

V R Kotamarthi

List of Publications by Year in descending order

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74
papers

2,508
citations

257450

24
h-index

214800

47
g-index

105
all docs

105
docs citations

105
times ranked

3450
citing authors

#	ARTICLE	IF	CITATIONS
1	Brown carbon: a significant atmospheric absorber of solar radiation?. Atmospheric Chemistry and Physics, 2013, 13, 8607-8621.	4.9	592
2	Photochemical Oxidant Processes in the Presence of Dust: An Evaluation of the Impact of Dust on Particulate Nitrate and Ozone Formation. Journal of Applied Meteorology and Climatology, 1994, 33, 813-824.	1.7	135
3	The combined and separate impacts of climate extremes on the current and future <scp>US</scp> rainfed maize and soybean production under elevated CO₂. Global Change Biology, 2017, 23, 2687-2704.	9.5	134
4	High-resolution dynamically downscaled projections of precipitation in the mid and late 21st century over North America. Earth's Future, 2015, 3, 268-288.	6.3	100
5	Modeling agriculture in the Community Land Model. Geoscientific Model Development, 2013, 6, 495-515.	3.6	94
6	Results from the Intergovernmental Panel on Climatic Change Photochemical Model Intercomparison (PhotoComp). Journal of Geophysical Research, 1997, 102, 5979-5991.	3.3	68
7	Electrokinetic dispersion in capillary electrophoresis. AIChE Journal, 1990, 36, 916-926.	3.6	66
8	Trifluoroacetic acid from degradation of HCFCs and HFCs: A three-dimensional modeling study. Journal of Geophysical Research, 1998, 103, 5747-5758.	3.3	65
9	Changes in Spatiotemporal Precipitation Patterns in Changing Climate Conditions. Journal of Climate, 2016, 29, 8355-8376.	3.2	64
10	New methodology for Ozone Depletion Potentials of short-lived compounds: n-Propyl bromide as an example. Journal of Geophysical Research, 2001, 106, 14551-14571.	3.3	61
11	On Bridging A Modeling Scale Gap: Mesoscale to Microscale Coupling for Wind Energy. Bulletin of the American Meteorological Society, 2019, 100, 2533-2550.	3.3	53
12	The long range transport of pollutants in the Pacific Rim region. Atmospheric Environment Part A General Topics, 1990, 24, 1521-1534.	1.3	49
13	Air-surface exchange of peroxyacetyl nitrate at a grassland site. Journal of Geophysical Research, 2004, 109, .	3.3	44
14	Model performance in spatiotemporal patterns of precipitation: New methods for identifying value added by a regional climate model. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1239-1259.	3.3	44
15	High-resolution Dynamical Downscaling Ensemble Projections of Future Extreme Temperature Distributions for the United States. Earth's Future, 2017, 5, 1234-1251.	6.3	42
16	Fast domain-aware neural network emulation of a planetary boundary layer parameterization in a numerical weather forecast model. Geoscientific Model Development, 2019, 12, 4261-4274.	3.6	42
17	Downscaling with a nested regional climate model in near-surface fields over the contiguous United States. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8778-8797.	3.3	40
18	The Characteristics of the Chicago Lake Breeze and Its Effects on Trace Particle Transport: Results from an Episodic Event Simulation. Journal of Applied Meteorology and Climatology, 2005, 44, 1637-1654.	1.7	36

