

Joellen L Russell

List of Publications by Year in descending order

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53
papers

6,408
citations

172457

29
h-index

175258

52
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55
all docs

55
docs citations

55
times ranked

8520
citing authors

#	ARTICLE	IF	CITATIONS
1	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006, 19, 643-674.	3.2	1,431
2	Midlatitude westerlies, atmospheric CO ₂ , and climate change during the ice ages. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	676
3	Wind erosion in the Qaidam basin, central Asia: Implications for tectonics, paleoclimate, and the source of the Loess Plateau. <i>GSA Today</i> , 2011, 21, 4-10.	2.0	593
4	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019, 9, 102-110.	18.8	407
5	Formulation of an ocean model for global climate simulations. <i>Ocean Science</i> , 2005, 1, 45-79.	3.4	343
6	Ocean circulation in a warming climate. <i>Nature</i> , 2008, 451, 286-288.	27.8	308
7	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. <i>Journal of Climate</i> , 2006, 19, 675-697.	3.2	269
8	The Southern Hemisphere Westerlies in a Warming World: Propping Open the Door to the Deep Ocean. <i>Journal of Climate</i> , 2006, 19, 6382-6390.	3.2	255
9	The environmental context for the origins of modern human diversity: A synthesis of regional variability in African climate 150,000–30,000 years ago. <i>Journal of Human Evolution</i> , 2012, 62, 563-592.	2.6	240
10	Change in future climate due to Antarctic meltwater. <i>Nature</i> , 2018, 564, 53-58.	27.8	189
11	Antarctic penguin response to habitat change as Earth's troposphere reaches 2°C above preindustrial levels. <i>Ecological Monographs</i> , 2010, 80, 49-66.	5.4	145
12	Autonomous Biogeochemical Floats Detect Significant Carbon Dioxide Outgassing in the High-Latitude Southern Ocean. <i>Geophysical Research Letters</i> , 2018, 45, 9049-9057.	4.0	138
13	Intercomparison of the Southern Ocean Circulations in IPCC Coupled Model Control Simulations. <i>Journal of Climate</i> , 2006, 19, 4560-4575.	3.2	134
14	Calculating surface ocean pCO ₂ from biogeochemical Argo floats equipped with pH: An uncertainty analysis. <i>Global Biogeochemical Cycles</i> , 2017, 31, 591-604.	4.9	104
15	GCM simulations of Titan's middle and lower atmosphere and comparison to observations. <i>Icarus</i> , 2015, 250, 516-528.	2.5	97
16	Different magnitudes of projected subsurface ocean warming around Greenland and Antarctica. <i>Nature Geoscience</i> , 2011, 4, 524-528.	12.9	81
17	Earth System Model Evaluation Tool (ESMValTool) v2.0 – an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2020, 13, 3383-3438.	3.6	69
18	Northern Annular Mode impact on spring climate in the western United States. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	68

