

Charles Chemel

List of Publications by Year in descending order

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29
papers

1,455
citations

516710

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477307

29
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30
all docs

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docs citations

30
times ranked

1741
citing authors

#	ARTICLE	IF	CITATIONS
1	Drivers of severe air pollution events in a deep valley during wintertime: A case study from the Arve river valley, France. <i>Atmospheric Environment</i> , 2021, 247, 118030.	4.1	16
2	Numerical Modelling of Neutral Boundary-layer Flow Across a Forested Ridge. <i>Boundary-Layer Meteorology</i> , 2021, 180, 457-476.	2.3	1
3	Design and field campaign validation of a multi-rotor unmanned aerial vehicle and optical particle counter. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6613-6630.	3.1	13
4	Dispersion of Tracers in the Stable Atmosphere of a Valley Opening onto a Plain. <i>Boundary-Layer Meteorology</i> , 2019, 172, 291-315.	2.3	7
5	Impact of Along-Valley Orographic Variations on the Dispersion of Passive Tracers in a Stable Atmosphere. <i>Atmosphere</i> , 2019, 10, 225.	2.3	8
6	Energetics of Deep Alpine Valleys in Pooling and Draining Configurations. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2105-2124.	1.7	12
7	Insights into the deterministic skill of air quality ensembles from the analysis of AQMEII data. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15629-15652.	4.9	23
8	Interactions Between the Nighttime Valley-Wind System and a Developing Cold-Air Pool. <i>Boundary-Layer Meteorology</i> , 2016, 161, 49-72.	2.3	19
9	A risk based application of the regional model CMAQ to policy decisions. <i>Atmospheric Pollution Research</i> , 2016, 7, 207-214.	3.8	2
10	Valley heat deficit as a bulk measure of wintertime particulate air pollution in the Arve River Valley. <i>Atmospheric Environment</i> , 2016, 128, 208-215.	4.1	48
11	Sensitivity of tropical deep convection in global models: effects of horizontal resolution, surface constraints, and <scp>3D</scp> atmospheric nudging. <i>Atmospheric Science Letters</i> , 2015, 16, 148-154.	1.9	5
12	Comparative analysis of meteorological performance of coupled chemistry-meteorology models in the context of AQMEII phase 2. <i>Atmospheric Environment</i> , 2015, 115, 470-498.	4.1	85
13	Evaluation of operational on-line-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part I: Ozone. <i>Atmospheric Environment</i> , 2015, 115, 404-420.	4.1	168
14	Pollutant Dispersion in a Developing Valley Cold-Air Pool. <i>Boundary-Layer Meteorology</i> , 2015, 154, 391-408.	2.3	14
15	Analysis of meteorologyâ€“chemistry interactions during air pollution episodes using online coupled models within AQMEII phase-2. <i>Atmospheric Environment</i> , 2015, 115, 527-540.	4.1	61
16	Evaluation of operational online-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part II: Particulate matter. <i>Atmospheric Environment</i> , 2015, 115, 421-441.	4.1	133
17	Interactions Between Downslope Flows and a Developing Cold-Air Pool. <i>Boundary-Layer Meteorology</i> , 2015, 154, 57-80.	2.3	18
18	Analysis of UK and European NOx and VOC emission scenarios in the Defra model intercomparison exercise. <i>Atmospheric Environment</i> , 2014, 94, 249-257.	4.1	8

#	ARTICLE	IF	CITATIONS
19	Evolution of Cold-Air-Pooling Processes in Complex Terrain. <i>Boundary-Layer Meteorology</i> , 2014, 150, 423-447.	2.3	27
20	Characterization of Oscillatory Motions in the Stable Atmosphere of a Deep Valley. <i>Boundary-Layer Meteorology</i> , 2013, 148, 439-454.	2.3	15
21	Response of London's Urban Heat Island to a Marine Air Intrusion in an Easterly Wind Regime. <i>Boundary-Layer Meteorology</i> , 2012, 144, 65-81.	2.3	37
22	Trace gas/aerosol boundary concentrations and their impacts on continental-scale AQMEII modeling domains. <i>Atmospheric Environment</i> , 2012, 53, 38-50.	4.1	72
23	Evaluation of the meteorological forcing used for the Air Quality Model Evaluation International Initiative (AQMEII) air quality simulations. <i>Atmospheric Environment</i> , 2012, 53, 15-37.	4.1	111
24	Examination of the Community Multiscale Air Quality (CMAQ) model performance over the North American and European domains. <i>Atmospheric Environment</i> , 2012, 53, 142-155.	4.1	89
25	Model evaluation and ensemble modelling of surface-level ozone in Europe and North America in the context of AQMEII. <i>Atmospheric Environment</i> , 2012, 53, 60-74.	4.1	192
26	Operational model evaluation for particulate matter in Europe and North America in the context of AQMEII. <i>Atmospheric Environment</i> , 2012, 53, 75-92.	4.1	214
27	Turbulent mixing in a katabatic wind under stable conditions. <i>Meteorologische Zeitschrift</i> , 2010, 19, 467-480.	1.0	5
28	Quantifying the Imprint of a Severe Hector Thunderstorm during ACTIVE/SCOUT-O3 onto the Water Content in the Upper Troposphere/Lower Stratosphere. <i>Monthly Weather Review</i> , 2009, 137, 2493-2514.	1.4	49
29	Production of ozone in the Chamonix Valley (France). <i>International Journal of Environment and Pollution</i> , 2005, 24, 201.	0.2	3