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19	Performance of WRF-Chem over Indian region: Comparison with measurements. <i>Journal of Earth System Science</i> , 2015, 124, 875-896.	1.3	34
20	The Need for an Integrated Land-Lake-Atmosphere Modeling System, Exemplified by North America's Great Lakes Region. <i>Earth's Future</i> , 2018, 6, 1366-1379.	6.3	34
21	Evaluations of high-resolution dynamically downscaled ensembles over the contiguous United States. <i>Climate Dynamics</i> , 2018, 50, 863-884.	3.8	33
22	Heterogeneous NOx chemistry in the polluted PBL. <i>Atmospheric Environment</i> , 2001, 35, 4489-4498.	4.1	32
23	Optical properties and CCN activity of aerosols in a high-altitude Himalayan environment: Results from RAWEX-GVAX. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2453-2469.	3.3	31
24	Modeling the impact of agricultural land use and management on US carbon budgets. <i>Biogeosciences</i> , 2015, 12, 2119-2129.	3.3	31
25	Assessment of Dynamical Downscaling in Near-Surface Fields with Different Spectral Nudging Approaches Using the Nested Regional Climate Model (NRCM). <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 1576-1591.	1.5	30
26	Field observations of regional and urban impacts on NO ₂ , ozone, UVB, and nitrate radical production rates in the Phoenix air basin. <i>Atmospheric Environment</i> , 2002, 36, 825-833.	4.1	27
27	Analyses for High-Resolution Projections Through the End of the 21st Century for Precipitation Extremes Over the United States. <i>Earth's Future</i> , 2018, 6, 1471-1490.	6.3	27
28	Evolution of Aerosol Research in India and the RAWEX-GVAX: An Overview. <i>Current Science</i> , 2016, 111, 53.	0.8	26
29	Radiative and thermodynamic responses to aerosol extinction profiles during the pre-monsoon month over South Asia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 247-264.	4.9	25
30	High-Frequency Vertical Profiling of Meteorological Parameters Using AMF1 Facility during RAWEX-GVAX at ARIES, Nainital. <i>Current Science</i> , 2016, 111, 132.	0.8	24
31	Future atmospheric methane concentrations in the context of the stabilization of greenhouse gas concentrations. <i>Journal of Geophysical Research</i> , 1999, 104, 19183-19190.	3.3	23
32	Evaluation of dynamically downscaled extreme temperature using a spatially-aggregated generalized extreme value (GEV) model. <i>Climate Dynamics</i> , 2016, 47, 2833-2849.	3.8	23
33	Large-eddy simulation sensitivities to variations of configuration and forcing parameters in canonical boundary-layer flows for wind energy applications. <i>Wind Energy Science</i> , 2018, 3, 589-613.	3.3	22
34	Effects of spatial resolution on WRF v3.8.1 simulated meteorology over the central Himalaya. <i>Geoscientific Model Development</i> , 2021, 14, 1427-1443.	3.6	21
35	Fast and accurate learned multiresolution dynamical downscaling for precipitation. <i>Geoscientific Model Development</i> , 2021, 14, 6355-6372.	3.6	21
36	Effect of lightning on the concentration of odd nitrogen species in the lower stratosphere: An update. <i>Journal of Geophysical Research</i> , 1994, 99, 8167.	3.3	17

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37	The Need for Urban-Resolving Climate Modeling Across Scales. AGU Advances, 2021, 2, e2020AV000271.	5.4	17
38	Projected U.S. drought extremes through the twenty-first century with vapor pressure deficit. Scientific Reports, 2022, 12, .	3.3	17
39	Diagnosing added value of convection-permitting regional models using precipitation event identification and tracking. Climate Dynamics, 2020, 55, 175-192.	3.8	15
40	Evidence of heterogeneous chemistry on sulfate aerosols in stratospherically influenced air masses sampled during PEM-West B. Journal of Geophysical Research, 1997, 102, 28425-28436.	3.3	14
41	Increased absorption by coarse aerosol particles over the Gangetic-Himalayan region. Atmospheric Chemistry and Physics, 2014, 14, 1159-1165.	4.9	14
42	A parallel workflow implementation for PEST version 13.6 in high-performance computing for WRF-Hydro version 5.0: a case study over the midwestern United States. Geoscientific Model Development, 2019, 12, 3523-3539.	3.6	14
43	Recovering Evapotranspiration Trends from Biased CMIP5 Simulations and Sensitivity to Changing Climate over North America. Journal of Hydrometeorology, 2019, 20, 1619-1633.	1.9	14
44	Seasonal variability of ozone mixing ratios and budgets in the tropical southern Pacific: A GCTM perspective. Journal of Geophysical Research, 2003, 108, PEM 7-1.	3.3	13
45	A modeling study of the long-range transport of Kosa using particle trajectory methods. Tellus, Series B: Chemical and Physical Meteorology, 1993, 45, 426-441.	1.6	11
46	Effects of nonmethane hydrocarbons on lower stratospheric and upper tropospheric chemical climatology in a two-dimensional zonal average model. Journal of Geophysical Research, 1999, 104, 21537-21547.	3.3	11
47	EAKF-CMAQ: Introduction and evaluation of a data assimilation for CMAQ based on the ensemble adjustment Kalman filter. Journal of Geophysical Research, 2008, 113, .	3.3	11
48	A simulation study of atmospheric mercury and its deposition in the Great Lakes. Atmospheric Environment, 2014, 94, 164-172.	4.1	11
49	Humidity Bias and Effect on Simulated Aerosol Optical Properties during the Ganges Valley Experiment. Current Science, 2016, 111, 93.	0.8	11
50	Cross-tropopause transport of excess ¹⁴ C in a two-dimensional model. Journal of Geophysical Research, 1993, 98, 18599-18606.	3.3	10
51	A modeling study of the long-range transport of Kosa using particle trajectory methods. Tellus, Series B: Chemical and Physical Meteorology, 2022, 45, 426.	1.6	9
52	The regional distribution of tropospheric ozone in East Asia from satellite-based measurements. Journal of Atmospheric Chemistry, 1992, 14, 285-295.	3.2	8
53	Urban-Scale Processes in High-Spatial-Resolution Earth System Models. Bulletin of the American Meteorological Society, 2020, 101, E1555-E1561.	3.3	7
54	Beryllium-7 Measurements in the Houston and Phoenix Urban Areas: An Estimation of Upper Atmospheric Ozone Contributions. Journal of the Air and Waste Management Association, 2005, 55, 1228-1235.	1.9	5

