Olivier Favez

List of Publications by Year in Descending Order

43 papers	1,116 citations	20 h-index	33 g-index
44 ext. papers	1,461 ext. citations	6.6 avg, IF	4.08 L-index

#	Paper	IF	Citations
43	Modelling aerosol molecular markers in a 3D air quality model: Focus on anthropogenic organic markers.. *Science of the Total Environment*, **2022**, 155360	10.2	0
42	Cellulose in atmospheric particulate matter at rural and urban sites across France and Switzerland. *Atmospheric Chemistry and Physics*, **2022**, 22, 6021-6043	6.8	0
41	European Aerosol Phenomenology - 8: Harmonised Source Apportionment of Organic Aerosol using 22 Year-long ACSM/AMS Datasets. *Environment International*, **2022**, 107325	12.9	1
40	Response of atmospheric composition to COVID-19 lockdown measures during spring in the Paris region (France). *Atmospheric Chemistry and Physics*, **2021**, 21, 17167-17183	6.8	4
39	Disparities in particulate matter (PM₁₀) origins and oxidative potential at a city scale (Grenoble, France) – Part 1: Source apportionment at three neighbouring sites. *Atmospheric Chemistry and Physics*, **2021**, 21, 5415-5437	6.8	8
38	Simultaneous Roadside and Urban Background Measurements of Submicron Aerosol Number Concentration and Size Distribution (in the Range 20–800 nm), along with Chemical Composition in Strasbourg, France. *Atmosphere*, **2021**, 12, 71	2.7	4
37	PM10 Chemical Profile during North African Dust Episodes over French West Indies. *Atmosphere*, **2021**, 12, 277	2.7	
36	Overview of the French Operational Network for In Situ Observation of PM Chemical Composition and Sources in Urban Environments (CARA Program). *Atmosphere*, **2021**, 12, 207	2.7	8
35	Source apportionment of atmospheric PM₁₀ oxidative potential: synthesis of 15 year-round urban datasets in France. *Atmospheric Chemistry and Physics*, **2021**, 21, 11353-11378	6.8	4
34	Emission factors and chemical characterization of particulate emissions from garden green waste burning. *Science of the Total Environment*, **2021**, 798, 149367	10.2	1
33	Ammonia and PM2.5 Air Pollution in Paris during the 2020 COVID Lockdown. *Atmosphere*, **2021**, 12, 160	2.7	14
32	Long-range and local air pollution: what can we learn from chemical speciation of particulate matter at paired sites?. *Atmospheric Chemistry and Physics*, **2020**, 20, 409-429	6.8	10
31	High Resolution Chemistry Transport Modeling with the On-Line CHIMERE-WRF Model over the French Alps—Analysis of a Feedback of Surface Particulate Matter Concentrations on Mountain Meteorology. *Atmosphere*, **2020**, 11, 565	2.7	9
30	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. *Atmospheric Measurement Techniques*, **2020**, 13, 4353-4392	4	32
29	Substantial brown carbon emissions from wintertime residential wood burning over France. *Science of the Total Environment*, **2020**, 743, 140752	10.2	20
28	Sources of particulate-matter air pollution and its oxidative potential in Europe. *Nature*, **2020**, 587, 414-419	50.4	128
27	Variability of the Atmospheric PM Microbiome in Three Climatic Regions of France. *Frontiers in Microbiology*, **2020**, 11, 576750	5.7	4

