	88

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37	Evidence of biomass burning aerosols in the Barcelona urban environment during winter time. Atmospheric Environment, 2013, 72, 81-88.	1.9	76
38	Neurodevelopmental Deceleration by Urban Fine Particles from Different Emission Sources: A Longitudinal Observational Study. Environmental Health Perspectives, 2016, 124, 1630-1636.	2.8	76
39	A multidisciplinary approach to characterise exposure risk and toxicological effects of PM10 and PM2.5 samples in urban environments. Ecotoxicology and Environmental Safety, 2012, 78, 327-335.	2.9	75
40	Emission factors from road dust resuspension in a Mediterranean freeway. Atmospheric Environment, 2012, 61, 580-587.	1.9	73
41	Application of Optimally Scaled Target Factor Analysis for Assessing Source Contribution of Ambient PM₁₀. Journal of the Air and Waste Management Association, 2009, 59, 1296-1307.	0.9	72
42	Summer ammonia measurements in a densely populated Mediterranean city. Atmospheric Chemistry and Physics, 2012, 12, 7557-7575.	1.9	72
43	Physical and chemical properties of non-exhaust particles generated from wear between pavements and tyres. Atmospheric Environment, 2020, 224, 117252.	1.9	70
44	Effect of fireworks events on urban background trace metal aerosol concentrations: Is the cocktail worth the show?. Journal of Hazardous Materials, 2010, 183, 945-949.	6.5	69
45	AIRUSE-LIFE +: estimation of natural source contributions to urban ambient air PM₁₀ and PM_{2.â€‰5} concentrations in southern Europe â€“ implications to compliance with limit values. Atmospheric Chemistry and Physics, 2017, 17, 3673-3685.	1.9	67
46	An inter-comparison of PM10 source apportionment using PCA and PMF receptor models in three European sites. Environmental Science and Pollution Research, 2016, 23, 15133-15148.	2.7	65
47	Chemical composition and source apportionment of PM10 at an urban background site in a highâ€“altitude Latin American megacity (Bogota, Colombia). Environmental Pollution, 2018, 233, 142-155.	3.7	64
48	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
49	Oxidative potential of subway PM 2.5. Atmospheric Environment, 2017, 148, 230-238.	1.9	63
50	Effect of rain events on the mobility of road dust load in two Dutch and Spanish roads. Atmospheric Environment, 2012, 62, 352-358.	1.9	61
51	Effect of ventilation strategies and air purifiers on the children's exposure to airborne particles and gaseous pollutants in school gyms. Science of the Total Environment, 2020, 712, 135673.	3.9	61
52	Effectiveness of commercial face masks to reduce personal PM exposure. Science of the Total Environment, 2019, 650, 1582-1590.	3.9	59
53	Evaluating urban PM10 pollution benefit induced by street cleaning activities. Atmospheric Environment, 2009, 43, 4472-4480.	1.9	58
54	Short-term variability of mineral dust, metals and carbon emission from road dust resuspension. Atmospheric Environment, 2013, 74, 134-140.	1.9	57

