Fulvio Amato

List of Publications by Citations

121 papers	6,836 citations	46 h-index	81 g-index
129 ext. papers	7,870 ext. citations	6.8 avg, IF	5.58 L-index

#	Paper	IF	Citations
121	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. *Atmospheric Environment*, **2009**, 43, 2770-2780	5.3	404
120	Spatial and chemical patterns of PM10 in road dust deposited in urban environment. *Atmospheric Environment*, **2009**, 43, 1650-1659	5.3	331
119	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. *Atmospheric Environment*, **2007**, 41, 7219-7231	5.3	330
118	Sources and variability of inhalable road dust particles in three European cities. *Atmospheric Environment*, **2011**, 45, 6777-6787	5.3	234
117	Urban air quality: the challenge of traffic non-exhaust emissions. *Journal of Hazardous Materials*, **2014**, 275, 31-6	12.8	221
116	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in five´southern European cities. *Atmospheric Chemistry and Physics*, **2016**, 16, 3289-3309	6.8	191
115	Child exposure to indoor and outdoor air pollutants in schools in Barcelona, Spain. *Environment International*, **2014**, 69, 200-12	12.9	190
114	Source apportionment of PM(10) and PM(2.5) at multiple sites in the strait of Gibraltar by PMF: impact of shipping emissions. *Environmental Science and Pollution Research*, **2011**, 18, 260-9	5.1	190
113	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	5.3	190
112	Chemical tracers of particulate emissions from commercial shipping. *Environmental Science & Technology*, **2009**, 43, 7472-7	10.3	176
111	A review on the effectiveness of street sweeping, washing and dust suppressants as urban PM control methods. *Science of the Total Environment*, **2010**, 408, 3070-84	10.2	164
110	The effects of particulate matter sources on daily mortality: a case-crossover study of Barcelona, Spain. *Environmental Health Perspectives*, **2011**, 119, 1781-7	8.4	143
109	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	6.8	133
108	Sources of indoor and outdoor PM2.5 concentrations in primary schools. *Science of the Total Environment*, **2014**, 490, 757-65	10.2	119
107	Source apportionment of the ambient PM2.5 across St. Louis using constrained positive matrix factorization. *Atmospheric Environment*, **2012**, 46, 329-337	5.3	118
106	Hourly elemental concentrations in PM_{2.5} aerosols sampled simultaneously at urban background and road site during SAPUSS – diurnal variations and PMF receptor modelling. *Atmospheric Chemistry and Physics*, **2013**, 13, 4375-4392	6.8	118
105	The association between greenness and traffic-related air pollution at schools. *Science of the Total Environment*, **2015**, 523, 59-63	10.2	114

104	Biomass burning contributions to urban aerosols in a coastal Mediterranean city. *Science of the Total Environment*, **2012**, 427-428, 175-90	10.2	113
103	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. *Environmental Research*, **2015**, 142, 495-510	7.9	105
102	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. *Atmospheric Environment*, **2014**, 92, 461-468	5.3	105
101	Exposure to airborne particulate matter in the subway system. *Science of the Total Environment*, **2015**, 511, 711-22	10.2	99
100	Urban NH3 levels and sources in a Mediterranean environment. *Atmospheric Environment*, **2012**, 57, 153-164	5.3	88
99	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	5.3	85
98	Monitoring the impact of desert dust outbreaks for air quality for health studies. *Environment International*, **2019**, 130, 104867	12.9	84
97	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. *Atmospheric Chemistry and Physics*, **2011**, 11, 2917-2931	6.8	84
96	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	6.8	83
95	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, 4309-18	10.2	83
94	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	6.8	80
93	A new look at inhalable metalliferous airborne particles on rail subway platforms. *Science of the Total Environment*, **2015**, 505, 367-75	10.2	77
92	Origin of inorganic and organic components of PM2.5 in subway stations of Barcelona, Spain. *Environmental Pollution*, **2016**, 208, 125-136	9.3	74
91	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. *Atmospheric Chemistry and Physics*, **2011**, 11, 9415-9430	6.8	72
90	Traffic induced particle resuspension in Paris: Emission factors and source contributions. *Atmospheric Environment*, **2016**, 129, 114-124	5.3	69
89	A multidisciplinary approach to characterise exposure risk and toxicological effects of PM□and PM□samples in urban environments. *Ecotoxicology and Environmental Safety*, **2012**, 78, 327-35	7	66
88	Chemical profiling of PM from urban road dust. *Science of the Total Environment*, **2018**, 634, 41-51	10.2	61
87	Evidence of biomass burning aerosols in the Barcelona urban environment during winter time. *Atmospheric Environment*, **2013**, 72, 81-88	5.3	61

