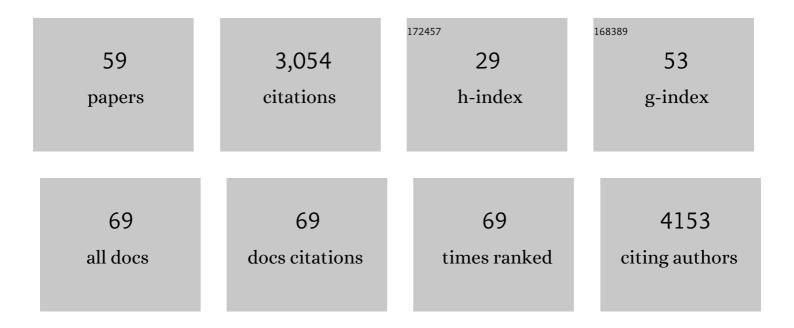
## **Romain Roehrig**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Assessment of the sea surface temperature diurnal cycle in CNRM-CM6-1 based on its 1D coupled configuration. Geoscientific Model Development, 2022, 15, 3347-3370.	3.6	1
2	Investigating Parametric Dependence of Climate Feedbacks in the Atmospheric Component of CNRM M6â€1. Geophysical Research Letters, 2022, 49, .	4.0	2
3	Lowâ€Level Marine Tropical Clouds in Six CMIP6 Models Are Too Few, Too Bright but Also Too Compact and Too Homogeneous. Geophysical Research Letters, 2022, 49, .	4.0	12
4	Evaluating Climate Models with the CLIVAR 2020 ENSO Metrics Package. Bulletin of the American Meteorological Society, 2021, 102, E193-E217.	3.3	93
5	Processâ€Based Climate Model Development Harnessing Machine Learning: I. A Calibration Tool for Parameterization Improvement. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002217.	3.8	32
6	Representation by two climate models of the dynamical and diabatic processes involved in the development of an explosively deepening cyclone during NAWDEX. Weather and Climate Dynamics, 2021, 2, 233-253.	3.5	5
7	Modeling the GABLS4 Stronglyâ€Stable Boundary Layer With a GCM Turbulence Parameterization: Parametric Sensitivity or Intrinsic Limits?. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002269.	3.8	4
8	Characterizing Convection Schemes Using Their Responses to Imposed Tendency Perturbations. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002461.	3.8	6
9	Sahelian Heat Wave Characterization From Observational Data Sets. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034465.	3.3	2
10	Tracking Changes in Climate Sensitivity in CNRM Climate Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002190.	3.8	7
11	Processâ€Based Climate Model Development Harnessing Machine Learning: II. Model Calibration From Single Column to Global. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002225.	3.8	18
12	High sensitivity of tropical precipitation to local sea surface temperature. Nature, 2021, 589, 408-414.	27.8	24
13	Historically-based run-time bias corrections substantially improve model projections of 100 years of future climate change. Communications Earth & Environment, 2020, 1, .	6.8	10
14	Clouds and Convective Selfâ€Aggregation in a Multimodel Ensemble of Radiativeâ€Convective Equilibrium Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002138.	3.8	86
15	The CNRM Global Atmosphere Model ARPEGEâ€Climat 6.3: Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002075.	3.8	46
16	The April 2010 North African heatwave: when the water vapor greenhouse effect drives nighttime temperatures. Climate Dynamics, 2020, 54, 3879-3905.	3.8	10
17	Drivers of the enhanced decline of land near-surface relative humidity to abrupt 4xCO2 in CNRM-CM6-1. Climate Dynamics, 2020, 55, 1613-1629.	3.8	10
18	Robustness and drivers of the Northern Hemisphere extratropical atmospheric circulation response to a CO\$\$_2\$\$-induced warming in CNRM-CM6-1. Climate Dynamics, 2020, 54, 2267-2285.	3.8	5

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19	Presentâ€Day and Historical Aerosol and Ozone Characteristics in CNRM CMIP6 Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001816.	3.8	36
20	Mesoâ€scale contribution to air–sea turbulent fluxes at GCM scale. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2466-2495.	2.7	7
21	Direct and semi-direct radiative forcing of biomass-burning aerosols over the southeast AtlanticÂ(SEA) and its sensitivity to absorbing properties: a regional climate modeling study. Atmospheric Chemistry and Physics, 2020, 20, 13191-13216.	4.9	49
22	Modulation of radiative aerosols effects by atmospheric circulation over the Euro-Mediterranean region. Atmospheric Chemistry and Physics, 2020, 20, 8315-8349.	4.9	54
23	Competition Between Atmospheric and Surface Parameterizations for the Control of Airâ€Sea Latent Heat Fluxes in Two Singleâ€Column Models. Geophysical Research Letters, 2019, 46, 7780-7789.	4.0	2
24	Evaluation of CNRM Earth System Model, CNRMâ€ESM2â€1: Role of Earth System Processes in Presentâ€Day and Future Climate. Journal of Advances in Modeling Earth Systems, 2019, 11, 4182-4227.	3.8	309
25	Impact of humidity biases on light precipitation occurrence: observations versus simulations. Atmospheric Chemistry and Physics, 2019, 19, 1471-1490.	4.9	12
26	Simulation of the transport, vertical distribution, optical properties and radiative impact of smoke aerosols with the ALADIN regional climate model during the ORACLES-2016 and LASIC experiments. Atmospheric Chemistry and Physics, 2019, 19, 4963-4990.	4.9	25
27	Evaluation of CMIP6 DECK Experiments With CNRMâ€CM6â€1. Journal of Advances in Modeling Earth Systems, 2019, 11, 2177-2213.	3.8	494
28	Evaluating Marine Stratocumulus Clouds in the CNRM M6â€1 Model Using Shortâ€Term Hindcasts. Journal of Advances in Modeling Earth Systems, 2019, 11, 127-148.	3.8	19
29	CAUSES: Attribution of Surface Radiation Biases in NWP and Climate Models near the U.S. Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3612-3644.	3.3	62
30	Detection of Intraseasonal Large-Scale Heat Waves: Characteristics and Historical Trends during the Sahelian Spring. Journal of Climate, 2018, 31, 61-80.	3.2	29
31	Singleâ€Column Modeling of Convection During the CINDY2011/DYNAMO Field Campaign With the CNRM Climate Model Version 6. Journal of Advances in Modeling Earth Systems, 2018, 10, 578-602.	3.8	8
32	Introduction to CAUSES: Description of Weather and Climate Models and Their Nearâ€Surface Temperature Errors in 5Âday Hindcasts Near the Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2655-2683.	3.3	53
33	An interactive ocean surface albedo scheme (OSAv1.0): formulation and evaluation in ARPEGE-Climat (V6.1) and LMDZ (V5A). Geoscientific Model Development, 2018, 11, 321-338.	3.6	24
34	Process-level improvements in CMIP5 models and their impact on tropical variability, the Southern Ocean, and monsoons. Earth System Dynamics, 2018, 9, 33-67.	7.1	13
35	CAUSES: On the Role of Surface Energy Budget Errors to the Warm Surface Air Temperature Error Over the Central United States. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2888-2909.	3.3	60
36	A multiâ€scale analysis of the extreme rain event of Ouagadougou in 2009. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 3094-3109.	2.7	37

