

Fulvio Amato

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Bioaerosols in public and tourist buses. <i>Aerobiologia</i> , 2021 , 37, 525-541	2.4	0
120	Organic profiles of brake wear particles. <i>Atmospheric Research</i> , 2021 , 255, 105557	5.4	5
119	Evaluation of factors influencing road dust loadings in a Latin American urban center. <i>Journal of the Air and Waste Management Association</i> , 2021 , 71, 268-280	2.4	5
118	Numerical prediction of the distribution of black carbon in a street canyon using a semi-Lagrangian finite element formulation. <i>Building and Environment</i> , 2021 , 199, 107910	6.5	0
117	Spatial Distribution and Chemical Composition of Road Dust in Two High-Altitude Latin American Cities. <i>Atmosphere</i> , 2021 , 12, 1109	2.7	2
116	Compositional changes of PM in NE Spain during 2009-2018: A trend analysis of the chemical composition and source apportionment. <i>Science of the Total Environment</i> , 2021 , 795, 148728	10.2	4
115	Short-term effect of air pollution on attention function in adolescents (ATENCIA): A randomized controlled trial in high schools in Barcelona, Spain. <i>Environment International</i> , 2021 , 156, 106614	12.9	1
114	Geochemistry and oxidative potential of the respirable fraction of powdered mined Chinese coals. <i>Science of the Total Environment</i> , 2021 , 800, 149486	10.2	3
113	Gaining knowledge on source contribution to aerosol optical absorption properties and organics by receptor modelling. <i>Atmospheric Environment</i> , 2020 , 243, 117873	5.3	6
112	Using miniaturised scanning mobility particle sizers to observe size distribution patterns of quasi-ultrafine aerosols inhaled during city commuting. <i>Environmental Research</i> , 2020 , 191, 109978	7.9	4
111	Loadings, chemical patterns and risks of inhalable road dust particles in an Atlantic city in the north of Portugal. <i>Science of the Total Environment</i> , 2020 , 737, 139596	10.2	19
110	Potential Impact of a Low Emission Zone on Street-Level Air Quality in Barcelona City Using CALIOPE-Urban Model. <i>Springer Proceedings in Complexity</i> , 2020 , 171-176	0.3	
109	Evaluation of receptor and chemical transport models for PM10 source apportionment. <i>Atmospheric Environment: X</i> , 2020 , 5, 100053	2.8	23
108	Physical and chemical properties of non-exhaust particles generated from wear between pavements and tyres. <i>Atmospheric Environment</i> , 2020 , 224, 117252	5.3	32
107	Chemistry and sources of PM2.5 and volatile organic compounds breathed inside urban commuting and tourist buses. <i>Atmospheric Environment</i> , 2020 , 223, 117234	5.3	5
106	Source apportionment of PM2.5 and PM10 by Ionic and Mass Balance (IMB) in a traffic-influenced urban atmosphere, in Portugal. <i>Atmospheric Environment</i> , 2020 , 223, 117217	5.3	9
105	Source apportionment of particle number size distribution in urban background and traffic stations in four European cities. <i>Environment International</i> , 2020 , 135, 105345	12.9	54

104	Effect of ventilation strategies and air purifiers on the children's exposure to airborne particles and gaseous pollutants in school gyms. <i>Science of the Total Environment</i> , 2020 , 712, 135673	10.2	30
103	Impact of wood combustion on indoor air quality. <i>Science of the Total Environment</i> , 2020 , 705, 135769	10.2	16
102	Rapid changes of dust geochemistry in the Saharan Air Layer linked to sources and meteorology. <i>Atmospheric Environment</i> , 2020 , 223, 117186	5.3	9
101	Source apportionment of urban PM in Barcelona during SAPUSS using organic and inorganic components. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 32114-32127	5.1	6
100	Monitoring the impact of desert dust outbreaks for air quality for health studies. <i>Environment International</i> , 2019 , 130, 104867	12.9	84
