# Sen Chiao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1013315/publications.pdf

Version: 2024-02-01

| | | 759233 | 526287 |
|---|---|---|---|
| 43 | 784 | 12 | 27 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 43 | 43 | 43 | 809 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Some Common Ingredients for Heavy Orographic Rainfall. Weather and Forecasting, 2001, 16, 633-660. | 1.4 | 235 |
| 2 | Air Quality Prediction: Big Data and Machine Learning Approaches. International Journal of Environmental Science and Development, 2018, 9, 8-16. | 0.6 | 109 |
| 3 | Orographic Influences on Rainfall and Track Deflection Associated with the Passage of a Tropical Cyclone. Monthly Weather Review, 2002, 130, 2929-2950. | 1.4 | 102 |
| 4 | Extending flood forecasting lead time in a large watershed by coupling WRF QPF with a distributed hydrological model. Hydrology and Earth System Sciences, 2017, 21, 1279-1294. | 4.9 | 59 |
| 5 | Numerical Modeling of an Orographically Enhanced Precipitation Event Associated with Tropical Storm Rachel over Taiwan. Weather and Forecasting, 2003, 18, 325-344. | 1.4 | 38 |
| 6 | Data-Driven Wildfire Risk Prediction in Northern California. Atmosphere, 2021, 12, 109. | 2.3 | 25 |
| 7 | Numerical Study of the Orographic Forcing of Heavy Precipitation during MAP IOP-2B. Monthly Weather Review, 2004, 132, 2184-2203. | 1.4 | 23 |
| 8 | Mesoscale Structure of Trade Wind Convection over Puerto Rico: Composite Observations and Numerical Simulation. Boundary-Layer Meteorology, 2009, 132, 289-313. | 2.3 | 22 |
| 9 | The California Baseline Ozone Transport Study (CABOTS). Bulletin of the American Meteorological Society, 2020, 101, E427-E445. | 3.3 | 20 |
| 10 | Formation Mechanisms for Convection over the Ligurian Sea during MAP IOP-8. Monthly Weather Review, 2005, 133, 2227-2245. | 1.4 | 18 |
| 11 | Leeside Boundary Layer Confluence and Afternoon Thunderstorms over Mayaguez, Puerto Rico. Journal of Applied Meteorology and Climatology, 2013, 52, 439-454. | 1.5 | 13 |
| 12 | A Numerical Study of the Hydrometeorological Dryline in Northwest India During the Monsoon. Journal of the Meteorological Society of Japan, 2007, 85A, 337-361. | 1.8 | 13 |
| 13 | Modeling studies of landfalling atmospheric rivers and orographic precipitation over northern California. Meteorology and Atmospheric Physics, 2015, 127, 1-16. | 2.0 | 12 |
| 14 | Numerical Investigations on the Formation of Tropical Storm Debby during NAMMA-06. Weather and Forecasting, 2010, 25, 866-884. | 1.4 | 11 |
| 15 | Case Studies of Tropical Cyclones and Phytoplankton Blooms over Atlantic and Pacific Regions. Earth Interactions, 2013, 17, 1-19. | 1.5 | 10 |
| 16 | Mesocirculation Associated with Summer Convection over the Central Antilles. Earth Interactions, 2011, 15, 1-19. | 1.5 | 6 |
| 17 | Improving High-Resolution Model Forecasts of Downslope Winds in the Las Vegas Valley. Journal of Applied Meteorology and Climatology, 2011, 50, 1324-1340. | 1.5 | 6 |
| 18 | A down-valley low-level jet event during T-REX 2006. Meteorology and Atmospheric Physics, 2013, 122, 75-90. | 2.0 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Terrain Trapped Airflows and Precipitation Variability during an Atmospheric River Event. Journal of Hydrometeorology, 2020, 21, 355-375. | 1.9 | 6 |
| 20 | Numerical Investigations of Atmospheric Rivers and the Rain Shadow over the Santa Clara Valley. Atmosphere, 2019, 10, 114. | 2.3 | 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. | 2.3 | 5 |
| 22 | Approximation of most penetrating particle size for fibrous filters considering Cunningham slip correction factor. Environmental Engineering Research, 2020, 25, 439-445. | 2.5 | 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. | 2.0 | 4 |
| 24 | Hurricane Fred (2015): Cape Verdeâ€™s First Hurricane in Modern Times: Observations, Impacts, and Lessons Learned. Bulletin of the American Meteorological Society, 2017, 98, 2603-2618. | 3.3 | 4 |
| 25 | The Intensification of Hurricane Maria 2017 in the Antilles. Atmosphere, 2019, 10, 590. | 2.3 | 4 |
| 26 | Representation of Ethiopian Wet Spells in Global and Nested Models. Advances in Meteorology, 2014, 2014, 1-12. | 1.6 | 3 |
| 27 | Surface mesovortices in relation to the urban heat island effect over the Saint Louis metropolitan area. Urban Climate, 2020, 31, 100580. | 5.7 | 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. | 2.3 | 3 |
| 29 | Numerical Investigations of Convective Initiation in Barbados. Advances in Meteorology, 2013, 2013, 1-10. | 1.6 | 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. | 2.3 | 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. | 1.5 | 2 |
| 33 | Topography and Tropical Cyclone Structure Influence on Eyewall Evolution in Typhoon Sinlaku (2008). Terrestrial, Atmospheric and Oceanic Sciences, 2015, 26, 571. | 0.6 | 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. | 2.0 | 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. | 1.6 | 1 |
| 36 | An Observational Study of Aerosols and Tropical Cyclones over the Eastern Atlantic Ocean Basin for Recent Hurricane Seasons. Atmosphere, 2021, 12, 1036. | 2.3 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Ozone Transport to the San Joaquin Valley: Baseline Observations from CABOTS. Bulletin of the American Meteorological Society, 2020, 101, 385-388. | 3.3 | 1 |
| 38 | The influences of post-tropical reintensification and dissipation on North Atlantic shipping routes. Meteorological Applications, 2014, 21, 755-759. | 2.1 | 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. | 2.0 | 0 |
| 40 | Asian Long-Range Transport in Relation to Atmospheric Rivers in Northern California. Atmosphere, 2019, 10, 313. | 2.3 | 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. | 1.4 | 0 |