#	ARTICLE	IF	CITATIONS
19	Effect of global ocean temperature change on deep ocean ventilation. <i>Paleoceanography</i> , 2007, 22, .	3.0	59
20	The Zealandia Switch: Ice age climate shifts viewed from Southern Hemisphere moraines. <i>Quaternary Science Reviews</i> , 2021, 257, 106771.	3.0	59
21	Representation of Southern Ocean Properties across Coupled Model Intercomparison Project Generations: CMIP3 to CMIP6. <i>Journal of Climate</i> , 2020, 33, 6555-6581.	3.2	59
22	How does ocean ventilation change under global warming?. <i>Ocean Science</i> , 2007, 3, 43-53.	3.4	55
23	Empirical algorithms to estimate water column pH in the Southern Ocean. <i>Geophysical Research Letters</i> , 2016, 43, 3415-3422.	4.0	48
24	Two Modes of North American Drought from Instrumental and Paleoclimatic Data*. <i>Journal of Climate</i> , 2009, 22, 4336-4347.	3.2	42
25	Assessment of the Carbonate Chemistry Seasonal Cycles in the Southern Ocean From Persistent Observational Platforms. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4833-4852.	2.6	42
26	Importance of wind and meltwater for observed chemical and physical changes in the Southern Ocean. <i>Nature Geoscience</i> , 2020, 13, 35-42.	12.9	42
27	Simulations of Titanâ€™s paleoclimate. <i>Icarus</i> , 2014, 243, 264-273.	2.5	39
28	From dust to dust: Quaternary wind erosion of the Mu Us Desert and Loess Plateau, China. <i>Geology</i> , 2015, 43, 835-838.	4.4	39
29	Quantifying anthropogenic carbon inventory changes in the Pacific sector of the Southern Ocean. <i>Marine Chemistry</i> , 2015, 174, 147-160.	2.3	38
30	Future Climate: Projected Average. , 2013, , 101-125.		34
31	Metrics for the Evaluation of the Southern Ocean in Coupled Climate Models and Earth System Models. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3120-3143.	2.6	29
32	Agreement of CMIP5 Simulated and Observed Ocean Anthropogenic CO ₂ Uptake. <i>Geophysical Research Letters</i> , 2017, 44, 12,298.	4.0	27
33	Back to the Future: Using Long-Term Observational and Paleo-Proxy Reconstructions to Improve Model Projections of Antarctic Climate. <i>Geosciences (Switzerland)</i> , 2019, 9, 255.	2.2	27
34	Variability in oxygen and nutrients in South Pacific Antarctic Intermediate Water. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	4.9	26
35	Evaluating IPCC AR4 cool-season precipitation simulations and projections for impacts assessment over North America. <i>Climate Dynamics</i> , 2011, 37, 2271-2287.	3.8	20
36	Annual carbon dioxide drawdown and the Northern Annular Mode. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	19

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37	Importance of oceanic heat uptake in transient climate change. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	19
38	Reconstructing surface ocean circulation with 129 I time series records from corals. <i>Journal of Environmental Radioactivity</i> , 2016, 165, 144-150.	1.7	19
39	Assessing the Quality of Southern Ocean Circulation in CMIP5 AOGCM and Earth System Model Simulations. <i>Journal of Climate</i> , 2019, 32, 5915-5940.	3.2	17
40	Fishing for Data in the Ross Sea. <i>Science</i> , 2010, 330, 1316-1316.	12.6	15
41	Importance of the Antarctic Slope Current in the Southern Ocean Response to Ice Sheet Melt and Wind Stress Change. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	14
42	Insolation in Titan's troposphere. <i>Icarus</i> , 2011, 216, 116-119.	2.5	13
43	Impact of Mountains on Tropical Circulation in Two Earth System Models. <i>Journal of Climate</i> , 2017, 30, 4149-4163.	3.2	13
44	Measurements of 129I in the Pacific Ocean at Scripps Pier and Pacific Northwest sites: A search for effects from the 2011 Fukushima Daiichi Nuclear Power Plant accident and Hanford. <i>Science of the Total Environment</i> , 2019, 689, 1023-1029.	8.0	11
45	Evaluation of Subtropical North Atlantic Ocean Circulation in CMIP5 Models against the Observational Array at 26.5°N and Its Changes under Continued Warming. <i>Journal of Climate</i> , 2018, 31, 9697-9718.	3.2	9
46	A Multidisciplinary Perspective on Climate Model Evaluation For Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES23-ES26.	3.3	7
47	The Effect of Resolution on Vertical Heat and Carbon Transports in a Regional Ocean Circulation Model of the Argentine Basin. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017235.	2.6	5
48	In the hot seat: Insolation, ENSO, and vegetation in the African tropics. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1347-1358.	3.0	4
49	The Role of Continental Topography in the Present-Day Ocean's Mean Climate. <i>Journal of Climate</i> , 2022, 35, 1327-1346.	3.2	2
50	Southern Ocean dynamics and biogeochemistry in a changing climate: Introduction and overview. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 114, 1-2.	1.4	1
51	Ocean sensors can track progress on climate goals. <i>Nature</i> , 2018, 555, 287-287.	27.8	1
52	Investigating Predictability of DIC and SST in the Argentine Basin Through Wind Stress Perturbation Experiments. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095504.	4.0	1
53	Influence of bias correction on simulated landcover changes. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	0