99	Vertical and horizontal fall-off of black carbon and NO within urban blocks. <i>Science of the Total Environment</i> , 2019 , 686, 236-245	10.2	10
98	Vehicle interior air quality conditions when travelling by taxi. <i>Environmental Research</i> , 2019 , 172, 529-547	7.9	29
97	Enhanced CAMx source apportionment analysis at an urban receptor in Milan based on source categories and emission regions. <i>Atmospheric Environment: X</i> , 2019 , 2, 100020	2.8	9
96	CALIOPE-Urban v1.0: coupling R-LINE with a mesoscale air quality modelling system for urban air quality forecasts over Barcelona city (Spain). <i>Geoscientific Model Development</i> , 2019 , 12, 2811-2835	6.3	16
95	Household Dust: Loadings and PM10-Bound Plasticizers and Polycyclic Aromatic Hydrocarbons. <i>Atmosphere</i> , 2019 , 10, 785	2.7	8
94	Physicochemical characterization and sources of the thoracic fraction of road dust in a Latin American megacity. <i>Science of the Total Environment</i> , 2019 , 652, 434-446	10.2	55
93	Effectiveness of commercial face masks to reduce personal PM exposure. <i>Science of the Total Environment</i> , 2019 , 650, 1582-1590	10.2	40
92	Chemical profiling of PM from urban road dust. <i>Science of the Total Environment</i> , 2018 , 634, 41-51	10.2	61
91	Impact of the wood combustion in an open fireplace on the air quality of a living room: Estimation of the respirable fraction. <i>Science of the Total Environment</i> , 2018 , 628-629, 169-176	10.2	12
90	Chemical composition and source apportionment of PM at an urban background site in a high-altitude Latin American megacity (Bogota, Colombia). <i>Environmental Pollution</i> , 2018 , 233, 142-155	9.3	42
89	Physico-chemical characterization of playground sand dust, inhalable and bioaccessible fractions. <i>Chemosphere</i> , 2018 , 190, 454-462	8.4	19
88	Aerosol sources in subway environments. <i>Environmental Research</i> , 2018 , 167, 314-328	7.9	28
87	Non-technological Measures on Road Traffic to Abate Urban Air Pollution 2018 , 229-260		3

86	An empirical model to predict road dust emissions based on pavement and traffic characteristics. <i>Environmental Pollution</i> , 2018 , 237, 713-720	9.3	34
85	Spatio-temporal patterns of high summer ozone events in the Madrid Basin, Central Spain. <i>Atmospheric Environment</i> , 2018 , 185, 207-220	5.3	12
84	Vehicle Non-Exhaust Emissions 2018 , 21-65		8
83	Outdoor and indoor particle characterization from a large and uncontrolled combustion of a tire landfill. <i>Science of the Total Environment</i> , 2017 , 593-594, 543-551	10.2	16
82	Oxidative potential of subway PM _{2.5} . <i>Atmospheric Environment</i> , 2017 , 148, 230-238	5.3	44
81	Bioaerosols in the Barcelona subway system. <i>Indoor Air</i> , 2017 , 27, 564-575	5.4	32
80	Phenomenology of high-ozone episodes in NE Spain. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2817-2838	7.8	33
79	AIRUSE-LIFE+: estimation of natural source contributions to urban ambient air PM ₁₀ and PM _{2.5} concentrations in southern Europe. Implications to compliance with limit values. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3673-3685	6.8	49
78	First Results of the Carbonaceous Aerosol in Rome and Environs (CARE) Experiment: Beyond Current Standards for PM ₁₀ . <i>Atmosphere</i> , 2017 , 8, 249	2.7	42
77	Origin of inorganic and organic components of PM _{2.5} in subway stations of Barcelona, Spain. <i>Environmental Pollution</i> , 2016 , 208, 125-136	9.3	74
76	New Insights from Zinc and Copper Isotopic Compositions into the Sources of Atmospheric Particulate Matter from Two Major European Cities. <i>Environmental Science & Technology</i> , 2016 , 50, 9816-24	10.3	56
75	Vertical and horizontal variability of PM ₁₀ source contributions in Barcelona during SAPUSS. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6785-6804	6.8	9