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37	Examining the <scp>W</scp> est <scp>A</scp> frican <scp>M</scp> onsoon circulation response to atmospheric heating in a <scp>GCM</scp> dynamical core. Journal of Advances in Modeling Earth Systems, 2017, 9, 149-167.	3.8	6
38	Understanding the <scp>W</scp> est <scp>A</scp> frican <scp>M</scp> onsoon from the analysis of diabatic heating distributions as simulated by climate models. Journal of Advances in Modeling Earth Systems, 2017, 9, 239-270.	3.8	10
39	ESMValTool (v1.0) – a community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP. Geoscientific Model Development, 2016, 9, 1747-1802.	3.6	127
40	Coupling between lowerâ€tropospheric convective mixing and lowâ€level clouds: Physical mechanisms and dependence on convection scheme. Journal of Advances in Modeling Earth Systems, 2016, 8, 1892-1911.	3.8	66
41	The tropical rain belts with an annual cycle and a continent model intercomparison project: TRACMIP. Journal of Advances in Modeling Earth Systems, 2016, 8, 1868-1891.	3.8	47
42	Interâ€model comparison of subseasonal tropical variability in aquaplanet experiments: Effect of a warm pool. Journal of Advances in Modeling Earth Systems, 2016, 8, 1526-1551.	3.8	14
43	Robustness, uncertainties, and emergent constraints in the radiative responses of stratocumulus cloud regimes to future warming. Climate Dynamics, 2016, 46, 3025-3039.	3.8	31
44	The impact of parametrized convection on cloud feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140414.	3.4	63
45	Vertical structure and physical processes of the Maddenâ€Julian Oscillation: Biases and uncertainties at short range. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4749-4763.	3.3	26
46	Representation of daytime moist convection over the semiâ€arid Tropics by parametrizations used in climate and meteorological models. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2220-2236.	2.7	23
47	A singleâ€column model intercomparison on the stratocumulus representation in presentâ€day and future climate. Journal of Advances in Modeling Earth Systems, 2015, 7, 617-647.	3.8	33
48	Internal processes within the African Easterly Wave system. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1121-1136.	2.7	21
49	Vertical structure and physical processes of the Maddenâ€Julian oscillation: Linking hindcast fidelity to simulated diabatic heating and moistening. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4690-4717.	3.3	63
50	Radiative flux and forcing parameterization error in aerosolâ€free clear skies. Geophysical Research Letters, 2015, 42, 5485-5492.	4.0	57
51	The diurnal cycle of marine cloud feedback in climate models. Climate Dynamics, 2015, 44, 1419-1436.	3.8	18
52	Are atmospheric biases responsible for the tropical Atlantic SST biases in the CNRM-CM5 coupled model?. Climate Dynamics, 2014, 43, 2963-2984.	3.8	33
53	LMDZ5B: the atmospheric component of the IPSL climate model with revisited parameterizations for clouds and convection. Climate Dynamics, 2013, 40, 2193-2222.	3.8	256
54	Control of deep convection by sub-cloud lifting processes: the ALP closure in the LMDZ5B general circulation model. Climate Dynamics, 2013, 40, 2271-2292.	3.8	59

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55	West African Monsoon Intraseasonal Variability: A Precipitable Water Perspective. Journals of the Atmospheric Sciences, 2013, 70, 1035-1052.	1.7	19
56	The Present and Future of the West African Monsoon: A Process-Oriented Assessment of CMIP5 Simulations along the AMMA Transect. Journal of Climate, 2013, 26, 6471-6505.	3.2	189
57	Intraseasonal variability of the West African monsoon. Atmospheric Science Letters, 2011, 12, 58-66.	1.9	87
58	10–25-Day Intraseasonal Variability of Convection over the Sahel: A Role of the Saharan Heat Low and Midlatitudes. Journal of Climate, 2011, 24, 5863-5878.	3.2	40
59	Intraseasonal Variability of the Saharan Heat Low and Its Link with Midlatitudes. Journal of Climate, 2010, 23, 2544-2561.	3.2	79