

Sen Chiao

List of Publications by Year in descending order

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43
papers

784
citations

758635

12
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525886

27
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43
all docs

43
docs citations

43
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Some Common Ingredients for Heavy Orographic Rainfall. <i>Weather and Forecasting</i> , 2001, 16, 633-660.	0.5	235
2	Air Quality Prediction: Big Data and Machine Learning Approaches. <i>International Journal of Environmental Science and Development</i> , 2018, 9, 8-16.	0.2	109
3	Orographic Influences on Rainfall and Track Deflection Associated with the Passage of a Tropical Cyclone. <i>Monthly Weather Review</i> , 2002, 130, 2929-2950.	0.5	102
4	Extending flood forecasting lead time in a large watershed by coupling WRF QPF with a distributed hydrological model. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1279-1294.	1.9	59
5	Numerical Modeling of an Orographically Enhanced Precipitation Event Associated with Tropical Storm Rachel over Taiwan. <i>Weather and Forecasting</i> , 2003, 18, 325-344.	0.5	38
6	Data-Driven Wildfire Risk Prediction in Northern California. <i>Atmosphere</i> , 2021, 12, 109.	1.0	25
7	Numerical Study of the Orographic Forcing of Heavy Precipitation during MAP IOP-2B. <i>Monthly Weather Review</i> , 2004, 132, 2184-2203.	0.5	23
8	Mesoscale Structure of Trade Wind Convection over Puerto Rico: Composite Observations and Numerical Simulation. <i>Boundary-Layer Meteorology</i> , 2009, 132, 289-313.	1.2	22
9	The California Baseline Ozone Transport Study (CABOTS). <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E427-E445.	1.7	20
10	Formation Mechanisms for Convection over the Ligurian Sea during MAP IOP-8. <i>Monthly Weather Review</i> , 2005, 133, 2227-2245.	0.5	18
11	Leeside Boundary Layer Confluence and Afternoon Thunderstorms over Mayaguez, Puerto Rico. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 439-454.	0.6	13
12	A Numerical Study of the Hydrometeorological Dryline in Northwest India During the Monsoon. <i>Journal of the Meteorological Society of Japan</i> , 2007, 85A, 337-361.	0.7	13
13	Modeling studies of landfalling atmospheric rivers and orographic precipitation over northern California. <i>Meteorology and Atmospheric Physics</i> , 2015, 127, 1-16.	0.9	12
14	Numerical Investigations on the Formation of Tropical Storm Debby during NAMMA-06. <i>Weather and Forecasting</i> , 2010, 25, 866-884.	0.5	11
15	Case Studies of Tropical Cyclones and Phytoplankton Blooms over Atlantic and Pacific Regions. <i>Earth Interactions</i> , 2013, 17, 1-19.	0.7	10
16	Mesocirculation Associated with Summer Convection over the Central Antilles. <i>Earth Interactions</i> , 2011, 15, 1-19.	0.7	6
17	Improving High-Resolution Model Forecasts of Downslope Winds in the Las Vegas Valley. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 1324-1340.	0.6	6
18	A down-valley low-level jet event during T-REX 2006. <i>Meteorology and Atmospheric Physics</i> , 2013, 122, 75-90.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Terrain Trapped Airflows and Precipitation Variability during an Atmospheric River Event. Journal of Hydrometeorology, 2020, 21, 355-375.	0.7	6
20	Numerical Investigations of Atmospheric Rivers and the Rain Shadow over the Santa Clara Valley. Atmosphere, 2019, 10, 114.	1.0	5
21	Climate Variability of Atmospheric Rivers and Droughts over the West Coast of the United States from 2006 to 2019. Atmosphere, 2021, 12, 201.	1.0	5
22	Approximation of most penetrating particle size for fibrous filters considering Cunningham slip correction factor. Environmental Engineering Research, 2020, 25, 439-445.	1.5	5
23	The footprints of Saharan air layer and lightning on the formation of tropical depressions over the eastern Atlantic Ocean. Meteorology and Atmospheric Physics, 2015, 127, 17-32.	0.9	4
24	Hurricane Fred (2015): Cape Verde's First Hurricane in Modern Times: Observations, Impacts, and Lessons Learned. Bulletin of the American Meteorological Society, 2017, 98, 2603-2618.	1.7	4
25	The Intensification of Hurricane Maria 2017 in the Antilles. Atmosphere, 2019, 10, 590.	1.0	4
26	Representation of Ethiopian Wet Spells in Global and Nested Models. Advances in Meteorology, 2014, 2014, 1-12.	0.6	3
27	Surface mesovortices in relation to the urban heat island effect over the Saint Louis metropolitan area. Urban Climate, 2020, 31, 100580.	2.4	3
28	Understanding the Role of Mean and Eddy Momentum Transport in the Rapid Intensification of Hurricane Irma (2017) and Hurricane Michael (2018). Atmosphere, 2021, 12, 492.	1.0	3
29	Numerical Investigations of Convective Initiation in Barbados. Advances in Meteorology, 2013, 2013, 1-10.	0.6	2
30	On Building a Big Data Analysis System for California Drought. , 2017, , .		2
31	Developing Spatially Accurate Rainfall Predictions for the San Francisco Bay Area through Case Studies of Atmospheric River and other Synoptic Events. Atmosphere, 2019, 10, 541.	1.0	2
32	A Case Study of Stratospheric Ozone Transport to the Northern San Francisco Bay Area and Sacramento Valley during CABOTS 2016. Journal of Applied Meteorology and Climatology, 2019, 58, 2675-2697.	0.6	2
33	Topography and Tropical Cyclone Structure Influence on Eyewall Evolution in Typhoon Sinlaku (2008). Terrestrial, Atmospheric and Oceanic Sciences, 2015, 26, 571.	0.3	2
34	Modeling studies of impacts from the Guinea Highlands in relation to tropical cyclogenesis along the West African coast. Meteorology and Atmospheric Physics, 2012, 115, 57-72.	0.9	1
35	Comparison of Simulations of Updraft Mass Fluxes and Their Response to Increasing Aerosol Concentration between a Bin Scheme and a Bulk Scheme in a Deep-Convective Cloud System. Advances in Meteorology, 2019, 2019, 1-29.	0.6	1
36	An Observational Study of Aerosols and Tropical Cyclones over the Eastern Atlantic Ocean Basin for Recent Hurricane Seasons. Atmosphere, 2021, 12, 1036.	1.0	1

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37	Ozone Transport to the San Joaquin Valley: Baseline Observations from CABOTS. Bulletin of the American Meteorological Society, 2020, 101, 385-388.	1.7	1
38	The influences of post-tropical reintensification and dissipation on North Atlantic shipping routes. Meteorological Applications, 2014, 21, 755-759.	0.9	0
39	Modeling studies on the formation of Hurricane Helene: the impact of GPS dropwindsondes from the NAMMA 2006 field campaign. Meteorology and Atmospheric Physics, 2016, 128, 733-750.	0.9	0
40	Asian Long-Range Transport in Relation to Atmospheric Rivers in Northern California. Atmosphere, 2019, 10, 313.	1.0	0
41	Southern Caribbean Hurricane Case Study: Observations and WRF Simulation. International Journal of Marine Science, 0, , .	0.0	0
42	Assimilation of GPS Radio Occultation Data for Tropical Cyclogenesis: A Case Study in the Eastern Atlantic. The Open Atmospheric Science Journal, 2018, 12, 33-47.	0.5	0
43	Comparisons of upper air ozone at a coastal and urban site and the impacts of non-controllable ozone sources. Atmospheric Environment: X, 2020, 7, 100085.	0.8	0