86	Effect of fireworks events on urban background trace metal aerosol concentrations: is the cocktail worth the show?. *Journal of Hazardous Materials*, **2010**, 183, 945-9	12.8	60
85	Application of optimally scaled target factor analysis for assessing source contribution of ambient PM10. *Journal of the Air and Waste Management Association*, **2009**, 59, 1296-307	2.4	58
84	Neurodevelopmental Deceleration by Urban Fine Particles from Different Emission Sources: A Longitudinal Observational Study. *Environmental Health Perspectives*, **2016**, 124, 1630-1636	8.4	58
83	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, 9816-24	10.3	56
82	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	10.2	55
81	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	5.3	54
80	Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. *Environment International*, **2020**, 135, 105345	12.9	54
79	AIRUSE-LIFE +: estimation of natural source contributions to urban ambient air PM₁₀ and PM_{2. 5} concentrations in southern Europe Implications to compliance with limit values. *Atmospheric Chemistry and Physics*, **2017**, 17, 3673-3685	6.8	49
78	An inter-comparison of PM10 source apportionment using PCA and PMF receptor models in three European sites. *Environmental Science and Pollution Research*, **2016**, 23, 15133-48	5.1	48
77	Emission factors from road dust resuspension in a Mediterranean freeway. *Atmospheric Environment*, **2012**, 61, 580-587	5.3	48
76	Evaluating urban PM10 pollution benefit induced by street cleaning activities. *Atmospheric Environment*, **2009**, 43, 4472-4480	5.3	47
75	Short-term variability of mineral dust, metals and carbon emission from road dust resuspension. *Atmospheric Environment*, **2013**, 74, 134-140	5.3	46
74	Road dust contribution to PM levels Evaluation of the effectiveness of street washing activities by means of Positive Matrix Factorization. *Atmospheric Environment*, **2011**, 45, 2193-2201	5.3	46
73	Particulate and gaseous emissions from the combustion of different biofuels in a pellet stove. *Atmospheric Environment*, **2015**, 120, 15-27	5.3	45
72	Summer ammonia measurements in a densely populated Mediterranean city. *Atmospheric Chemistry and Physics*, **2012**, 12, 7557-7575	6.8	45
71	Oxidative potential of subway PM2.5. *Atmospheric Environment*, **2017**, 148, 230-238	5.3	44
70	Biomass burning contributions estimated by synergistic coupling of daily and hourly aerosol composition records. *Science of the Total Environment*, **2015**, 511, 11-20	10.2	43
69	Chemical composition and source apportionment of PM at an urban background site in a high-altitude Latin American megacity (Bogota, Colombia). *Environmental Pollution*, **2018**, 233, 142-155	9.3	42

