

Sophie Valcke

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,970
citations

279798

23
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

5441
citing authors

#	ARTICLE	IF	CITATIONS
1	The CNRM-CM5.1 global climate model: description and basic evaluation. <i>Climate Dynamics</i> , 2013, 40, 2091-2121.	3.8	1,008
2	Evaluation of CMIP6 DECK Experiments With CNRMâ€œCM6â€œ1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2177-2213.	3.8	494
3	The OASIS3 coupler: a European climate modelling community software. <i>Geoscientific Model Development</i> , 2013, 6, 373-388.	3.6	360
4	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. <i>Ocean Modelling</i> , 2014, 73, 76-107.	2.4	320
5	Evaluation of CNRM Earth System Model, CNRMâ€œESM2â€œ1: Role of Earth System Processes in Presentâ€œDay and Future Climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4182-4227.	3.8	309
6	Development and performance of a new version of the OASIS coupler, OASIS3-MCT_3.0. <i>Geoscientific Model Development</i> , 2017, 10, 3297-3308.	3.6	183
7	Impact of Model Resolution on Tropical Cyclone Simulation Using the HighResMIPâ€œPRIMAVERA Multimodel Ensemble. <i>Journal of Climate</i> , 2020, 33, 2557-2583.	3.2	141
8	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. <i>Ocean Modelling</i> , 2016, 97, 65-90.	2.4	131
9	Projected Future Changes in Tropical Cyclones Using the CMIP6 HighResMIP Multimodel Ensemble. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088662.	4.0	119
10	An assessment of global and regional sea level for years 1993â€œ2007 in a suite of interannual CORE-II simulations. <i>Ocean Modelling</i> , 2014, 78, 35-89.	2.4	106
11	OASIS4 â€œ a coupling software for next generation earth system modelling. <i>Geoscientific Model Development</i> , 2010, 3, 87-104.	3.6	86
12	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part III: Hydrography and fluxes. <i>Ocean Modelling</i> , 2016, 100, 141-161.	2.4	81
13	Impact of Higher Spatial Atmospheric Resolution on Precipitation Extremes Over Land in Global Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032184.	3.3	69
14	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. <i>Ocean Modelling</i> , 2016, 99, 110-132.	2.4	64
15	Coupling technologies for Earth System Modelling. <i>Geoscientific Model Development</i> , 2012, 5, 1589-1596.	3.6	62
16	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part II: Liquid freshwater. <i>Ocean Modelling</i> , 2016, 99, 86-109.	2.4	58
17	Model of the Regional Coupled Earth system (MORCE): Application to process and climate studies in vulnerable regions. <i>Environmental Modelling and Software</i> , 2012, 35, 1-18.	4.5	57
18	SURFEX v8.0 interface with OASIS3-MCT to couple atmosphere with hydrology, ocean, waves and sea-ice models, from coastal to global scales. <i>Geoscientific Model Development</i> , 2017, 10, 4207-4227.	3.6	50

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19	Crossing the chasm: how to develop weather and climate models for next generation computers?. Geoscientific Model Development, 2018, 11, 1799-1821.	3.6	50
20	Simulation des changements climatiques au cours du XXI ^e siècle incluant l'ozone stratosphérique. Comptes Rendus - Geoscience, 2002, 334, 147-154.	1.2	40
21	North and equatorial Pacific Ocean circulation in the CORE-II hindcast simulations. Ocean Modelling, 2016, 104, 143-170.	2.4	32
22	On the Variability of the Thermohaline Circulation in the GFDL Coupled Model. Journal of Climate, 1998, 11, 759-767.	3.2	29
23	Transient CO ₂ Experiment using the ARPEGE/OPAICE non flux corrected coupled model. Geophysical Research Letters, 1998, 25, 2277-2280.	4.0	25
24	An assessment of the Indian Ocean mean state and seasonal cycle in a suite of interannual CORE-II simulations. Ocean Modelling, 2020, 145, 101503.	2.4	20
25	Describing Earth system simulations with the Metafor CIM. Geoscientific Model Development, 2012, 5, 1493-1500.	3.6	15
26	Tropical Cyclone Integrated Kinetic Energy in an Ensemble of HighResMIP Simulations. Geophysical Research Letters, 2021, 48, e2020GL090963.	4.0	13
27	Development and exploitation of a controlled vocabulary in support of climate modelling. Geoscientific Model Development, 2014, 7, 479-493.	3.6	11
28	Decadal prediction skill using a high-resolution climate model. Climate Dynamics, 2017, 49, 3527-3550.	3.8	9
29	Tracking Changes in Climate Sensitivity in CNRM Climate Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002190.	3.8	7
30	Sharing Experiences and Outlook on Coupling Technologies for Earth System Models. Bulletin of the American Meteorological Society, 2016, 97, ES53-ES56.	3.3	6
31	Second Workshop on Coupling Technologies for Earth System Models. Bulletin of the American Meteorological Society, 2014, 95, ES34-ES38.	3.3	4
32	A Schwarz iterative method to evaluate ocean-atmosphere coupling schemes: implementation and diagnostics in IPSL-CM6-SW-VLR. Geoscientific Model Development, 2021, 14, 2959-2975.	3.6	3
33	Benchmarking Regridding Libraries Used in Earth System Modelling. Mathematical and Computational Applications, 2022, 27, 31.	1.3	3
34	High-Performance Computing for Climate Modeling. Bulletin of the American Meteorological Society, 2014, 95, ES97-ES100.	3.3	2