

Venkatramani Balaji

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

5,695
citations

279798

23
h-index

395702

33
g-index

55
all docs

55
docs citations

55
times ranked

7080
citing authors

#	ARTICLE	IF	CITATIONS
1	Climbing down Charney's ladder: machine learning and the post-Dennard era of computational climate science. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200085.	3.4	16
2	Bridging observations, theory and numerical simulation of the ocean using machine learning. <i>Environmental Research Letters</i> , 2021, 16, 073008.	5.2	40
3	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	3.8	277
4	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3167-3211.	3.8	195
5	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	3.8	242
6	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 735-769.	3.8	185
7	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 691-734.	3.8	155
8	Requirements for a global data infrastructure in support of CMIP6. <i>Geoscientific Model Development</i> , 2018, 11, 3659-3680.	3.6	62
9	Eutrophication will increase during the 21st century as a result of precipitation changes. <i>Science</i> , 2017, 357, 405-408.	12.6	664
10	The Art and Science of Climate Model Tuning. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 589-602.	3.3	343
11	CPMIP: measurements of real computational performance of Earth system models in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 19-34.	3.6	41
12	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016, 9, 3231-3296.	3.6	223
13	Towards improved and more routine Earth system model evaluation in CMIP. <i>Earth System Dynamics</i> , 2016, 7, 813-830.	7.1	74
14	Coarse-grained component concurrency in Earth system modeling: parallelizing atmospheric radiative transfer in the GFDL AM3 model using the Flexible Modeling System coupling framework. <i>Geoscientific Model Development</i> , 2016, 9, 3605-3616.	3.6	17
15	A Global Repository for Planet-Sized Experiments and Observations. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 803-816.	3.3	31
16	Evaluating the stationarity assumption in statistically downscaled climate projections: is past performance an indicator of future results?. <i>Climatic Change</i> , 2016, 135, 395-408.	3.6	119
17	Can we obtain viable alternatives to Manning's equation using genetic programming?. <i>Artificial Intelligence Research</i> , 2015, 5, .	0.3	2
18	Climate Computing: The State of Play. <i>Computing in Science and Engineering</i> , 2015, 17, 9-13.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Seasonal Predictability of Extratropical Storm Tracks in GFDL's High-Resolution Climate Prediction Model. <i>Journal of Climate</i> , 2015, 28, 3592-3611.	3.2	71
20	Improved Seasonal Prediction of Temperature and Precipitation over Land in a High-Resolution GFDL Climate Model. <i>Journal of Climate</i> , 2015, 28, 2044-2062.	3.2	141
21	Development and exploitation of a controlled vocabulary in support of climate modelling. <i>Geoscientific Model Development</i> , 2014, 7, 479-493.	3.6	11
22	On the Seasonal Forecasting of Regional Tropical Cyclone Activity. <i>Journal of Climate</i> , 2014, 27, 7994-8016.	3.2	340
23	Documenting Climate Models and Their Simulations. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 623-627.	3.3	20
24	Scientific computing in the age of complexity. <i>Xrds</i> , 2013, 19, 12-17.	0.3	9
25	The Earth System Grid Federation: Delivering globally accessible petascale data for CMIP5. <i>Proceedings of the Asia-Pacific Advanced Network</i> , 2013, 32, 121.	0.3	19
26	Describing Earth system simulations with the Metafor CIM. <i>Geoscientific Model Development</i> , 2012, 5, 1493-1500.	3.6	15
27	Coupling technologies for Earth System Modelling. <i>Geoscientific Model Development</i> , 2012, 5, 1589-1596.	3.6	62
28	Simulated Climate and Climate Change in the GFDL CM2.5 High-Resolution Coupled Climate Model. <i>Journal of Climate</i> , 2012, 25, 2755-2781.	3.2	454
29	The Flexible Modeling System. <i>SpringerBriefs in Earth System Sciences</i> , 2012, , 33-41.	0.1	13
30	The METAFOR project. , 2010, , .		2
31	Earth system curator: metadata infrastructure for climate modeling. <i>Earth Science Informatics</i> , 2008, 1, 131-149.	3.2	30
32	The Exchange Grid. , 2006, , 179-186.		26
33	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
34	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
35	Initialization of an ENSO Forecast System Using a Parallelized Ensemble Filter. <i>Monthly Weather Review</i> , 2005, 133, 3176-3201.	1.4	62
36	PARALLEL NUMERICAL KERNELS FOR CLIMATE MODELS. , 2001, , .		9