68	First Results of the Carbonaceous Aerosol in Rome and Environs (CARE) Experiment: Beyond Current Standards for PM10. *Atmosphere*, **2017**, 8, 249	2.7	42
67	Effect of rain events on the mobility of road dust load in two Dutch and Spanish roads. *Atmospheric Environment*, **2012**, 62, 352-358	5.3	41
66	Concentrations, sources and geochemistry of airborne particulate matter at a major European airport. *Journal of Environmental Monitoring*, **2010**, 12, 854-62		41
65	Effectiveness of commercial face masks to reduce personal PM exposure. *Science of the Total Environment*, **2019**, 650, 1582-1590	10.2	40
64	Effects of road dust suppressants on PM levels in a Mediterranean urban area. *Environmental Science & Technology*, **2014**, 48, 8069-77	10.3	38
63	Particulate air pollution and preeclampsia: a source-based analysis. *Occupational and Environmental Medicine*, **2014**, 71, 570-7	2.1	34
62	An empirical model to predict road dust emissions based on pavement and traffic characteristics. *Environmental Pollution*, **2018**, 237, 713-720	9.3	34
61	Phenomenology of high-ozone episodes in NE Spain. *Atmospheric Chemistry and Physics*, **2017**, 17, 2817-2838	5.3	33
60	Bioaerosols in the Barcelona subway system. *Indoor Air*, **2017**, 27, 564-575	5.4	32
59	Physicochemical variations in atmospheric aerosols recorded at sea onboard the Atlantic-Mediterranean 2008 Scholar Ship cruise (Part II): Natural versus anthropogenic influences revealed by PM10 trace element geochemistry. *Atmospheric Environment*, **2010**, 44, 2563-2576	5.3	32
58	Physical and chemical properties of non-exhaust particles generated from wear between pavements and tyres. *Atmospheric Environment*, **2020**, 224, 117252	5.3	32
57	Impact of traffic intensity and pavement aggregate size on road dust particles loading. *Atmospheric Environment*, **2013**, 77, 711-717	5.3	30
56	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	10.2	30
55	Vehicle interior air quality conditions when travelling by taxi. *Environmental Research*, **2019**, 172, 529-542	7.9	29
54	New particle formation at ground level and in the vertical column over the Barcelona area. *Atmospheric Research*, **2015**, 164-165, 118-130	5.4	29
53	Aerosol sources in subway environments. *Environmental Research*, **2018**, 167, 314-328	7.9	28
52	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	5.3	28
51	Daily and hourly chemical impact of springtime transboundary aerosols on Japanese air quality. *Atmospheric Chemistry and Physics*, **2013**, 13, 1411-1424	6.8	26

50	Road Dust Emission Sources and Assessment of Street Washing Effect. *Aerosol and Air Quality Research*, **2014**, 14, 734-743	4.6	26
49	Natural versus anthropogenic inhalable aerosol chemistry of transboundary East Asian atmospheric outflows into western Japan. *Science of the Total Environment*, **2012**, 424, 182-92	10.2	23
48	Evaluation of receptor and chemical transport models for PM10 source apportionment. *Atmospheric Environment: X*, **2020**, 5, 100053	2.8	23
47	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. *Atmospheric Chemistry and Physics*, **2013**, 13, 8991-9019	6.8	22
46	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	10.2	19
45	Physico-chemical characterization of playground sand dust, inhalable and bioaccessible fractions. *Chemosphere*, **2018**, 190, 454-462	8.4	19
44	The role of PIXE in the AIRUSE project Testing and development of air quality mitigation measures in Southern Europe *Nuclear Instruments & Methods in Physics Research B*, **2015**, 363, 92-98	1.2	18
43	Effects of water and CMA in mitigating industrial road dust resuspension. *Atmospheric Environment*, **2016**, 131, 334-340	5.3	18
42	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	10.2	16
41	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	6.3	16
40	Impact of wood combustion on indoor air quality. *Science of the Total Environment*, **2020**, 705, 135769	10.2	16
39	Within-city contrasts in PM composition and sources and their relationship with nitrogen oxides. *Journal of Environmental Monitoring*, **2012**, 14, 2718-28		15
38	Implementation of road dust resuspension in air quality simulations of particulate matter in Madrid (Spain). *Frontiers in Environmental Science*, **2015**, 3,	4.8	14
37	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in 5 Southern European cities		13
36	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	10.2	12
35	Bedrock controls on the mineralogy and chemistry of PM10 extracted from Australian desert sediments. *Environmental Geology*, **2009**, 57, 411-420		12
34	Spatio-temporal patterns of high summer ozone events in the Madrid Basin, Central Spain. *Atmospheric Environment*, **2018**, 185, 207-220	5.3	12
33	Size-resolved particle number emission patterns under real-world driving conditions using positive matrix factorization. *Environmental Science & Technology*, **2012**, 46, 11187-94	10.3	11

