Jose Abraham Torres-Alavez

List of Publications by Citations

91 papers	8,870 citations	41 h-index	94 g-index
100 ext. papers	10,099 ext. citations	4.5 avg, IF	6.39 L-index

#	Paper	IF	Citations
91	Regional Climate Modeling for the Developing World: The ICTP RegCM3 and RegCNET. *Bulletin of the American Meteorological Society*, **2007**, 88, 1395-1410	6.1	776
90	Introduction to special section: Regional Climate Modeling Revisited. *Journal of Geophysical Research*, **1999**, 104, 6335-6352		653
89	Development of a Second-Generation Regional Climate Model (RegCM2). Part I: Boundary-Layer and Radiative Transfer Processes. *Monthly Weather Review*, **1993**, 121, 2794-2813	2.4	599
88	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	2.4	583
87	Precipitation Climatology in an Ensemble of CORDEX-Africa Regional Climate Simulations. *Journal of Climate*, **2012**, 25, 6057-6078	4.4	447
86	A regional climate model for the western United States. *Climatic Change*, **1989**, 15, 383	4.5	386
85	The Climatological Skill of a Regional Model over Complex Terrain. *Monthly Weather Review*, **1989**, 117, 2325-2347	2.4	349
84	Regional Dynamical Downscaling and the CORDEX Initiative. *Annual Review of Environment and Resources*, **2015**, 40, 467-490	17.2	330
83	Heat stress intensification in the Mediterranean climate change hotspot. *Geophysical Research Letters*, **2007**, 34,	4.9	289
82	Projected changes in mean and extreme precipitation over the Mediterranean region from a high resolution double nested RCM simulation. *Geophysical Research Letters*, **2006**, 33,	4.9	273
81	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	4.2	262
80	Evaluating uncertainties in the prediction of regional climate change. *Geophysical Research Letters*, **2000**, 27, 1295-1298	4.9	210
79	WCRP COordinated Regional Downscaling EXperiment (CORDEX): a diagnostic MIP for CMIP6. *Geoscientific Model Development*, **2016**, 9, 4087-4095	6.3	174
78	Consistency of recent European summer precipitation trends and extremes with future regional climate projections. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	172
77	Land surface coupling in regional climate simulations of the West African monsoon. *Climate Dynamics*, **2009**, 33, 869-892	4.2	169
76	Climate change hotspots in the United States. *Geophysical Research Letters*, **2008**, 35,	4.9	160
75	Enhanced summer convective rainfall at Alpine high elevations in response to climate warming. *Nature Geoscience*, **2016**, 9, 584-589	18.3	145

74	Percentile indices for assessing changes in heavy precipitation events. *Climatic Change*, **2016**, 137, 201-216	4.5	140
73	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		139
72	Thirty Years of Regional Climate Modeling: Where Are We and Where Are We Going next?. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 5696	4.4	130
71	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. *Journal of Climate*, **2020**, 33, 3635-3661	4.4	113
70	Simulation of the Indian monsoon using the RegCM3–ROMS regional coupled model. *Climate Dynamics*, **2009**, 33, 119-139	4.2	106
69	Time of emergence (TOE) of GHG-forced precipitation change hot-spots. *Geophysical Research Letters*, **2009**, 36,	4.9	106
68	Extension and Intensification of the Meso-American mid-summer drought in the twenty-first century. *Climate Dynamics*, **2008**, 31, 551-571	4.2	105
67	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. *Regional Environmental Change*, **2020**, 20, 1	4.3	104
66	Changes in extremes and hydroclimatic regimes in the CREMA ensemble projections. *Climatic Change*, **2014**, 125, 39-51	4.5	97
65	Indirect vs. Direct Effects of Anthropogenic Sulfate on the Climate of East Asia as Simulated with a Regional Coupled Climate-Chemistry/Aerosol Model. *Climatic Change*, **2003**, 58, 345-376	4.5	96
64	Climate Change Prediction. *Climatic Change*, **2005**, 73, 239-265	4.5	94
63	Regional climatic effects of anthropogenic aerosols? The case of southwestern China. *Geophysical Research Letters*, **2000**, 27, 3521-3524	4.9	91
62	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	3.7	90
61	Changes in European temperature extremes can be predicted from changes in PDF central statistics. *Climatic Change*, **2010**, 98, 277-284	4.5	82
60	Simulation of South Asian aerosols for regional climate studies. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		81
59	Does the model regional bias affect the projected regional climate change? An analysis of global model projections. *Climatic Change*, **2010**, 100, 787-795	4.5	74
58	Future changes in Central Europe heat waves expected to mostly follow summer mean warming. *Climate Dynamics*, **2010**, 35, 1191-1205	4.2	71
57	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	70

