Jose Abraham Torres-Alavez

List of Publications by Year
in descending order

95 papers	11,658 citations	50276 46 h-index	42399 92 g-index
100 all docs	100 docs citations	100 times ranked	8658 citing authors

#	Article	IF	Citations
1	Regional Climate Modeling for the Developing World: The ICTP RegCM3 and RegCNET. Bulletin of the American Meteorological Society, 2007, 88, 1395-1410.	3.3	847
2	Introduction to special section: Regional Climate Modeling Revisited. Journal of Geophysical Research, 1999, 104, 6335-6352.	3.3	808
3	Development of a Second-Generation Regional Climate Model (RegCM2). Part I: Boundary-Layer and Radiative Transfer Processes. Monthly Weather Review, 1993, 121, 2794-2813.	1.4	678
4	Development of a Second-Generation Regional Climate Model (RegCM2). Part II: Convective Processes and Assimilation of Lateral Boundary Conditions. Monthly Weather Review, 1993, 121, 2814-2832.	1.4	659
5	Precipitation Climatology in an Ensemble of CORDEX-Africa Regional Climate Simulations. Journal of Climate, 2012, 25, 6057-6078.	3.2	536
6	A regional climate model for the western United States. Climatic Change, 1989, 15, 383.	3.6	494
7	Regional Dynamical Downscaling and the CORDEX Initiative. Annual Review of Environment and Resources, 2015, 40, 467-490.	13.4	484
8	The Climatological Skill of a Regional Model over Complex Terrain. Monthly Weather Review, 1989, 117, 2325-2347.	1.4	410
9	Heat stress intensification in the Mediterranean climate change hotspot. Geophysical Research Letters, 2007, 34, .	4.0	361
10	Thirty Years of Regional Climate Modeling: Where Are We and Where Are We Going next?. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5696-5723.	3.3	358
11	Projected changes in mean and extreme precipitation over the Mediterranean region from a high resolution double nested RCM simulation. Geophysical Research Letters, 2006, 33, .	4.0	314
12	Mean, interannual variability and trends in a regional climate change experiment over Europe. II: climate change scenarios (2071?2100). Climate Dynamics, 2004, 23, 839-858.	3.8	297
13	WCRP COordinated Regional Downscaling EXperiment (CORDEX): a diagnostic MIP for CMIP6. Geoscientific Model Development, 2016, 9, 4087-4095.	3.6	286
14	Evaluating uncertainties in the prediction of regional climate change. Geophysical Research Letters, 2000, 27, 1295-1298.	4.0	237
15	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. Journal of Climate, 2020, 33, 3635-3661.	3.2	230
16	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. Regional Environmental Change, 2020, 20, 1.	2.9	227
17	Enhanced summer convective rainfall at Alpine high elevations in response to climate warming. Nature Geoscience, 2016, 9, 584-589.	12.9	197
18	Percentile indices for assessing changes in heavy precipitation events. Climatic Change, 2016, 137, 201-216.	3.6	197

