Sylvain Mailler

List of Publications by Year
in descending order

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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	CHIMERE 2013: a model for regional atmospheric composition modelling. Geoscientific Model Development, 2013, 6, 981-1028.	1.3	392
2	Impact of lockdown measures to combat Covid-19 on air quality over western Europe. Science of the Total Environment, 2020, 741, 140426.	3.9	263
3	CHIMERE-2017: from urban to hemispheric chemistry-transport modeling. Geoscientific Model Development, 2017, 10, 2397-2423.	1.3	168
4	Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign. Atmospheric Chemistry and Physics, 2016, 16, 455-504.	1.9	110
5	Source contributions to 2012 summertime aerosols in the Euro-Mediterranean region. Atmospheric Chemistry and Physics, 2015, 15, 8013-8036.	1.9	42
6	Aerosolâ€“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. Geoscientific Model Development, 2017, 10, 927-944.	1.3	39
7	On the radiative impact of aerosols on photolysis rates: comparison of simulations and observations in the Lampedusa island during the ChArMEx/ADRIMED campaign. Atmospheric Chemistry and Physics, 2016, 16, 1219-1244.	1.9	34
8	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
9	How warmer and drier will the Mediterranean region be at the end of the twenty-first century?. Regional Environmental Change, 2020, 20, 1.	1.4	31
10	Sensitivity of an intense rain event between atmosphereâ€only and atmosphereâ€“ocean regional coupled models: 19 September 1996. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 258-271.	1.0	29
11	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
12	Ozone and aerosol tropospheric concentrations variability analyzed using the ADRIMED measurements and the WRF and CHIMERE models. Atmospheric Chemistry and Physics, 2015, 15, 6159-6182.	1.9	27
13	The CHIMERE v2020r1 online chemistry-transport model. Geoscientific Model Development, 2021, 14, 6781-6811.	1.3	27
14	Diurnal cycle of coastal anthropogenic pollutant transport over southern West Africa during the DACCIWA campaign. Atmospheric Chemistry and Physics, 2019, 19, 473-497.	1.9	24
15	Prior history of Mistral and Tramontane winds modulates heavy precipitation events in southern France. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 24064.	0.8	21
16	Influence of submonthly airâ€“sea coupling on heavy precipitation events in the Western Mediterranean basin. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 453-471.	1.0	21
17	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. Atmosphere, 2019, 10, 20.	1.0	19
18	Aerosol forecast over the Mediterranean area during July 2013 (ADRIMED/CHARMEX). Atmospheric Chemistry and Physics, 2015, 15, 7897-7911.	1.9	18

#	Article	IF	Citations
19	High Resolution Chemistry Transport Modeling with the On-Line CHIMERE-WRF Model over the French Alpsâ€"Analysis of a Feedback of Surface Particulate Matter Concentrations on Mountain Meteorology. Atmosphere, 2020, 11, 565.	1.0	17
20	Soccer games and record-breaking PM_{2.5} pollution events in Santiago, Chile. Atmospheric Chemistry and Physics, 2020, 20, 4681-4694.	1.9	16
21	Observations and regional modeling of aerosol optical properties, speciation and size distribution over Northern Africa and western Europe. Atmospheric Chemistry and Physics, 2016, 16, 12961-12982.	1.9	15
22	APIFLAME v2.0 biomass burning emissions model: impact of refined input parameters on atmospheric concentration in Portugal in summer 2016. Geoscientific Model Development, 2020, 13, 2981-3009.	1.3	12
23	An Evaluation of the CHIMERE Chemistry Transport Model to Simulate Dust Outbreaks across the Northern Hemisphere in March 2014. Atmosphere, 2017, 8, 251.	1.0	11
24	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. Geoscientific Model Development, 2020, 13, 5707-5723.	1.3	11
25	Interactions of atmospheric gases and aerosols with the monsoon dynamics over the Sudano-Guinean region during AMMA. Atmospheric Chemistry and Physics, 2018, 18, 445-465.	1.9	10
26	Quantitative Retrieval of Volcanic Sulphate Aerosols from IASI Observations. Remote Sensing, 2021, 13, 1808.	1.8	10
27	Analysis of exposure to fine particulate matter using passive data from public transport. Atmospheric Environment, 2019, 215, 116878.	1.9	9
28	The 2017 Mega-Fires in Central Chile: Impacts on Regional Atmospheric Composition and Meteorology Assessed from Satellite Data and Chemistry-Transport Modeling. Atmosphere, 2021, 12, 344.	1.0	9
29	Cyclone contribution to the Mediterranean Sea water budget. Climate Dynamics, 2016, 46, 913-927.	1.7	8
30	Lagged effects of the Mistral wind on heavy precipitation through ocean-atmosphere coupling in the region of Valencia (Spain). Climate Dynamics, 2018, 51, 969-983.	1.7	8
31	Aerosol indirect effects on summer precipitation in a regional climate model for the Euro-Mediterranean region. Annales Geophysicae, 2018, 36, 321-335.	0.6	8
32	Aerosol indirect effects on the temperatureâ€"precipitation scaling. Atmospheric Chemistry and Physics, 2020, 20, 6207-6223.	1.9	8
33	Pathways for wintertime deposition of anthropogenic light-absorbing particles on the Central Andes cryosphere. Environmental Pollution, 2021, 272, 115901.	3.7	8
34	Dynamical influence of the Tibetan Plateau on the winter monsoon over southeastern Asia. Geophysical Research Letters, 2009, 36, .	1.5	7
35	Spatial and temporal variability of wind energy resource and production over the North Western Mediterranean Sea: Sensitivity to air-sea interactions. Renewable Energy, 2017, 101, 680-689.	4.3	7
36	Seasonal variation in atmospheric pollutants transport in central Chile: dynamics and consequences. Atmospheric Chemistry and Physics, 2021, 21, 6431-6454.	1.9	7

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37	Equatorial Mountain Torques and Cold Surge Preconditioning. Journals of the Atmospheric Sciences, 2010, 67, 2101-2120.	0.6	5
38	Using the DesprÃ©s and LagoutiÃ¨re (1999) antidiffusive transport scheme: a promising and novel method against excessive vertical diffusion in chemistry-transport models. Geoscientific Model Development, 2021, 14, 2221-2233.	1.3	4
39	Investigation on the offshore wind energy potential over the north western Mediterranean sea in a regional climate system model. , 2014, , .		3
40	Impact of Lightning NOx Emissions on Atmospheric Composition and Meteorology in Africa and Europe. Atmosphere, 2020, 11, 1128.	1.0	3
41	What Can We Expect from Data Assimilation for Air Quality Forecast? Part II: Analysis with a Semi-Real Case. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1433-1448.	0.5	2
42	Impact of Subgrid-Scale Orography on Equatorial Angular Momentum Budget and the Cold Surges in a General Circulation Model. Monthly Weather Review, 2015, 143, 4443-4458.	0.5	1
43	An alternative way to evaluate chemistry-transport model variability. Geoscientific Model Development, 2017, 10, 1199-1208.	1.3	1