56	Scaling precipitation extremes with temperature in the Mediterranean: past climate assessment and projection in anthropogenic scenarios. *Climate Dynamics*, **2018**, 51, 1237-1257	4.2	69
55	Climate change impact on precipitation for the Amazon and La Plata basins. *Climatic Change*, **2014**, 125, 111-125	4.5	56
54	Present and future climatologies in the phase I CREMA experiment. *Climatic Change*, **2014**, 125, 23-38	4.5	51
53	Projected Heat Stress Under 1.5□C and 2□C Global Warming Scenarios Creates Unprecedented Discomfort for Humans in West Africa. *Earth's Future*, **2018**, 6, 1029-1044	7.9	47
52	Regional simulation of anthropogenic sulfur over East Asia and its sensitivity to model parameters. *Tellus, Series B: Chemical and Physical Meteorology*, **2001**, 53, 171-191	3.3	45
51	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	4.2	42
50	Dependence of the surface climate interannual variability on spatial scale. *Geophysical Research Letters*, **2002**, 29, 16-1-16-4	4.9	39
49	European climate-change oscillation (ECO). *Geophysical Research Letters*, **2007**, 34,	4.9	38
48	Convection suppression criteria applied to the MIT cumulus parameterization scheme for simulating the Asian summer monsoon. *Geophysical Research Letters*, **2006**, 33,	4.9	38
47	A multimodel intercomparison of resolution effects on precipitation: simulations and theory. *Climate Dynamics*, **2016**, 47, 2205-2218	4.2	37
46	Changing hydrological conditions in the Po basin under global warming. *Science of the Total Environment*, **2014**, 493, 1183-96	10.2	37
45	Mediterranean warm-core cyclones in a warmer world. *Climate Dynamics*, **2014**, 42, 1053-1066	4.2	33
44	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. *Climate Dynamics*, **2021**, 57, 275-302	4.2	31
43	Projected seasonal mean summer monsoon over India and adjoining regions for the twenty-first century. *Theoretical and Applied Climatology*, **2015**, 122, 581-593	3	29
42	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	4.2	29
41	Land Use Change over the Amazon Forest and Its Impact on the Local Climate. *Water (Switzerland)*, **2018**, 10, 149	3	26
40	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	4.2	26
39	Introduction to the special issue: the phase I CORDEX RegCM4 hyper-matrix (CREMA) experiment. *Climatic Change*, **2014**, 125, 1-5	4.5	25

38	Robust late twenty-first century shift in the regional monsoons in RegCM-CORDEX simulations. *Climate Dynamics*, **2021**, 57, 1463-1488	4.2	25
37	Indian Summer Monsoon as simulated by the regional earth system model RegCM-ES: the role of local air□ea interaction. *Climate Dynamics*, **2019**, 53, 759-778	4.2	24
36	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	4.4	22
35	A Simple Equation for Regional Climate Change and Associated Uncertainty. *Journal of Climate*, **2008**, 21, 1589-1604	4.4	21
34	Assessing mean climate change signals in the global CORDEX-CORE ensemble. *Climate Dynamics*, **2020**, 57, 1269	4.2	21
33	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	6.3	21
32	Program focuses on climate of the Mediterranean region. *Eos*, **2012**, 93, 105-106	1.5	20
31	Influence of Lake Malawi on regional climate from a double-nested regional climate model experiment. *Climate Dynamics*, **2018**, 50, 3397-3411	4.2	20
30	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	4.2	18
29	The performance of RegCM4 over the Central America and Caribbean region using different cumulus parameterizations. *Climate Dynamics*, **2018**, 50, 4103-4126	4.2	17
28	Climate Change over China in the 21st Century as Simulated by BCC_CSM1.1-RegCM4.0		17
27	Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. *Climate Dynamics*, **2021**, 57, 1293	4.2	16
26	CORDEX: Climate Research and Information for Regions. *Bulletin of the American Meteorological Society*, **2017**, 98, ES189-ES192	6.1	15
25	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	1.4	15
24	Current and future potential of solar and wind energy over Africa using the RegCM4 CORDEX-CORE ensemble. *Climate Dynamics*, **2020**, 57, 1647	4.2	14
23	A new spatially distributed added value index for regional climate models: the EURO-CORDEX and the CORDEX-CORE highest resolution ensembles. *Climate Dynamics*, **2020**, 57, 1403	4.2	13
22	Future projections in the climatology of global low-level jets from CORDEX-CORE simulations. *Climate Dynamics*, **2021**, 57, 1551-1569	4.2	9
21	200 years of equilibrium-line altitude variability across the European Alps (1901□2100). *Climate Dynamics*, **2021**, 56, 1183-1201	4.2	8

