

# Jose Abraham Torres-Alavez

## List of Publications by Year in descending order

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95  
papers

11,658  
citations

50273

46  
h-index

42393

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. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	196
20	Climate change hotspots in the United States. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	196
21	Land surface coupling in regional climate simulations of the West African monsoon. <i>Climate Dynamics</i> , 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. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 7-1.	3.3	155
23	Time of emergence (TOE) of GHG-forced precipitation change hotspots. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	136
24	Extension and Intensification of the Meso-American mid-summer drought in the twenty-first century. <i>Climate Dynamics</i> , 2008, 31, 551-571.	3.8	125
25	Title is missing!. <i>Climatic Change</i> , 2003, 58, 345-376.	3.6	120
26	Climate Change Prediction. <i>Climatic Change</i> , 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. <i>Climate Dynamics</i> , 2021, 57, 275-302.	3.8	114
28	Simulation of the Indian monsoon using the RegCM3+ROMS regional coupled model. <i>Climate Dynamics</i> , 2009, 33, 119-139.	3.8	113
29	Changes in extremes and hydroclimatic regimes in the CREMA ensemble projections. <i>Climatic Change</i> , 2014, 125, 39-51.	3.6	113
30	Regional climatic effects of anthropogenic aerosols? The case of southwestern China. <i>Geophysical Research Letters</i> , 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. <i>Climate Dynamics</i> , 2021, 56, 3581-3602.	3.8	101
32	Simulation of South Asian aerosols for regional climate studies. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	100
33	Scaling precipitation extremes with temperature in the Mediterranean: past climate assessment and projection in anthropogenic scenarios. <i>Climate Dynamics</i> , 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. <i>Journal of Hydrometeorology</i> , 2003, 4, 317-333.	1.9	99
35	Changes in European temperature extremes can be predicted from changes in PDF central statistics. <i>Climatic Change</i> , 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. <i>International Journal of Climatology</i> , 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. <i>Climatic Change</i> , 2010, 100, 787-795.	3.6	83
38	Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. <i>Climate Dynamics</i> , 2021, 57, 1293.	3.8	83
39	Future changes in Central Europe heat waves expected to mostly follow summer mean warming. <i>Climate Dynamics</i> , 2010, 35, 1191-1205.	3.8	82
40	Projected Heat Stress Under 1.5°C and 2°C Global Warming Scenarios Creates Unprecedented Discomfort for Humans in West Africa. <i>Earth's Future</i> , 2018, 6, 1029-1044.	6.3	81
41	Climate change impact on precipitation for the Amazon and La Plata basins. <i>Climatic Change</i> , 2014, 125, 111-125.	3.6	68
42	Assessing mean climate change signals in the global CORDEX-CORE ensemble. <i>Climate Dynamics</i> , 2021, 57, 1269.	3.8	63
43	Present and future climatologies in the phase I CREMA experiment. <i>Climatic Change</i> , 2014, 125, 23-38.	3.6	55
44	Land Use Change over the Amazon Forest and Its Impact on the Local Climate. <i>Water (Switzerland)</i> , 2018, 10, 149.	2.7	53
45	Regional simulation of anthropogenic sulfur over East Asia and its sensitivity to model parameters. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 171.	1.6	50
46	European climate change oscillation (ECO). <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	49
47	Changing hydrological conditions in the Po basin under global warming. <i>Science of the Total Environment</i> , 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. <i>Climate Dynamics</i> , 2015, 45, 425-440.	3.8	49
49	A multimodel intercomparison of resolution effects on precipitation: simulations and theory. <i>Climate Dynamics</i> , 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. <i>Climate Dynamics</i> , 2021, 57, 1647.	3.8	49
51	Robust late twenty-first century shift in the regional monsoons in RegCM-CORDEX simulations. <i>Climate Dynamics</i> , 2021, 57, 1463-1488.	3.8	47
52	Dependence of the surface climate interannual variability on spatial scale. <i>Geophysical Research Letters</i> , 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. <i>Geophysical Research Letters</i> , 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. <i>Climate Dynamics</i> , 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. <i>Theoretical and Applied Climatology</i> , 2015, 122, 581-593.	2.8	39