74	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in five southern European cities. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3289-3309	6.8	191
73	An inter-comparison of PM ₁₀ source apportionment using PCA and PMF receptor models in three European sites. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 15133-48	5.1	48
72	Improving the modeling of road dust levels for Barcelona at urban scale and street level. <i>Atmospheric Environment</i> , 2016 , 125, 231-242	5.3	10
71	Effects of water and CMA in mitigating industrial road dust resuspension. <i>Atmospheric Environment</i> , 2016 , 131, 334-340	5.3	18
70	Traffic induced particle resuspension in Paris: Emission factors and source contributions. <i>Atmospheric Environment</i> , 2016 , 129, 114-124	5.3	69
69	Neurodevelopmental Deceleration by Urban Fine Particles from Different Emission Sources: A Longitudinal Observational Study. <i>Environmental Health Perspectives</i> , 2016 , 124, 1630-1636	8.4	58

68	New particle formation at ground level and in the vertical column over the Barcelona area. <i>Atmospheric Research</i> , 2015 , 164-165, 118-130	5.4	29
67	Exposure to airborne particulate matter in the subway system. <i>Science of the Total Environment</i> , 2015 , 511, 711-22	10.2	99
66	The association between greenness and traffic-related air pollution at schools. <i>Science of the Total Environment</i> , 2015 , 523, 59-63	10.2	114
65	Urban air quality comparison for bus, tram, subway and pedestrian commutes in Barcelona. <i>Environmental Research</i> , 2015 , 142, 495-510	7.9	105
64	Particulate and gaseous emissions from the combustion of different biofuels in a pellet stove. <i>Atmospheric Environment</i> , 2015 , 120, 15-27	5.3	45
63	The role of PIXE in the AIRUSE project Testing and development of air quality mitigation measures in Southern Europe <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 363, 92-98	1.2	18
62	Biomass burning contributions estimated by synergistic coupling of daily and hourly aerosol composition records. <i>Science of the Total Environment</i> , 2015 , 511, 11-20	10.2	43
61	Implementation of road dust resuspension in air quality simulations of particulate matter in Madrid (Spain). <i>Frontiers in Environmental Science</i> , 2015 , 3,	4.8	14
60	A new methodology to assess the performance and uncertainty of source apportionment models II: The results of two European intercomparison exercises. <i>Atmospheric Environment</i> , 2015 , 123, 240-250	5.3	54
59	A new look at inhalable metalliferous airborne particles on rail subway platforms. <i>Science of the Total Environment</i> , 2015 , 505, 367-75	10.2	77
58	Effects of road dust suppressants on PM levels in a Mediterranean urban area. <i>Environmental Science & Technology</i> , 2014 , 48, 8069-77	10.3	38
57	Urban air quality: the challenge of traffic non-exhaust emissions. <i>Journal of Hazardous Materials</i> , 2014 , 275, 31-6	12.8	221
56	Sources of indoor and outdoor PM _{2.5} concentrations in primary schools. <i>Science of the Total Environment</i> , 2014 , 490, 757-65	10.2	119
55	Subway platform air quality: Assessing the influences of tunnel ventilation, train piston effect and station design. <i>Atmospheric Environment</i> , 2014 , 92, 461-468	5.3	105
54	Child exposure to indoor and outdoor air pollutants in schools in Barcelona, Spain. <i>Environment International</i> , 2014 , 69, 200-12	12.9	190
53	Trends of road dust emissions contributions on ambient air particulate levels at rural, urban and industrial sites in southern Spain. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3533-3544	6.8	83
52	Particulate air pollution and preeclampsia: a source-based analysis. <i>Occupational and Environmental Medicine</i> , 2014 , 71, 570-7	2.1	34
51	Road Dust Emission Sources and Assessment of Street Washing Effect. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 734-743	4.6	26