20	Development and validation of a regional coupled atmosphere lake model for the Caspian Sea Basin. *Climate Dynamics*, **2013**, 41, 1731-1748	4.2	7
19	The CORDEX-CORE EXP-I initiative: Description and highlight results from the initial analysis. *Bulletin of the American Meteorological Society*, **2021**, 1-52	6.1	7
18	Effects of Climate Change on Soil Erosion Risk Assessed by Clustering and Artificial Neural Network. *Pure and Applied Geophysics*, **2019**, 176, 937-949	2.2	7
17	Land-Cover Change and the Dust Bowl Drought in the U.S. Great Plains. *Journal of Climate*, **2018**, 31, 4657-4667	4.4	7
16	Producing actionable climate change information for regions: the distillation paradigm and the 3R framework. *European Physical Journal Plus*, **2020**, 135, 1	3.1	6
15	Future projections of Mediterranean cyclone characteristics using the Med-CORDEX ensemble of coupled regional climate system models. *Climate Dynamics*,1	4.2	6
14	Assessing changes in the atmospheric water budget as drivers for precipitation change over two CORDEX-CORE domains. *Climate Dynamics*, **2020**, 57, 1615	4.2	6
13	Projected changes to severe thunderstorm environments as a result of twenty-first century warming from RegCM CORDEX-CORE simulations. *Climate Dynamics*, **2020**, 57, 1595	4.2	6
12	Non-Hydrostatic RegCM4 (RegCM4-NH): Model description and case studies over multiple domains		4
11	Future projections in tropical cyclone activity over multiple CORDEX domains from RegCM4 CORDEX-CORE simulations. *Climate Dynamics*, **2021**, 57, 1507-1531	4.2	4
10	Future changes in winter explosive cyclones over the Southern Hemisphere domains from the CORDEX-CORE ensemble. *Climate Dynamics*, **2021**, 57, 3303	4.2	4
9	Emergence of robust anthropogenic increase of heat stress-related variables projected from CORDEX-CORE climate simulations. *Climate Dynamics*, **2021**, 57, 1629-1644	4.2	4
8	Comparison of GCM and RCM simulated precipitation and temperature over Central America and the Caribbean. *Theoretical and Applied Climatology*, **2021**, 143, 389-402	3	4
7	Non-Hydrostatic RegCM4 (RegCM4-NH): model description and case studies over multiple domains. *Geoscientific Model Development*, **2021**, 14, 7705-7723	6.3	4
6	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	3
5	ENSO teleconnections in an ensemble of CORDEX-CORE regional simulations. *Climate Dynamics*, **2021**, 57, 1445-1461	4.2	2
4	Evaluation of the performance of the non-hydrostatic RegCM4 (RegCM4-NH) over Southeastern China. *Climate Dynamics*,1	4.2	1
3	Interannual variability of the boreal winter subtropical jet stream and teleconnections over the CORDEX-CAM domain during 19802010. *Climate Dynamics*, **2021**, 57, 1571-1594	4.2	1

2	Analysis of Cooling and Heating Degree Days over Mexico in Present and Future Climate. *Atmosphere*, **2021**, 12, 1131	2.7	1
1	Non-Hydrostatic Regcm4 (Regcm4-NH): Evaluation of Precipitation Statistics at the Convection-Permitting Scale over Different Domains. *Atmosphere*, **2022**, 13, 861	2.7	1