Prathap Ramamurthy

List of Publications by Year
in descending order

25 papers	776 citations	516710 16 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	919 citing authors

#	Article	IF	Citations
1	Heatwaves and urban heat islands: A comparative analysis of multiple cities. Journal of Geophysical Research D: Atmospheres, 2017, 122, 168-178.	3.3	136
2	Contribution of impervious surfaces to urban evaporation. Water Resources Research, 2014, 50, 2889-2902.	4.2	86
3	High-resolution simulation of heatwave events in New York City. Theoretical and Applied Climatology, 2017, 128, 89-102.	2.8	64
4	Impact of heatwave on a megacity: an observational analysis of New York City during July 2016. Environmental Research Letters, 2017, 12, 054011.	5.2	64
5	Toward understanding the behavior of carbon dioxide and surface energy fluxes in the urbanized semi-arid Salt Lake Valley, Utah, USA. Atmospheric Environment, 2011, 45, 73-84.	4.1	51
6	Inter-annual variability in urban heat island intensity over 10 major cities in the United States. Sustainable Cities and Society, 2016, 26, 65-75.	10.4	47
7	Influence of Subfacet Heterogeneity and Material Properties on the Urban Surface Energy Budget. Journal of Applied Meteorology and Climatology, 2014, 53, 2114-2129.	1.5	45
8	The joint influence of albedo and insulation on roof performance: An observational study. Energy and Buildings, 2015, 93, 249-258.	6.7	36
9	Urban air temperature model using GOES-16 LST and a diurnal regressive neural network algorithm. Remote Sensing of Environment, 2020, 237, 111495.	11.0	30
10	Spatiotemporal variability in building energy use in New York City. Energy, 2017, 141, 1393-1401.	8.8	22
11	The Harlem Heat Project: A Unique Mediaâ€“Community Collaboration to Study Indoor Heat Waves. Bulletin of the American Meteorological Society, 2018, 99, 2491-2506.	3.3	22
12	Estimating heat storage in urban areas using multispectral satellite data and machine learning. Remote Sensing of Environment, 2021, 252, 112125.	11.0	22
13	Thermal Structure of a Coastalâ€“Urban Boundary Layer. Boundary-Layer Meteorology, 2018, 169, 151-161.	2.3	21
14	On the correlation of water vapor and CO₂: Application to flux partitioning of evapotranspiration. Water Resources Research, 2016, 52, 9452-9469.	4.2	20
15	The joint influence of albedo and insulation on roof performance: A modeling study. Energy and Buildings, 2015, 102, 317-327.	6.7	19
16	Highâ€resolution projections of extreme heat in New York City. International Journal of Climatology, 2019, 39, 4721-4735.	3.5	17
17	Surface heat assessment for developed environments: Probabilistic urban temperature modeling. Computers, Environment and Urban Systems, 2017, 66, 53-64.	7.1	14
18	Scale-dependent response of the urban heat island to the European heatwave of 2018. Environmental Research Letters, 2021, 16, 104021.	5.2	12

#	Article	IF	Citations
19	Turbulent Transport of Carbon Dioxide over a Highly Vegetated Suburban Neighbourhood. Boundary-Layer Meteorology, 2015, 157, 461-479.	2.3	9
20	Wearable sensing techniques to understand pedestrian-level outdoor microclimate affecting heat related risk in urban parks. Solar Energy, 2022, 242, 397-412.	6.1	9
21	The Convection, Aerosol, and Synoptic-Effects in the Tropics (CAST) Experiment: Building an Understanding of Multiscale Impacts on Caribbean Weather via Field Campaigns. Bulletin of the American Meteorological Society, 2017, 98, 1593-1600.	3.3	8
22	A novel model to estimate sensible heat fluxes in urban areas using satellite-derived data. Remote Sensing of Environment, 2022, 270, 112880.	11.0	7
23	On the Assessment of a Cooling Tower Scheme for High-Resolution Numerical Weather Modeling for Urban Areas. Journal of Applied Meteorology and Climatology, 2019, 58, 1399-1415.	1.5	6
24	Impacts of Hurricane Maria on Land and Convection Modification Over Puerto Rico. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032493.	3.3	5
25	Spatiotemporal Variability of Heat Storage in Major U.S. Citiesâ€"A Satellite-Based Analysis. Remote Sensing, 2021, 13, 59.	4.0	4