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55	Particulate and gaseous emissions from the combustion of different biofuels in a pellet stove. Atmospheric Environment, 2015, 120, 15-27.	1.9	56
56	First Results of the â€œCarbonaceous Aerosol in Rome and Environs (CARE)â€•Experiment: Beyond Current Standards for PM10. Atmosphere, 2017, 8, 249.	1.0	54
57	Biomass burning contributions estimated by synergistic coupling of daily and hourly aerosol composition records. Science of the Total Environment, 2015, 511, 11-20.	3.9	53
58	Road dust contribution to PM levels â€“ Evaluation of the effectiveness of street washing activities by means of Positive Matrix Factorization. Atmospheric Environment, 2011, 45, 2193-2201.	1.9	51
59	An empirical model to predict road dust emissions based on pavement and traffic characteristics. Environmental Pollution, 2018, 237, 713-720.	3.7	50
60	Concentrations, sources and geochemistry of airborne particulate matter at a major European airport. Journal of Environmental Monitoring, 2010, 12, 854.	2.1	49
61	Particulate air pollution and preeclampsia: a source-based analysis. Occupational and Environmental Medicine, 2014, 71, 570-577.	1.3	46
62	Vehicle interior air quality conditions when travelling by taxi. Environmental Research, 2019, 172, 529-542.	3.7	46
63	Bioaerosols in the Barcelona subway system. Indoor Air, 2017, 27, 564-575.	2.0	45
64	Phenomenology of high-ozone episodes in NE Spain. Atmospheric Chemistry and Physics, 2017, 17, 2817-2838.	1.9	45
65	Aerosol sources in subway environments. Environmental Research, 2018, 167, 314-328.	3.7	45
66	Effects of Road Dust Suppressants on PM Levels in a Mediterranean Urban Area. Environmental Science & Technology, 2014, 48, 8069-8077.	4.6	44
67	Impact of traffic intensity and pavement aggregate size on road dust particles loading. Atmospheric Environment, 2013, 77, 711-717.	1.9	41
68	Evaluation of receptor and chemical transport models for PM10 source apportionment. Atmospheric Environment: X, 2020, 5, 100053.	0.8	41
69	Loadings, chemical patterns and risks of inhalable road dust particles in an Atlantic city in the north of Portugal. Science of the Total Environment, 2020, 737, 139596.	3.9	40
70	New particle formation at ground level and in the vertical column over the Barcelona area. Atmospheric Research, 2015, 164-165, 118-130.	1.8	37
71	Receptor models application to multi-year ambient PM10 measurements in an industrialized ceramic area: Comparison of source apportionment results. Atmospheric Environment, 2008, 42, 9007-9017.	1.9	34
72	Physicochemical variations in atmospheric aerosols recorded at sea onboard the Atlanticâ€“Mediterranean 2008 Scholar Ship cruise (Part II): Natural versus anthropogenic influences revealed by PM10 trace element geochemistry. Atmospheric Environment, 2010, 44, 2563-2576.	1.9	34

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73	Daily and hourly chemical impact of springtime transboundary aerosols on Japanese air quality. Atmospheric Chemistry and Physics, 2013, 13, 1411-1424.	1.9	34
74	Impact of wood combustion on indoor air quality. Science of the Total Environment, 2020, 705, 135769.	3.9	33
75	Road Dust Emission Sources and Assessment of Street Washing Effect. Aerosol and Air Quality Research, 2014, 14, 734-743.	0.9	33
76	CALIOPE-Urban v1.0: coupling R-LINE with a mesoscale air quality modelling system for urban air quality forecasts over Barcelona city (Spain). Geoscientific Model Development, 2019, 12, 2811-2835.	1.3	28
77	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. Atmospheric Chemistry and Physics, 2013, 13, 8991-9019.	1.9	27
78	Natural versus anthropogenic inhalable aerosol chemistry of transboundary East Asian atmospheric outflows into western Japan. Science of the Total Environment, 2012, 424, 182-192.	3.9	26
79	Outdoor and indoor particle characterization from a large and uncontrolled combustion of a tire landfill. Science of the Total Environment, 2017, 593-594, 543-551.	3.9	25
80	Implementation of road dust resuspension in air quality simulations of particulate matter in Madrid (Spain). Frontiers in Environmental Science, 2015, 3, .	1.5	22
81	Physico-chemical characterization of playground sand dust, inhalable and bioaccessible fractions. Chemosphere, 2018, 190, 454-462.	4.2	22
82	The role of PIXE in the AIRUSE project â€œtesting and development of air quality mitigation measures in Southern Europeâ€. Nuclear Instruments & Methods in Physics Research B, 2015, 363, 92-98.	0.6	20
83	Effects of water and CMA in mitigating industrial road dust resuspension. Atmospheric Environment, 2016, 131, 334-340.	1.9	20
84	Vertical and horizontal fall-off of black carbon and NO2 within urban blocks. Science of the Total Environment, 2019, 686, 236-245.	3.9	18
85	Compositional changes of PM2.5 in NE Spain during 2009â€"2018: A trend analysis of the chemical composition and source apportionment. Science of the Total Environment, 2021, 795, 148728.	3.9	18
86	Impact of the wood combustion in an open fireplace on the air quality of a living room: Estimation of the respirable fraction. Science of the Total Environment, 2018, 628-629, 169-176.	3.9	17
87	Spatio-temporal patterns of high summer ozone events in the Madrid Basin, Central Spain. Atmospheric Environment, 2018, 185, 207-220.	1.9	17
88	Source apportionment of PM2.5 and PM10 by Ionic and Mass Balance (IMB) in a traffic-influenced urban atmosphere, in Portugal. Atmospheric Environment, 2020, 223, 117217.	1.9	17
89	Rapid changes of dust geochemistry in the Saharan Air Layer linked to sources and meteorology. Atmospheric Environment, 2020, 223, 117186.	1.9	16
90	Within-city contrasts in PM composition and sources and their relationship with nitrogen oxides. Journal of Environmental Monitoring, 2012, 14, 2718.	2.1	15