56	Mediterranean warm-core cyclones in a warmer world. <i>Climate Dynamics</i> , 2014, 42, 1053-1066.	3.8	37
57	The CORDEX-CORE EXP-I Initiative: Description and Highlight Results from the Initial Analysis. <i>Bulletin of the American Meteorological Society</i> , 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. <i>Climate Dynamics</i> , 2016, 46, 3259-3277.	3.8	34
59	Program focuses on climate of the Mediterranean region. <i>Eos</i> , 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 air-sea interaction. <i>Climate Dynamics</i> , 2019, 53, 759-778.	3.8	31
61	A Simple Equation for Regional Climate Change and Associated Uncertainty. <i>Journal of Climate</i> , 2008, 21, 1589-1604.	3.2	30
62	Introduction to the special issue: the phase I CORDEX RegCM4 hyper-matrix (CREMA) experiment. <i>Climatic Change</i> , 2014, 125, 1-5.	3.6	29
63	Non-Hydrostatic RegCM4 (RegCM4-NH): model description and case studies over multiple domains. <i>Geoscientific Model Development</i> , 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. <i>Geoscientific Model Development</i> , 2016, 9, 2533-2547.	3.6	28
65	200 years of equilibrium-line altitude variability across the European Alps (1901-2100). <i>Climate Dynamics</i> , 2021, 56, 1183-1201.	3.8	28
66	Editorial for the CORDEX-CORE Experiment I Special Issue. <i>Climate Dynamics</i> , 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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1951-1971.	3.3	25
68	Influence of Lake Malawi on regional climate from a double-nested regional climate model experiment. <i>Climate Dynamics</i> , 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. <i>Climate Dynamics</i> , 2022, 58, 2501-2524.	3.8	22
71	The performance of RegCM4 over the Central America and Caribbean region using different cumulus parameterizations. <i>Climate Dynamics</i> , 2018, 50, 4103-4126.	3.8	20
72	Future projections in the climatology of global low-level jets from CORDEX-CORE simulations. <i>Climate Dynamics</i> , 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. <i>Climate Dynamics</i> , 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. <i>Climate Dynamics</i> , 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. <i>Atmospheric and Oceanic Science Letters</i> , 2009, 2, 308-313.	1.3	17
76	CORDEX: Climate Research and Information for Regions. <i>Bulletin of the American Meteorological Society</i> , 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. <i>Climate Dynamics</i> , 2021, 57, 1595-1613.	3.8	15
78	Future projections in tropical cyclone activity over multiple CORDEX domains from RegCM4 CORDEX-CORE simulations. <i>Climate Dynamics</i> , 2021, 57, 1507-1531.	3.8	14
79	Producing actionable climate change information for regions: the distillation paradigm and the 3R framework. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	13
80	Emergence of robust anthropogenic increase of heat stress-related variables projected from CORDEX-CORE climate simulations. <i>Climate Dynamics</i> , 2021, 57, 1629-1644.	3.8	13
81	Land-Cover Change and the "Dust Bowl" Drought in the U.S. Great Plains. <i>Journal of Climate</i> , 2018, 31, 4657-4667.	3.2	12
82	Comparison of GCM and RCM simulated precipitation and temperature over Central America and the Caribbean. <i>Theoretical and Applied Climatology</i> , 2021, 143, 389-402.	2.8	12
83	Future changes in winter explosive cyclones over the Southern Hemisphere domains from the CORDEX-CORE ensemble. <i>Climate Dynamics</i> , 2021, 57, 3303-3322.	3.8	12
84	Development and validation of a regional coupled atmosphere lake model for the Caspian Sea Basin. <i>Climate Dynamics</i> , 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. <i>Atmosphere</i> , 2022, 13, 861.	2.3	8
86	Effects of Climate Change on Soil Erosion Risk Assessed by Clustering and Artificial Neural Network. <i>Pure and Applied Geophysics</i> , 2019, 176, 937-949.	1.9	7
87	Evaluation of the performance of the non-hydrostatic RegCM4 (RegCM4-NH) over Southeastern China. <i>Climate Dynamics</i> , 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. <i>International Journal of Climatology</i> , 2021, 41, 1328-1350.	3.5	6
89	ENSO teleconnections in an ensemble of CORDEX-CORE regional simulations. <i>Climate Dynamics</i> , 2021, 57, 1445-1461.	3.8	6
90	Analysis of Cooling and Heating Degree Days over Mexico in Present and Future Climate. <i>Atmosphere</i> , 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