

# Sylvain Mailler

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,544  
citations

471061

17  
h-index

329751

37  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prior history of Mistral and Tramontane winds modulates heavy precipitation events in southern France. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 24064.	0.8	21
2	Pathways for wintertime deposition of anthropogenic light-absorbing particles on the Central Andes cryosphere. <i>Environmental Pollution</i> , 2021, 272, 115901.	3.7	8
3	The 2017 Mega-Fires in Central Chile: Impacts on Regional Atmospheric Composition and Meteorology Assessed from Satellite Data and Chemistry-Transport Modeling. <i>Atmosphere</i> , 2021, 12, 344.	1.0	9
4	Seasonal variation in atmospheric pollutants transport in central Chile: dynamics and consequences. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6431-6454.	1.9	7
5	Using the Despr�s and Lagouti�re (1999) antidiffusive transport scheme: a promising and novel method against excessive vertical diffusion in chemistry-transport models. <i>Geoscientific Model Development</i> , 2021, 14, 2221-2233.	1.3	4
6	Quantitative Retrieval of Volcanic Sulphate Aerosols from IASI Observations. <i>Remote Sensing</i> , 2021, 13, 1808.	1.8	10
7	The CHIMERE v2020r1 online chemistry-transport model. <i>Geoscientific Model Development</i> , 2021, 14, 6781-6811.	1.3	27
8	Impact of Lightning NOx Emissions on Atmospheric Composition and Meteorology in Africa and Europe. <i>Atmosphere</i> , 2020, 11, 1128.	1.0	3
9	Soccer games and record-breaking PM <sub>2.5</sub> pollution events in Santiago, Chile. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4681-4694.	1.9	16
10	How warmer and drier will the Mediterranean region be at the end of the twenty-first century?. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	31
11	Impact of lockdown measures to combat Covid-19 on air quality over western Europe. <i>Science of the Total Environment</i> , 2020, 741, 140426.	3.9	263
12	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. <i>Atmosphere</i> , 2020, 11, 565.	1.0	17
13	Aerosol indirect effects on the temperature–precipitation scaling. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6207-6223.	1.9	8
14	APIFLAME v2.0 biomass burning emissions model: impact of refined input parameters on atmospheric concentration in Portugal in summer 2016. <i>Geoscientific Model Development</i> , 2020, 13, 2981-3009.	1.3	12
15	New strategies for vertical transport in chemistry transport models: application to the case of the Mount Etna eruption on 18 March 2012 with CHIMERE v2017r4. <i>Geoscientific Model Development</i> , 2020, 13, 5707-5723.	1.3	11
16	Analysis of exposure to fine particulate matter using passive data from public transport. <i>Atmospheric Environment</i> , 2019, 215, 116878.	1.9	9
17	What Can We Expect from Data Assimilation for Air Quality Forecast? Part II: Analysis with a Semi-Real Case. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1433-1448.	0.5	2
18	Implementation of Aerosol-Cloud Interaction within WRF-CHIMERE Online Coupled Model: Evaluation and Investigation of the Indirect Radiative Effect from Anthropogenic Emission Reduction on the Benelux Union. <i>Atmosphere</i> , 2019, 10, 20.	1.0	19

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19	Diurnal cycle of coastal anthropogenic pollutant transport over southern West Africa during the DACCIWA campaign. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 473-497.	1.9	24
20	Interactions of atmospheric gases and aerosols with the monsoon dynamics over the Sudano-Guinean region during AMMA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 445-465.	1.9	10
21	Lagged effects of the Mistral wind on heavy precipitation through ocean-atmosphere coupling in the region of Valencia (Spain). <i>Climate Dynamics</i> , 2018, 51, 969-983.	1.7	8
22	Aerosol indirect effects on summer precipitation in a regional climate model for the Euro-Mediterranean region. <i>Annales Geophysicae</i> , 2018, 36, 321-335.	0.6	8
23	Spatial and temporal variability of wind energy resource and production over the North Western Mediterranean Sea: Sensitivity to air-sea interactions. <i>Renewable Energy</i> , 2017, 101, 680-689.	4.3	7
24	An Evaluation of the CHIMERE Chemistry Transport Model to Simulate Dust Outbreaks across the Northern Hemisphere in March 2014. <i>Atmosphere</i> , 2017, 8, 251.	1.0	11
25	CHIMERE-2017: from urban to hemispheric chemistry-transport modeling. <i>Geoscientific Model Development</i> , 2017, 10, 2397-2423.	1.3	168
26	An alternative way to evaluate chemistry-transport model variability. <i>Geoscientific Model Development</i> , 2017, 10, 1199-1208.	1.3	1
27	Aerosol-radiation interaction modelling using online coupling between the WRF 3.7.1 meteorological model and the CHIMERE 2016 chemistry-transport model, through the OASIS3-MCT coupler. <i>Geoscientific Model Development</i> , 2017, 10, 927-944.	1.3	39
28	On the radiative impact of aerosols on photolysis rates: comparison of simulations and observations in the Lampedusa island during the ChArMEx/ADRIMED campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1219-1244.	1.9	34
29	Observations and regional modeling of aerosol optical properties, speciation and size distribution over Northern Africa and western Europe. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12961-12982.	1.9	15
30	Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 455-504.	1.9	110
31	Influence of submonthly air-sea coupling on heavy precipitation events in the Western Mediterranean basin. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 453-471.	1.0	21
32	Cyclone contribution to the Mediterranean Sea water budget. <i>Climate Dynamics</i> , 2016, 46, 913-927.	1.7	8
33	Impact of Subgrid-Scale Orography on Equatorial Angular Momentum Budget and the Cold Surges in a General Circulation Model. <i>Monthly Weather Review</i> , 2015, 143, 4443-4458.	0.5	1
34	Aerosol forecast over the Mediterranean area during July 2013 (ADRIMED/CHARMEX). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7897-7911.	1.9	18
35	Source contributions to 2012 summertime aerosols in the Euro-Mediterranean region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8013-8036.	1.9	42
36	Ozone and aerosol tropospheric concentrations variability analyzed using the ADRIMED measurements and the WRF and CHIMERE models. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6159-6182.	1.9	27

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37	Sensitivity of an intense rain event between atmosphere-only and atmosphere-ocean regional coupled models: 19 September 1996. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 258-271.	1.0	29
38	Predictability of the Meteorological Conditions Favourable to Radiative Fog Formation During the 2011 ParisFog Campaign. Boundary-Layer Meteorology, 2014, 150, 277-297.	1.2	31
39	Investigation on the offshore wind energy potential over the north western Mediterranean sea in a regional climate system model. , 2014, , .		3
40	CHIMERE 2013: a model for regional atmospheric composition modelling. Geoscientific Model Development, 2013, 6, 981-1028.	1.3	392
41	Impact of the vertical emission profiles on background gas-phase pollution simulated from the EMEP emissions over Europe. Atmospheric Chemistry and Physics, 2013, 13, 5987-5998.	1.9	28
42	Equatorial Mountain Torques and Cold Surge Preconditioning. Journals of the Atmospheric Sciences, 2010, 67, 2101-2120.	0.6	5
43	Dynamical influence of the Tibetan Plateau on the winter monsoon over southeastern Asia. Geophysical Research Letters, 2009, 36, .	1.5	7