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91	Source apportionment of urban PM1 in Barcelona during SAPUSS using organic and inorganic components. Environmental Science and Pollution Research, 2019, 26, 32114-32127.	2.7	15
92	Household Dust: Loadings and PM10-Bound Plasticizers and Polycyclic Aromatic Hydrocarbons. Atmosphere, 2019, 10, 785.	1.0	15
93	Variation of PM2.5 concentrations in relation to street washing activities. Atmospheric Environment, 2012, 54, 465-469.	1.9	14
94	Improving the modeling of road dust levels for Barcelona at urban scale and street level. Atmospheric Environment, 2016, 125, 231-242.	1.9	14
95	Bedrock controls on the mineralogy and chemistry of PM10 extracted from Australian desert sediments. Environmental Geology, 2009, 57, 411-420.	1.2	13
96	Simple estimates of vehicle-induced resuspension rates. Journal of Environmental Management, 2011, 92, 2855-2859.	3.8	13
97	Enhanced CAMx source apportionment analysis at an urban receptor in Milan based on source categories and emission regions. Atmospheric Environment: X, 2019, 2, 100020.	0.8	13
98	Size-Resolved Particle Number Emission Patterns under Real-World Driving Conditions Using Positive Matrix Factorization. Environmental Science & Technology, 2012, 46, 11187-11194.	4.6	12
99	Vehicle Non-Exhaust Emissions. , 2018, , 21-65.		12
100	Organic profiles of brake wear particles. Atmospheric Research, 2021, 255, 105557.	1.8	12
101	Vertical and horizontal variability of PM₁₀ source contributions in Barcelona during SAPUSS. Atmospheric Chemistry and Physics, 2016, 16, 6785-6804.	1.9	10
102	Spatial Distribution and Chemical Composition of Road Dust in Two High-Altitude Latin American Cities. Atmosphere, 2021, 12, 1109.	1.0	10
103	Trace element fractionation processes in resuspended mineral aerosols extracted from Australian continental surface materials. Soil Research, 2008, 46, 128.	0.6	10
104	Characterisation of non-exhaust emissions from road traffic in Lisbon. Atmospheric Environment, 2022, 286, 119221.	1.9	10
105	Road Traffic: A Major Source of Particulate Matter in Europe. Handbook of Environmental Chemistry, 2013, , 165-193.	0.2	9
106	Gaining knowledge on source contribution to aerosol optical absorption properties and organics by receptor modelling. Atmospheric Environment, 2020, 243, 117873.	1.9	9
107	Using miniaturised scanning mobility particle sizers to observe size distribution patterns of quasi-ultrafine aerosols inhaled during city commuting. Environmental Research, 2020, 191, 109978.	3.7	9
108	Evaluation of factors influencing road dust loadings in a Latin American urban center. Journal of the Air and Waste Management Association, 2021, 71, 268-280.	0.9	9

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109	Geochemistry and oxidative potential of the respirable fraction of powdered mined Chinese coals. Science of the Total Environment, 2021, 800, 149486.	3.9	9
110	Chemistry and sources of PM2.5 and volatile organic compounds breathed inside urban commuting and tourist buses. Atmospheric Environment, 2020, 223, 117234.	1.9	8
111	Non-technological Measures on Road Traffic to Abate Urban Air Pollution. , 2018, , 229-260.		4
112	Short-term effect of air pollution on attention function in adolescents (ATENC!Ã“): A randomized controlled trial in high schools in Barcelona, Spain. Environment International, 2021, 156, 106614.	4.8	4
113	Numerical prediction of the distribution of black carbon in a street canyon using a semi-Lagrangian finite element formulation. Building and Environment, 2021, 199, 107910.	3.0	3
114	Bioaerosols in public and tourist buses. Aerobiologia, 2021, 37, 525-541.	0.7	2
115	Potential Impact of a Low Emission Zone on Street-Level Air Quality in Barcelona City Using CALIOPE-Urban Model. Springer Proceedings in Complexity, 2020, , 171-176.	0.2	0