26	Arabitol, mannitol, and glucose as tracers of primary biogenic organic aerosol: the influence of environmental factors on ambient air concentrations and spatial distribution over France. *Atmospheric Chemistry and Physics*, **2019**, 19, 11013-11030	6.8	18
25	Polyols and glucose particulate species as tracers of primary biogenic organic aerosols at 28 French sites. *Atmospheric Chemistry and Physics*, **2019**, 19, 3357-3374	6.8	33
24	Comparison of PM10 Sources Profiles at 15 French Sites Using a Harmonized Constrained Positive Matrix Factorization Approach. *Atmosphere*, **2019**, 10, 310	2.7	23
23	The second ACTRIS inter-comparison (2016) for Aerosol Chemical Speciation Monitors (ACSM): Calibration protocols and instrument performance evaluations. *Aerosol Science and Technology*, **2019**, 53, 830-842	3.4	25
22	Sources and Geographical Origins of PM10 in Metz (France) Using Oxalate as a Marker of Secondary Organic Aerosols by Positive Matrix Factorization Analysis. *Atmosphere*, **2019**, 10, 370	2.7	9
21	Six-year source apportionment of submicron organic aerosols from near-continuous highly time-resolved measurements at SIRTA (Paris area, France). *Atmospheric Chemistry and Physics*, **2019**, 19, 14755-14776	6.8	29
20	Sources of organic aerosols in Europe: a modeling study using CAMx with modified volatility basis set scheme. *Atmospheric Chemistry and Physics*, **2019**, 19, 15247-15270	6.8	16
19	Seasonal Variations and Chemical Predictors of Oxidative Potential (OP) of Particulate Matter (PM), for Seven Urban French Sites. *Atmosphere*, **2019**, 10, 698	2.7	19
18	Large-scale particulate air pollution and chemical fingerprint of volcanic sulfate aerosols from the 2014–2015 Holuhraun flood lava eruption of Bárðarbunga volcano (Iceland). *Atmospheric Chemistry and Physics*, **2019**, 19, 14253-14287	6.8	9
17	Speciation of organic fraction does matter for source apportionment. Part 1: A one-year campaign in Grenoble (France). *Science of the Total Environment*, **2018**, 624, 1598-1611	10.2	35
16	A´European aerosol phenomenology – 6: scattering properties of atmospheric aerosol particles from 28´ACTRIS sites. *Atmospheric Chemistry and Physics*, **2018**, 18, 7877-7911	6.8	46
15	Comparison of Measurement-Based Methodologies to Apportion Secondary Organic Carbon (SOC) in PM2.5: A Review of Recent Studies. *Atmosphere*, **2018**, 9, 452	2.7	26
14	Evidence of major secondary organic aerosol contribution to lensing effect black carbon absorption enhancement. *Npj Climate and Atmospheric Science*, **2018**, 1,	8	37
13	Limited formation of isoprene epoxydiols-derived secondary organic aerosol under NOx-rich environments in Eastern China. *Geophysical Research Letters*, **2017**, 44, 2035	4.9	31
12	Sources and atmospheric chemistry of oxy- and nitro-PAHs in the ambient air of Grenoble (France). *Atmospheric Environment*, **2017**, 161, 144-154	5.3	40
11	The filter-loading effect by ambient aerosols in filter absorption photometers depends on the coating of the sampled particles. *Atmospheric Measurement Techniques*, **2017**, 10, 1043-1059	4	43
10	Field characterization of the PM_{2.5} Aerosol Chemical Speciation Monitor: insights into the composition, sources, and processes of fine´particles in eastern China. *Atmospheric Chemistry and Physics*, **2017**, 17, 14501-14517	6.8	32
9	Fast oxidation processes from emission to ambient air introduction of aerosol emitted by residential log wood stoves. *Atmospheric Environment*, **2016**, 143, 15-26	5.3	22

8	Impact of a Saharan dust outbreak on PM10 ground levels in Southeastern France. *Climatologie*, **2015**, 12, 65-82	0.1	1
7	High Contribution of Sea Salt Aerosols on Atmospheric Particles Measured at an Urban Tropical Location in Reunion Island. *Journal of Environmental Protection*, **2013**, 04, 828-842	0.6	4
6	Assessing in near real time the impact of the April 2010 Eyjafjallajökull ash plume on air quality. *Atmospheric Environment*, **2011**, 45, 1217-1221	5.3	54
5	Evidence for a significant contribution of wood burning aerosols to PM2.5 during the winter season in Paris, France. *Atmospheric Environment*, **2009**, 43, 3640-3644	5.3	128
4	Size-partitioning of an urban aerosol to identify particle determinants involved in the proinflammatory response induced in airway epithelial cells. *Particle and Fibre Toxicology*, **2009**, 6, 10	8.4	73
3	Seasonality of major aerosol species and their transformations in Cairo megacity. *Atmospheric Environment*, **2008**, 42, 1503-1516	5.3	65
2	Characterization and contribution to PM2.5 of semi-volatile aerosols in Paris (France). *Atmospheric Environment*, **2007**, 41, 7969-7976	5.3	46
1	Meteorology-driven variability of air pollution (PM1) revealed with explainable machine learning		5