

Philip Goodwin

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

973
citations

394421

19
h-index

454955

30
g-index

48
all docs

48
docs citations

48
times ranked

1381
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity of climate to cumulative carbon emissions due to compensation of ocean heat and carbon uptake. <i>Nature Geoscience</i> , 2015, 8, 29-34.	12.9	85
2	Pathways to 1.5 °C and 2 °C warming based on observational and geological constraints. <i>Nature Geoscience</i> , 2018, 11, 102-107.	12.9	84
3	Stabilization of global temperature at 1.5°C and 2.0°C: implications for coastal areas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20160448.	3.4	76
4	Quantifying Land and People Exposed to Sea-Level Rise with No Mitigation and 1.5°C and 2.0°C Rise in Global Temperatures to Year 2300. <i>Earth's Future</i> , 2018, 6, 583-600.	6.3	73
5	Reduced Complexity Model Intercomparison Project Phase 1: introduction and evaluation of global-mean temperature response. <i>Geoscientific Model Development</i> , 2020, 13, 5175-5190.	3.6	70
6	Ocean-atmosphere partitioning of anthropogenic carbon dioxide on centennial timescales. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	49
7	A new approach to projecting 21st century sea-level changes and extremes. <i>Earth's Future</i> , 2017, 5, 240-253.	6.3	46
8	Climate sensitivity to the carbon cycle modulated by past and future changes in ocean chemistry. <i>Nature Geoscience</i> , 2009, 2, 145-150.	12.9	43
9	A record of Neogene seawater $\delta^{13}C$ reconstructed from paired $\delta^{13}C$ analyses on benthic and planktic foraminifera. <i>Climate of the Past</i> , 2017, 13, 149-170.	3.4	43
10	Sensitivity of Global Warming to Carbon Emissions: Effects of Heat and Carbon Uptake in a Suite of Earth System Models. <i>Journal of Climate</i> , 2017, 30, 9343-9363.	3.2	43
11	Adjusting Mitigation Pathways to Stabilize Climate at 1.5°C and 2.0°C Rise in Global Temperatures to Year 2300. <i>Earth's Future</i> , 2018, 6, 601-615.	6.3	32
12	A framework to understand the transient climate response to emissions. <i>Environmental Research Letters</i> , 2016, 11, 015003.	5.2	27
13	How warming and steric sea level rise relate to cumulative carbon emissions. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	26
14	Analytical relationships between atmospheric carbon dioxide, carbon emissions, and ocean processes. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	25
15	On the Time Evolution of Climate Sensitivity and Future Warming. <i>Earth's Future</i> , 2018, 6, 1336-1348.	6.3	25
16	Quantifying the feedback between ocean heating and CO ₂ solubility as an equivalent carbon emission. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	24
17	Global costs of protecting against sea-level rise at 1.5 to 4.0°C. <i>Climatic Change</i> , 2021, 167, 1.	3.6	24
18	Ocean-atmosphere partitioning of anthropogenic carbon dioxide on multimillennial timescales. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	23

#	ARTICLE	IF	CITATIONS
19	How historic simulationâ€œobservation discrepancy affects future warming projections in a very large model ensemble. <i>Climate Dynamics</i> , 2016, 47, 2219-2233.	3.8	21
20	Drivers of Continued Surface Warming After Cessation of Carbon Emissions. <i>Geophysical Research Letters</i> , 2017, 44, 10,633.	4.0	18
21	Observational constraints on the causes of Holocene CO ₂ change. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	15
22	Reconciling Atmospheric and Oceanic Views of the Transient Climate Response to Emissions. <i>Geophysical Research Letters</i> , 2018, 45, 6205-6214.	4.0	14
23	Carbon-Cycle Feedbacks Operating in the Climate System. <i>Current Climate Change Reports</i> , 2019, 5, 282-295.	8.6	14
24	Quantifying risks avoided by limiting global warming to 1.5 or 2Â°C above pre-industrial levels. <i>Climatic Change</i> , 2022, 172, .	3.6	11
25	The Effect of Ocean Ventilation on the Transient Climate Response to Emissions. <i>Journal of Climate</i> , 2019, 32, 5085-5105.	3.2	10
26	Multiple regimes of airâ€œsea carbon partitioning identified from constantâ€œalkalinity buffer factors. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	9
27	Carbonate ion concentrations, ocean carbon storage, and atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2013, 27, 882-893.	4.9	8
28	Climate Sensitivity From Both Physical and Carbon Cycle Feedbacks. <i>Geophysical Research Letters</i> , 2019, 46, 7554-7564.	4.0	8
29	An Isopycnal Box Model with predictive deep-ocean structure for biogeochemical cycling applications. <i>Ocean Modelling</i> , 2012, 51, 19-36.	2.4	6
30	Bayesian estimation of Earth's climate sensitivity and transient climate response from observational warming and heat content datasets. <i>Earth System Dynamics</i> , 2021, 12, 709-723.	7.1	5
31	Why NH ₃ is not a candidate reagent for ambient CO ₂ fixation: A response to â€œAlternative solution to global warming arising from CO ₂ emissionsâ€œ Partial neutralization of tropospheric H ₂ CO ₃ with NH ₃ . <i>Environmental Progress</i> , 2008, 27, 412-417.	0.7	3
32	Quantifying the Terrestrial Carbon Feedback to Anthropogenic Carbon Emission. <i>Earth's Future</i> , 2019, 7, 1417-1433.	6.3	3
33	Probabilistic projections of future warming and climate sensitivity trajectories. <i>Oxford Open Climate Change</i> , 2021, 1, .	1.3	3
34	A computationally efficient method for probabilistic local warming projections constrained by history matching and pattern scaling, demonstrated by WASPâ€œLGRTC-1.0. <i>Geoscientific Model Development</i> , 2020, 13, 5389-5399.	3.6	3