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19	Consistency of recent European summer precipitation trends and extremes with future regional climate projections. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	196
20	Climate change hotspots in the United States. Geophysical Research Letters, 2008, 35, .	4.0	196
21	Land surface coupling in regional climate simulations of the West African monsoon. Climate Dynamics, 2009, 33, 869-892.	3.8	195
22	Direct radiative forcing and regional climatic effects of anthropogenic aerosols over East Asia: A regional coupled climate-chemistry/aerosol model study. Journal of Geophysical Research, 2002, 107, AAC 7-1.	3.3	155
23	Time of emergence (TOE) of GHGâ€forced precipitation change hotâ€spots. Geophysical Research Letters, 2009, 36, .	4.0	136
24	Extension and Intensification of the Meso-American mid-summer drought in the twenty-first century. Climate Dynamics, 2008, 31, 551-571.	3.8	125
25	Title is missing!. Climatic Change, 2003, 58, 345-376.	3.6	120
26	Climate Change Prediction. Climatic Change, 2005, 73, 239-265.	3.6	120
27	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. Climate Dynamics, 2021, 57, 275-302.	3.8	114
28	Simulation of the Indian monsoon using the RegCM3â€“ROMS regional coupled model. Climate Dynamics, 2009, 33, 119-139.	3.8	113
29	Changes in extremes and hydroclimatic regimes in the CREMA ensemble projections. Climatic Change, 2014, 125, 39-51.	3.6	113
30	Regional climatic effects of anthropogenic aerosols? The case of southwestern China. Geophysical Research Letters, 2000, 27, 3521-3524.	4.0	104
31	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution part 2: historical and future simulations of precipitation. Climate Dynamics, 2021, 56, 3581-3602.	3.8	101
32	Simulation of South Asian aerosols for regional climate studies. Journal of Geophysical Research, 2012, 117, .	3.3	100
33	Scaling precipitation extremes with temperature in the Mediterranean: past climate assessment and projection in anthropogenic scenarios. Climate Dynamics, 2018, 51, 1237-1257.	3.8	100
34	Effects of a Subgrid-Scale Topography and Land Use Scheme on the Simulation of Surface Climate and Hydrology. Part I: Effects of Temperature and Water Vapor Disaggregation. Journal of Hydrometeorology, 2003, 4, 317-333.	1.9	99
35	Changes in European temperature extremes can be predicted from changes in PDF central statistics. Climatic Change, 2010, 98, 277-284.	3.6	90
36	An assessment of temperature and precipitation change projections over Italy from recent global and regional climate model simulations. International Journal of Climatology, 2010, 30, 11-32.	3.5	87

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37	Does the model regional bias affect the projected regional climate change? An analysis of global model projections. Climatic Change, 2010, 100, 787-795.	3.6	83
38	Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. Climate Dynamics, 2021, 57, 1293.	3.8	83
39	Future changes in Central Europe heat waves expected to mostly follow summer mean warming. Climate Dynamics, 2010, 35, 1191-1205.	3.8	82
40	Projected Heat Stress Under 1.5ÂÂ°C and 2ÂÂ°C Global Warming Scenarios Creates Unprecedented Discomfort for Humans in West Africa. Earth's Future, 2018, 6, 1029-1044.	6.3	81
41	Climate change impact on precipitation for the Amazon and La Plata basins. Climatic Change, 2014, 125, 111-125.	3.6	68
42	Assessing mean climate change signals in the global CORDEX-CORE ensemble. Climate Dynamics, 2021, 57, 1269.	3.8	63
43	Present and future climatologies in the phase I CREMA experiment. Climatic Change, 2014, 125, 23-38.	3.6	55
44	Land Use Change over the Amazon Forest and Its Impact on the Local Climate. Water (Switzerland), 2018, 10, 149.	2.7	53
45	Regional simulation of anthropogenic sulfur over East Asia and its sensitivity to model parameters. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 171.	1.6	50
46	European climateâ€change oscillation (ECO). Geophysical Research Letters, 2007, 34, .	4.0	49
47	Changing hydrological conditions in the Po basin under global warming. Science of the Total Environment, 2014, 493, 1183-1196.	8.0	49
48	Inter-annual variability of precipitation over Southern Mexico and Central America and its relationship to sea surface temperature from a set of future projections from CMIP5 GCMs and RegCM4 CORDEX simulations. Climate Dynamics, 2015, 45, 425-440.	3.8	49
49	A multimodel intercomparison of resolution effects on precipitation: simulations and theory. Climate Dynamics, 2016, 47, 2205-2218.	3.8	49
50	Current and future potential of solar and wind energy over Africa using the RegCM4 CORDEX-CORE ensemble. Climate Dynamics, 2021, 57, 1647.	3.8	49
51	Robust late twenty-first century shift in the regional monsoons in RegCM-CORDEX simulations. Climate Dynamics, 2021, 57, 1463-1488.	3.8	47
52	Dependence of the surface climate interannual variability on spatial scale. Geophysical Research Letters, 2002, 29, 16-1-16-4.	4.0	45
53	Convection suppression criteria applied to the MIT cumulus parameterization scheme for simulating the Asian summer monsoon. Geophysical Research Letters, 2006, 33, .	4.0	40
54	A new spatially distributed added value index for regional climate models: the EURO-CORDEX and the CORDEX-CORE highest resolution ensembles. Climate Dynamics, 2021, 57, 1403-1424.	3.8	40