32	Simple estimates of vehicle-induced resuspension rates. *Journal of Environmental Management*, **2011**, 92, 2855-9	7.9	11
31	Vertical and horizontal fall-off of black carbon and NO within urban blocks. *Science of the Total Environment*, **2019**, 686, 236-245	10.2	10
30	Improving the modeling of road dust levels for Barcelona at urban scale and street level. *Atmospheric Environment*, **2016**, 125, 231-242	5.3	10
29	Variation of PM2.5 concentrations in relation to street washing activities. *Atmospheric Environment*, **2012**, 54, 465-469	5.3	10
28	Trace element fractionation processes in resuspended mineral aerosols extracted from Australian continental surface materials. *Soil Research*, **2008**, 46, 128	1.8	10
27	Enhanced CAMx source apportionment analysis at an urban receptor in Milan based on source categories and emission regions. *Atmospheric Environment: X*, **2019**, 2, 100020	2.8	9
26	Vertical and horizontal variability of PM₁₀ source contributions in Barcelona during SAPUSS. *Atmospheric Chemistry and Physics*, **2016**, 16, 6785-6804	6.8	9
25	Road Traffic: A Major Source of Particulate Matter in Europe. *Handbook of Environmental Chemistry*, **2013**, 165-193	0.8	9
24	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	5.3	9
23	Rapid changes of dust geochemistry in the Saharan Air Layer linked to sources and meteorology. *Atmospheric Environment*, **2020**, 223, 117186	5.3	9
22	Household Dust: Loadings and PM10-Bound Plasticizers and Polycyclic Aromatic Hydrocarbons. *Atmosphere*, **2019**, 10, 785	2.7	8
21	Vehicle Non-Exhaust Emissions **2018**, 21-65		8
20	Presenting SAPUSS: solving aerosol problem by using synergistic strategies at Barcelona, Spain		7
19	Hourly elemental concentrations in PM_{2.5} aerosols sampled simultaneously at urban background and road site		7
18	Source apportionment of urban PM in Barcelona during SAPUSS using organic and inorganic components. *Environmental Science and Pollution Research*, **2019**, 26, 32114-32127	5.1	6
17	Gaining knowledge on source contribution to aerosol optical absorption properties and organics by receptor modelling. *Atmospheric Environment*, **2020**, 243, 117873	5.3	6
16	Chemistry and sources of PM2.5 and volatile organic compounds breathed inside urban commuting and tourist buses. *Atmospheric Environment*, **2020**, 223, 117234	5.3	5
15	Organic profiles of brake wear particles. *Atmospheric Research*, **2021**, 255, 105557	5.4	5

14	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	2.4	5
13	Using miniaturised scanning mobility particle sizers to observe size distribution patterns of quasi-ultrafine aerosols inhaled during city commuting. *Environmental Research*, **2020**, 191, 109978	7.9	4
12	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain		4
11	Compositional changes of PM in NE Spain during 2009-2018: A trend analysis of the chemical composition and source apportionment. *Science of the Total Environment*, **2021**, 795, 148728	10.2	4
10	Non-technological Measures on Road Traffic to Abate Urban Air Pollution **2018**, 229-260		3
9	Geochemistry and oxidative potential of the respirable fraction of powdered mined Chinese coals. *Science of the Total Environment*, **2021**, 800, 149486	10.2	3
8	Trends of road dust emissions contributions on ambient PM levels at rural, urban and industrial sites in Southern Spain		2
7	Spatial Distribution and Chemical Composition of Road Dust in Two High-Altitude Latin American Cities. *Atmosphere*, **2021**, 12, 1109	2.7	2
6	Daily and hourly chemical impact of springtime transboundary aerosols on Japanese air quality		1
5	Summer ammonia measurements in a densely populated Mediterranean city		1
4	Short-term effect of air pollution on attention function in adolescents (ATENCIÓ A randomized controlled trial in high schools in Barcelona, Spain. *Environment International*, **2021**, 156, 106614	12.9	1
3	Bioaerosols in public and tourist buses. *Aerobiologia*, **2021**, 37, 525-541	2.4	0
2	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	6.5	0
1	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	0.3	