

Charles Chemel

List of Publications by Year in descending order

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29
papers

1,455
citations

516710

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h-index

477307

29
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all docs

30
docs citations

30
times ranked

1741
citing authors

#	ARTICLE	IF	CITATIONS
1	Operational model evaluation for particulate matter in Europe and North America in the context of AQMEII. Atmospheric Environment, 2012, 53, 75-92.	4.1	214
2	Model evaluation and ensemble modelling of surface-level ozone in Europe and North America in the context of AQMEII. Atmospheric Environment, 2012, 53, 60-74.	4.1	192
3	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. Atmospheric Environment, 2015, 115, 404-420.	4.1	168
4	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. Atmospheric Environment, 2015, 115, 421-441.	4.1	133
5	Evaluation of the meteorological forcing used for the Air Quality Model Evaluation International Initiative (AQMEII) air quality simulations. Atmospheric Environment, 2012, 53, 15-37.	4.1	111
6	Examination of the Community Multiscale Air Quality (CMAQ) model performance over the North American and European domains. Atmospheric Environment, 2012, 53, 142-155.	4.1	89
7	Comparative analysis of meteorological performance of coupled chemistry-meteorology models in the context of AQMEII phase 2. Atmospheric Environment, 2015, 115, 470-498.	4.1	85
8	Trace gas/aerosol boundary concentrations and their impacts on continental-scale AQMEII modeling domains. Atmospheric Environment, 2012, 53, 38-50.	4.1	72
9	Analysis of meteorology-chemistry interactions during air pollution episodes using online coupled models within AQMEII phase-2. Atmospheric Environment, 2015, 115, 527-540.	4.1	61
10	Quantifying the Imprint of a Severe Hector Thunderstorm during ACTIVE/SCOUT-O3 onto the Water Content in the Upper Troposphere/Lower Stratosphere. Monthly Weather Review, 2009, 137, 2493-2514.	1.4	49
11	Valley heat deficit as a bulk measure of wintertime particulate air pollution in the Arve River Valley. Atmospheric Environment, 2016, 128, 208-215.	4.1	48
12	Response of London's Urban Heat Island to a Marine Air Intrusion in an Easterly Wind Regime. Boundary-Layer Meteorology, 2012, 144, 65-81.	2.3	37
13	Evolution of Cold-Air-Pooling Processes in Complex Terrain. Boundary-Layer Meteorology, 2014, 150, 423-447.	2.3	27
14	Insights into the deterministic skill of air quality ensembles from the analysis of AQMEII data. Atmospheric Chemistry and Physics, 2016, 16, 15629-15652.	4.9	23
15	Interactions Between the Nighttime Valley-Wind System and a Developing Cold-Air Pool. Boundary-Layer Meteorology, 2016, 161, 49-72.	2.3	19
16	Interactions Between Downslope Flows and a Developing Cold-Air Pool. Boundary-Layer Meteorology, 2015, 154, 57-80.	2.3	18
17	Drivers of severe air pollution events in a deep valley during wintertime: A case study from the Arve river valley, France. Atmospheric Environment, 2021, 247, 118030.	4.1	16
18	Characterization of Oscillatory Motions in the Stable Atmosphere of a Deep Valley. Boundary-Layer Meteorology, 2013, 148, 439-454.	2.3	15

#	ARTICLE	IF	CITATIONS
19	Pollutant Dispersion in a Developing Valley Cold-Air Pool. <i>Boundary-Layer Meteorology</i> , 2015, 154, 391-408.	2.3	14
20	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
21	Energetics of Deep Alpine Valleys in Pooling and Draining Configurations. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2105-2124.	1.7	12
22	Analysis of UK and European NO _x and VOC emission scenarios in the Defra model intercomparison exercise. <i>Atmospheric Environment</i> , 2014, 94, 249-257.	4.1	8
23	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
24	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
25	Turbulent mixing in a katabatic wind under stable conditions. <i>Meteorologische Zeitschrift</i> , 2010, 19, 467-480.	1.0	5
26	Sensitivity of tropical deep convection in global models: effects of horizontal resolution, surface constraints, and 3D atmospheric nudging. <i>Atmospheric Science Letters</i> , 2015, 16, 148-154.	1.9	5
27	Production of ozone in the Chamonix Valley (France). <i>International Journal of Environment and Pollution</i> , 2005, 24, 201.	0.2	3
28	A risk based application of the regional model CMAQ to policy decisions. <i>Atmospheric Pollution Research</i> , 2016, 7, 207-214.	3.8	2
29	Numerical Modelling of Neutral Boundary-layer Flow Across a Forested Ridge. <i>Boundary-Layer Meteorology</i> , 2021, 180, 457-476.	2.3	1