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55	Projected seasonal mean summer monsoon over India and adjoining regions for the twenty-first century. Theoretical and Applied Climatology, 2015, 122, 581-593.	2.8	39
56	Mediterranean warm-core cyclones in a warmer world. Climate Dynamics, 2014, 42, 1053-1066.	3.8	37
57	The CORDEX-CORE EXP-I Initiative: Description and Highlight Results from the Initial Analysis. Bulletin of the American Meteorological Society, 2022, 103, E293-E310.	3.3	35
58	The role of ENSO and PDO in variability of winter precipitation over North America from twenty first century CMIP5 projections. Climate Dynamics, 2016, 46, 3259-3277.	3.8	34
59	Program focuses on climate of the Mediterranean region. Eos, 2012, 93, 105-106.	0.1	31
60	Indian Summer Monsoon as simulated by the regional earth system model RegCM-ES: the role of local airâ€“sea interaction. Climate Dynamics, 2019, 53, 759-778.	3.8	31
61	A Simple Equation for Regional Climate Change and Associated Uncertainty. Journal of Climate, 2008, 21, 1589-1604.	3.2	30
62	Introduction to the special issue: the phase I CORDEX RegCM4 hyper-matrix (CREMA) experiment. Climatic Change, 2014, 125, 1-5.	3.6	29
63	Non-Hydrostatic RegCM4 (RegCM4-NH): model description and case studies over multiple domains. Geoscientific Model Development, 2021, 14, 7705-7723.	3.6	29
64	Numerical framework and performance of the new multiple-phase cloud microphysics scheme in RegCM4.5: precipitation, cloud microphysics, and cloud radiative effects. Geoscientific Model Development, 2016, 9, 2533-2547.	3.6	28
65	200Âyears of equilibrium-line altitude variability across the European Alps (1901â^'2100). Climate Dynamics, 2021, 56, 1183-1201.	3.8	28
66	Editorial for the CORDEX-CORE Experiment I Special Issue. Climate Dynamics, 2021, 57, 1265-1268.	3.8	27
67	Evaluation of the radiation budget with a regional climate model over Europe and inspection of dimming and brightening. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1951-1971.	3.3	25
68	Influence of Lake Malawi on regional climate from a double-nested regional climate model experiment. Climate Dynamics, 2018, 50, 3397-3411.	3.8	25
69	Climate Change over China in the 21st Century as Simulated by BCC_CSM1.1-RegCM4.0. , 0, .		23
70	Future projections of Mediterranean cyclone characteristics using the Med-CORDEX ensemble of coupled regional climate system models. Climate Dynamics, 2022, 58, 2501-2524.	3.8	22
71	The performance of RegCM4 over the Central America and Caribbean region using different cumulus parameterizations. Climate Dynamics, 2018, 50, 4103-4126.	3.8	20
72	Future projections in the climatology of global low-level jets from CORDEX-CORE simulations. Climate Dynamics, 2021, 57, 1551-1569.	3.8	20