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55	Internal variability of a dynamically downscaled climate over North America. <i>Climate Dynamics</i> , 2018, 50, 4539-4559.	3.8	5
56	Methane in the Global Environment. , 2000, , 304-341.		5
57	Variations in the Cloud-Base Height over the Central Himalayas during GVAX:Association with the Monsoon Rainfall. <i>Current Science</i> , 2016, 111, 109.	0.8	5
58	Efficient high-dimensional variational data assimilation with machine-learned reduced-order models. <i>Geoscientific Model Development</i> , 2022, 15, 3433-3445.	3.6	4
59	Improved Spatiotemporal Representativeness and Bias Reduction of Satellite-Based Evapotranspiration Retrievals via Use of In Situ Meteorology and Constrained Canopy Surface Resistance. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 342-352.	3.0	3
60	Generating data ensembles over a model grid from sparse climate point measurements. <i>Journal of Physics: Conference Series</i> , 2008, 125, 012019.	0.4	2
61	Wave like signatures in aerosol optical depth and associated radiative impacts over the central Himalayan region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 133, 62-66.	1.6	2
62	Empirical-Statistical Downscaling. , 2021, , 82-101.		2
63	Projected Changes to Cool-Season Storm Tides in the 21st Century Along the Northeastern United States Coast. <i>Earth's Future</i> , 2021, 9, e2020EF001940.	6.3	2
64	A new approach to scenario analysis using simplified chemical transport models. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	1
65	Added Value of Downscaling. , 2021, , 102-120.		1
66	Doppler Lidar Observations over a High Altitude Mountainous Site Manora Peak in the Central Himalayan Region. <i>Current Science</i> , 2016, 111, 101.	0.8	1
67	Dynamical Downscaling. , 2021, , 64-81.		0
68	Uncertainty in Future Projections, and Approaches for Representing Uncertainty. , 2021, , 121-138.		0
69	Guidance and Recommendations for Use of (Downscaled) Climate Information. , 2021, , 139-156.		0
70	Impacts, Adaptation, Vulnerability, and Decision-Making. , 2021, , 1-18.		0
71	Assessing Climate-Change Impacts at the Regional Scale. , 2021, , 40-63.		0
72	Global Climate Models. , 2021, , 19-39.		0

#	ARTICLE	IF	CITATIONS
73	The Future of Regional Downscaling. , 2021, , 157-165.		0
74	Evaluation of obstacle modelling approaches for resource assessment and small wind turbine siting: case study in the northern Netherlands. Wind Energy Science, 2022, 7, 1153-1169.	3.3	0