Venkatramani Balaji

List of Publications by Year
in descending order

36	5,695	279798	395702
papers	citations	23 h-index	33 g-index

55	55	55	7080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 2006, 19, 643-674.	3.2	1,431
2	Eutrophication will increase during the 21st century as a result of precipitation changes. Science, 2017, 357, 405-408.	12.6	664
3	Simulated Climate and Climate Change in the GFDL CM2.5 High-Resolution Coupled Climate Model. Journal of Climate, 2012, 25, 2755-2781.	3.2	454
4	The Art and Science of Climate Model Tuning. Bulletin of the American Meteorological Society, 2017, 98, 589-602.	3.3	343
5	On the Seasonal Forecasting of Regional Tropical Cyclone Activity. Journal of Climate, 2014, 27, 7994-8016.	3.2	340
6	The GFDL Earth System Model Version 4.1 (GFDLâ€ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002015.	3.8	277
7	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. Journal of Climate, 2006, 19, 675-697.	3.2	269
8	Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727.	3.8	242
9	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. Geoscientific Model Development, 2016, 9, 3231-3296.	3.6	223
10	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. Journal of Advances in Modeling Earth Systems, 2019, 11, 3167-3211.	3.8	195
11	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. Journal of Advances in Modeling Earth Systems, 2018, 10, 735-769.	3.8	185
12	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. Journal of Advances in Modeling Earth Systems, 2018, 10, 691-734.	3.8	155
13	Improved Seasonal Prediction of Temperature and Precipitation over Land in a High-Resolution GFDL Climate Model. Journal of Climate, 2015, 28, 2044-2062.	3.2	141
14	Evaluating the stationarity assumption in statistically downscaled climate projections: is past performance an indicator of future results?. Climatic Change, 2016, 135, 395-408.	3.6	119
15	Towards improved and more routine Earth system model evaluation in CMIP. Earth System Dynamics, 2016, 7, 813-830.	7.1	74
16	Seasonal Predictability of Extratropical Storm Tracks in GFDLâ€™s High-Resolution Climate Prediction Model. Journal of Climate, 2015, 28, 3592-3611.	3.2	71
17	Initialization of an ENSO Forecast System Using a Parallelized Ensemble Filter. Monthly Weather Review, 2005, 133, 3176-3201.	1.4	62
18	Coupling technologies for Earth System Modelling. Geoscientific Model Development, 2012, 5, 1589-1596.	3.6	62

#	Article	IF	Citations
19	Requirements for a global data infrastructure in support of CMIP6. Geoscientific Model Development, 2018, 11, 3659-3680.	3.6	62
20	CPMIP: measurements of real computational performance of Earth system models in CMIP6. Geoscientific Model Development, 2017, 10, 19-34.	3.6	41
21	Bridging observations, theory and numerical simulation of the ocean using machine learning. Environmental Research Letters, 2021, 16, 073008.	5.2	40
22	A Global Repository for Planet-Sized Experiments and Observations. Bulletin of the American Meteorological Society, 2016, 97, 803-816.	3.3	31
23	Earth system curator: metadata infrastructure for climate modeling. Earth Science Informatics, 2008, 1, 131-149.	3.2	30
24	The Exchange Grid. , 2006, , 179-186.		26
25	Documenting Climate Models and Their Simulations. Bulletin of the American Meteorological Society, 2013, 94, 623-627.	3.3	20
26	The Earth System Grid Federation: Delivering globally accessible petascale data for CMIP5. Proceedings of the Asia-Pacific Advanced Network, 2013, 32, 121.	0.3	19
27	Coarse-grained component concurrency in Earth system modeling: parallelizing atmospheric radiative transfer in the GFDL AM3 model using the Flexible Modeling System coupling framework. Geoscientific Model Development, 2016, 9, 3605-3616.	3.6	17
28	Climbing down Charneyâ€™s ladder: machine learning and the post-Dennard era of computational climate science. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200085.	3.4	16
29	Describing Earth system simulations with the Metafor CIM. Geoscientific Model Development, 2012, 5, 1493-1500.	3.6	15
30	The Flexible Modeling System. SpringerBriefs in Earth System Sciences, 2012, , 33-41.	0.1	13
31	Climate Computing: The State of Play. Computing in Science and Engineering, 2015, 17, 9-13.	1.2	12
32	Development and exploitation of a controlled vocabulary in support of climate modelling. Geoscientific Model Development, 2014, 7, 479-493.	3.6	11
33	Scientific computing in the age of complexity. Xrds, 2013, 19, 12-17.	0.3	9
34	PARALLEL NUMERICAL KERNELS FOR CLIMATE MODELS. , 2001, , .		9
35	Can we obtain viable alternatives to Manningâ€™s equation using genetic programming?. Artificial Intelligence Research, 2015, 5, .	0.3	2
36	The METAFOR project. , 2010, , .		2