Robert J Trapp

List of Publications by Year
in descending order

30 papers	1,668 citations	471509 17 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	1183 citing authors

#	Article	IF	Citations
1	Robust increases in severe thunderstorm environments in response to greenhouse forcing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16361-16366.	7.1	278
2	Changes in severe thunderstorm environment frequency during the 21st century caused by anthropogenically enhanced global radiative forcing. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19719-19723.	7.1	277
3	Tornadoes from Squall Lines and Bow Echoes. Part I: Climatological Distribution. Weather and Forecasting, 2005, 20, 23-34.	1.4	149
4	Low-Level Mesovortices within Squall Lines and Bow Echoes. Part I: Overview and Dependence on Environmental Shear. Monthly Weather Review, 2003, 131, 2779-2803.	1.4	128
5	Transient response of severe thunderstorm forcing to elevated greenhouse gas concentrations. Geophysical Research Letters, 2009, 36, .	4.0	111
6	The Impact of Climate Change on Hazardous Convective Weather in the United States: Insight from High-Resolution Dynamical Downscaling. Journal of Climate, 2017, 30, 10081-10100.	3.2	68
7	The Realization of Extreme Tornadic Storm Events under Future Anthropogenic Climate Change. Journal of Climate, 2016, 29, 5251-5265.	3.2	64
8	The effects of climate change on hailstorms. Nature Reviews Earth & Environment, 2021, 2, 213-226.	29.7	57
9	The Regulation of Tornado Intensity by Updraft Width. Journals of the Atmospheric Sciences, 2017, 74, 4199-4211.	1.7	53
10	Convective Storm Life Cycle and Environments near the Sierras de CÃ³rdoba, Argentina. Monthly Weather Review, 2018, 146, 2541-2557.	1.4	52
11	A Storm Safari in Subtropical South America: Proyecto RELAMPAGO. Bulletin of the American Meteorological Society, 2021, 102, E1621-E1644.	3.3	42
12	The Dynamical Coupling of Convective Updrafts, Downdrafts, and Cold Pools in Simulated Supercell Thunderstorms. Journal of Geophysical Research D: Atmospheres, 2019, 124, 664-683.	3.3	40
13	Telescoping, multimodel approaches to evaluate extreme convective weather under future climates. Journal of Geophysical Research, 2007, 112, .	3.3	38
14	Future Changes in Hail Occurrence in the United States Determined through Convection-Permitting Dynamical Downscaling. Journal of Climate, 2019, 32, 5493-5509.	3.2	38
15	A Case Study of Terrain Influences on Upscale Convective Growth of a Supercell. Monthly Weather Review, 2019, 147, 4305-4324.	1.4	35
16	Comparison of Mobile-Radar Measurements of Tornado Intensity with Corresponding WSR-88D Measurements. Weather and Forecasting, 2013, 28, 418-426.	1.4	25
17	Using Overshooting Top Area to Discriminate Potential for Large, Intense Tornadoes. Geophysical Research Letters, 2019, 46, 12520-12526.	4.0	22
18	Multiple-Platform and Multiple-Doppler Radar Observations of a Supercell Thunderstorm in South America during RELAMPAGO. Monthly Weather Review, 2020, 148, 3225-3241.	1.4	18

#	Article	IF	Citations
19	The Influence of Terrain on the Convective Environment and Associated Convective Morphology from an Idealized Modeling Perspective. Journals of the Atmospheric Sciences, 2020, 77, 3929-3949.	1.7	18
20	On the Significance of Multiple Consecutive Days of Tornado Activity. Monthly Weather Review, 2014, 142, 1452-1459.	1.4	17
21	Exploring a possible connection between U.S. tornado activity and Arctic sea ice. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	16
22	Observational Study of the Thermodynamics and Morphological Characteristics of a Midlatitude Continental Cold Pool Event. Monthly Weather Review, 2020, 148, 719-737.	1.4	13
23	Convectively Induced Stabilizations and Subsequent Recovery with Supercell Thunderstorms during the Mesoscale Predictability Experiment (MPEX). Monthly Weather Review, 2017, 145, 1739-1754.	1.4	12
24	Hybrid Prediction of Weekly Tornado Activity Out to Week 3: Utilizing Weather Regimes. Geophysical Research Letters, 2020, 47, e2020GL087253.	4.0	12
25	Reply to â€œComments on â€˜The Regulation of Tornado Intensity by Updraft Widthâ€™â€• Journals of the Atmospheric Sciences, 2018, 75, 4057-4061.	1.7	10
26	Observed Relationship between Tornado Intensity and Pretornadic Mesocyclone Characteristics. Weather and Forecasting, 2020, 35, 1243-1261.	1.4	10
27	A radarâ€based study of severe hail outbreaks over the contiguous United States for 2000â€“2011. International Journal of Climatology, 2019, 39, 278-291.	3.5	9
28	Regional Characterization of Tornado Activity. Journal of Applied Meteorology and Climatology, 2013, 52, 654-659.	1.5	8
29	Alternative implementations of the â€œpseudoâ€globalâ€warmingâ€• methodology for eventâ€based simulations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035017.	3.3	4
30	Exploring Inland Tropical Cyclone Rainfall and Tornadoes under Future Climate Conditions through a Case Study of Hurricane Ivan. Journal of Applied Meteorology and Climatology, 2021, 60, 103-118.	1.5	3