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73	Sensitivity of tropical cyclones to resolution, convection scheme and ocean flux parameterization over Eastern Tropical Pacific and Tropical North Atlantic Oceans in the RegCM4 model. Climate Dynamics, 2017, 49, 547-561.	3.8	19
74	Assessing changes in the atmospheric water budget as drivers for precipitation change over two CORDEX-CORE domains. Climate Dynamics, 2021, 57, 1615.	3.8	18
75	Simulation and Projection of Monso on Rainfall and Rain Patterns over Eastern China under Global Warming by RegCM3. Atmospheric and Oceanic Science Letters, 2009, 2, 308-313.	1.3	17
76	CORDEX: Climate Research and Information for Regions. Bulletin of the American Meteorological Society, 2017, 98, ES189-ES192.	3.3	17
77	Projected changes to severe thunderstorm environments as a result of twenty-first century warming from RegCM CORDEX-CORE simulations. Climate Dynamics, 2021, 57, 1595-1613.	3.8	15
78	Future projections in tropical cyclone activity over multiple CORDEX domains from RegCM4 CORDEX-CORE simulations. Climate Dynamics, 2021, 57, 1507-1531.	3.8	14
79	Producing actionable climate change information for regions: the distillation paradigm and the 3R framework. European Physical Journal Plus, 2020, 135, 1.	2.6	13
80	Emergence of robust anthropogenic increase of heat stress-related variables projected from CORDEX-CORE climate simulations. Climate Dynamics, 2021, 57, 1629-1644.	3.8	13
81	Land-Cover Change and the â€œDust Bowlâ€•Drought in the U.S. Great Plains. Journal of Climate, 2018, 31, 4657-4667.	3.2	12
82	Comparison of GCM and RCM simulated precipitation and temperature over Central America and the Caribbean. Theoretical and Applied Climatology, 2021, 143, 389-402.	2.8	12
83	Future changes in winter explosive cyclones over the Southern Hemisphere domains from the CORDEX-CORE ensemble. Climate Dynamics, 2021, 57, 3303-3322.	3.8	12
84	Development and validation of a regional coupled atmosphere lake model for the Caspian Sea Basin. Climate Dynamics, 2013, 41, 1731-1748.	3.8	8
85	Non-Hydrostatic Regcm4 (Regcm4-NH): Evaluation of Precipitation Statistics at the Convection-Permitting Scale over Different Domains. Atmosphere, 2022, 13, 861.	2.3	8
86	Effects of Climate Change on Soil Erosion Risk Assessed by Clustering and Artificial Neural Network. Pure and Applied Geophysics, 2019, 176, 937-949.	1.9	7
87	Evaluation of the performance of the non-hydrostatic RegCM4 (RegCM4-NH) over Southeastern China. Climate Dynamics, 2022, 58, 1419-1437.	3.8	7
88	Projected changes in precipitation and temperature regimes and extremes over the Caribbean and Central America using a multiparameter ensemble of RegCM4. International Journal of Climatology, 2021, 41, 1328-1350.	3.5	6
89	ENSO teleconnections in an ensemble of CORDEX-CORE regional simulations. Climate Dynamics, 2021, 57, 1445-1461.	3.8	6
90	Analysis of Cooling and Heating Degree Days over Mexico in Present and Future Climate. Atmosphere, 2021, 12, 1131.	2.3	6

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91	Caribbean <scp>Lowâ€Level</scp> Jet future projections using a multiparameter ensemble of <scp>RegCM4</scp> configurations. International Journal of Climatology, 2022, 42, 1544-1559.	3.5	5
92	Interannual variability of the boreal winter subtropical jet stream and teleconnections over the CORDEX-CAM domain during 1980â€“2010. Climate Dynamics, 2021, 57, 1571-1594.	3.8	3
93	Use of daily precipitation records to assess the response of extreme events to global warming: Methodology and illustrative application to the European region. International Journal of Climatology, 2022, 42, 7061-7070.	3.5	2
94	Appreciation of Peer Reviewers for 2019. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032611.	3.3	0
95	Appreciation of Peer Reviewers for 2020. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034920.	3.3	0