50	Daily and hourly sourcing of metallic and mineral dust in urban air contaminated by traffic and coal-burning emissions. <i>Atmospheric Environment</i> , 2013 , 68, 33-44	5.3	85
49	Evidence of biomass burning aerosols in the Barcelona urban environment during winter time. <i>Atmospheric Environment</i> , 2013 , 72, 81-88	5.3	61
48	Road Traffic: A Major Source of Particulate Matter in Europe. <i>Handbook of Environmental Chemistry</i> , 2013 , 165-193	0.8	9
47	Impact of traffic intensity and pavement aggregate size on road dust particles loading. <i>Atmospheric Environment</i> , 2013 , 77, 711-717	5.3	30
46	Short-term variability of mineral dust, metals and carbon emission from road dust resuspension. <i>Atmospheric Environment</i> , 2013 , 74, 134-140	5.3	46
45	Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: implications for air quality policy. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6185-6206	6.8	80
44	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8991-9019	6.8	22
43	Hourly elemental concentrations in PM _{2.5} aerosols sampled simultaneously at urban background and road site during SAPUSS diurnal variations and PMF receptor modelling. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4375-4392	6.8	118
42	Daily and hourly chemical impact of springtime transboundary aerosols on Japanese air quality. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1411-1424	6.8	26
41	Source apportionment of the ambient PM _{2.5} across St. Louis using constrained positive matrix factorization. <i>Atmospheric Environment</i> , 2012 , 46, 329-337	5.3	118
40	Variation of PM _{2.5} concentrations in relation to street washing activities. <i>Atmospheric Environment</i> , 2012 , 54, 465-469	5.3	10
39	Urban NH ₃ levels and sources in a Mediterranean environment. <i>Atmospheric Environment</i> , 2012 , 57, 153-164	5.3	88
38	Natural versus anthropogenic inhalable aerosol chemistry of transboundary East Asian atmospheric outflows into western Japan. <i>Science of the Total Environment</i> , 2012 , 424, 182-92	10.2	23
37	Biomass burning contributions to urban aerosols in a coastal Mediterranean city. <i>Science of the Total Environment</i> , 2012 , 427-428, 175-90	10.2	113
36	Effect of rain events on the mobility of road dust load in two Dutch and Spanish roads. <i>Atmospheric Environment</i> , 2012 , 62, 352-358	5.3	41
35	Within-city contrasts in PM composition and sources and their relationship with nitrogen oxides. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 2718-28		15
34	Size-resolved particle number emission patterns under real-world driving conditions using positive matrix factorization. <i>Environmental Science & Technology</i> , 2012 , 46, 11187-94	10.3	11
33	Emission factors from road dust resuspension in a Mediterranean freeway. <i>Atmospheric Environment</i> , 2012 , 61, 580-587	5.3	48

32	A multidisciplinary approach to characterise exposure risk and toxicological effects of PM ₁₀ and PM _{2.5} samples in urban environments. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 78, 327-35	7	66
31	Summer ammonia measurements in a densely populated Mediterranean city. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7557-7575	6.8	45
30	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12067-12084	6.8	133
29	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2917-2931	6.8	84
28	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9415-9430	6.8	72
27	Simple estimates of vehicle-induced resuspension rates. <i>Journal of Environmental Management</i> , 2011 , 92, 2855-9	7.9	11
26	Road dust contribution to PM levels I Evaluation of the effectiveness of street washing activities by means of Positive Matrix Factorization. <i>Atmospheric Environment</i> , 2011 , 45, 2193-2201	5.3	46
25	Sources and variability of inhalable road dust particles in three European cities. <i>Atmospheric Environment</i> , 2011 , 45, 6777-6787	5.3	234
