Z R J Nicholls

List of Publications by Year
in descending order

22 papers	1,934 citations	623188 14 h-index	794141 19 g-index
45 all docs	45 docs citations	45 times ranked	1952 citing authors

#	Article	IF	Citations
1	GWP*is a model, not a metric. Environmental Research Letters, 2022, 17, 041002.	2.2	16
2	From emission scenarios to spatially resolved projections with a chain of computationally efficient emulators: coupling of MAGICC (v7.5.1) and MESMER (v0.8.3). Geoscientific Model Development, 2022, 15, 2085-2103.	1.3	12
3	Realization of Paris Agreement pledges may limit warming just below 2â€‰Â°C. Nature, 2022, 604, 304-309.	13.7	242
4	Multi-century dynamics of the climate and carbon cycle under both high and net negative emissions scenarios. Earth System Dynamics, 2022, 13, 885-909.	2.7	17
5	Carbon removals from nature restoration are no substitute for steep emission reductions. One Earth, 2022, 5, 812-824.	3.6	17
6	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	2.7	236
7	FaIRv2.0.0: a generalized impulse response model for climate uncertainty and future scenario exploration. Geoscientific Model Development, 2021, 14, 3007-3036.	1.3	34
8	OpenSCM Two Layer Model: A Python implementation of the two-layer climate model. Journal of Open Source Software, 2021, 6, 2766.	2.0	1
9	Reduced Complexity Model Intercomparison Project Phase 2: Synthesizing Earth System Knowledge for Probabilistic Climate Projections. Earth's Future, 2021, 9, e2020EF001900.	2.4	28
10	Can updated climate pledges limit warming well below 2Â°C?. Science, 2021, 374, 693-695.	6.0	80
11	Dynamic modelling shows substantial contribution of ecosystem restoration to climate change mitigation. Environmental Research Letters, 2021, 16, 124061.	2.2	8
12	Opportunities and challenges in using remaining carbon budgets to guide climate policy. Nature Geoscience, 2020, 13, 769-779.	5.4	68
13	Implications of non-linearities between cumulative CO₂ emissions and CO₂-induced warming for assessing the remaining carbon budget. Environmental Research Letters, 2020, 15, 074017.	2.2	9
14	The shared socio-economic pathway (SSP) greenhouse gas concentrations and their extensions to 2500. Geoscientific Model Development, 2020, 13, 3571-3605.	1.3	539
15	Reduced Complexity Model Intercomparison Project Phase 1: introduction and evaluation of global-mean temperature response. Geoscientific Model Development, 2020, 13, 5175-5190.	1.3	70
16	Silicone v1.0.0: an open-source Python package for inferring missing emissions data for climate change research. Geoscientific Model Development, 2020, 13, 5259-5275.	1.3	24
17	A new scenario logic for the Paris Agreement long-term temperature goal. Nature, 2019, 573, 357-363.	13.7	307
18	Cloud, precipitation and radiation responses to large perturbations in global dimethyl sulfide. Atmospheric Chemistry and Physics, 2018, 18, 10177-10198.	1.9	34

#	Article	IF	Citations
19	A modified impulse-response representation of the global near-surface air temperature and atmospheric concentration response to carbon dioxide emissions. Atmospheric Chemistry and Physics, 2017, 17, 7213-7228.	1.9	120
20	Regionally aggregated, stitched and deâ€drifted CMIPâ€climate data, processed with netCDFâ€SCM v2.0.0. Geoscience Data Journal, 0, , .	1.8	8
21	pyam: Analysis and visualisation of integrated assessment and macro-energy scenarios. Open Research Europe, 0, 1, 74.	2.0	2
22	pyam: Analysis and visualisation of integrated assessment and macro-energy scenarios. Open Research Europe, 0, 1, 74.	2.0	15