24	Source apportionment of PM(10) and PM(2.5) at multiple sites in the strait of Gibraltar by PMF: impact of shipping emissions. <i>Environmental Science and Pollution Research</i> , 2011 , 18, 260-9	5.1	190
23	The effects of particulate matter sources on daily mortality: a case-crossover study of Barcelona, Spain. <i>Environmental Health Perspectives</i> , 2011 , 119, 1781-7	8.4	143
22	Concentrations, sources and geochemistry of airborne particulate matter at a major European airport. <i>Journal of Environmental Monitoring</i> , 2010 , 12, 854-62		41
21	Effect of fireworks events on urban background trace metal aerosol concentrations: is the cocktail worth the show?. <i>Journal of Hazardous Materials</i> , 2010 , 183, 945-9	12.8	60
20	A review on the effectiveness of street sweeping, washing and dust suppressants as urban PM control methods. <i>Science of the Total Environment</i> , 2010 , 408, 3070-84	10.2	164
19	A comprehensive assessment of PM emissions from paved roads: real-world Emission Factors and intense street cleaning trials. <i>Science of the Total Environment</i> , 2010 , 408, 4309-18	10.2	83
18	PM ₁₀ emission factors for non-exhaust particles generated by road traffic in an urban street canyon and along a freeway in Switzerland. <i>Atmospheric Environment</i> , 2010 , 44, 2330-2340	5.3	190
17	Physicochemical variations in atmospheric aerosols recorded at sea onboard the AtlanticMediterranean 2008 Scholar Ship cruise (Part II): Natural versus anthropogenic influences revealed by PM ₁₀ trace element geochemistry. <i>Atmospheric Environment</i> , 2010 , 44, 2563-2576	5.3	32
16	Spatial and chemical patterns of PM ₁₀ in road dust deposited in urban environment. <i>Atmospheric Environment</i> , 2009 , 43, 1650-1659	5.3	331
15	Quantifying road dust resuspension in urban environment by Multilinear Engine: A comparison with PMF2. <i>Atmospheric Environment</i> , 2009 , 43, 2770-2780	5.3	404

14	Evaluating urban PM ₁₀ pollution benefit induced by street cleaning activities. <i>Atmospheric Environment</i> , 2009 , 43, 4472-4480	5.3	47
13	Bedrock controls on the mineralogy and chemistry of PM ₁₀ extracted from Australian desert sediments. <i>Environmental Geology</i> , 2009 , 57, 411-420		12
12	Chemical tracers of particulate emissions from commercial shipping. <i>Environmental Science & Technology</i> , 2009 , 43, 7472-7	10.3	176
11	Application of optimally scaled target factor analysis for assessing source contribution of ambient PM ₁₀ . <i>Journal of the Air and Waste Management Association</i> , 2009 , 59, 1296-307	2.4	58
10	Receptor models application to multi-year ambient PM ₁₀ measurements in an industrialized ceramic area: Comparison of source apportionment results. <i>Atmospheric Environment</i> , 2008 , 42, 9007-9017	5.7	28
9	Trace element fractionation processes in resuspended mineral aerosols extracted from Australian continental surface materials. <i>Soil Research</i> , 2008 , 46, 128	1.8	10
8	Source origin of trace elements in PM from regional background, urban and industrial sites of Spain. <i>Atmospheric Environment</i> , 2007 , 41, 7219-7231	5.3	330
7	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain		4
6	Presenting SAPUSS: solving aerosol problem by using synergistic strategies at Barcelona, Spain		7
5	Hourly elemental concentrations in PM _{2.5} aerosols sampled simultaneously at urban background and road site		7
4	Daily and hourly chemical impact of springtime transboundary aerosols on Japanese air quality		1
3	Trends of road dust emissions contributions on ambient PM levels at rural, urban and industrial sites in Southern Spain		2
2	AIRUSE-LIFE+: a harmonized PM speciation and source apportionment in 5 Southern European cities		13
1	Summer ammonia measurements in a densely populated Mediterranean city		1