Philip Goodwin

List of Publications by Year
in descending order

34 papers	973 citations	394286 19 h-index	454834 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. Nature Geoscience, 2015, 8, 29-34.	5.4	85
2	Pathways to 1.5 Â°C and 2 Â°C warming based on observational and geological constraints. Nature Geoscience, 2018, 11, 102-107.	5.4	84
3	Stabilization of global temperature at 1.5Â°C and 2.0Â°C: implications for coastal areas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160448.	1.6	76
4	Quantifying Land and People Exposed to Seaâ€Level Rise with No Mitigation and 1.5Â°C and 2.0Â°C Rise in Global Temperatures to Year 2300. Earth's Future, 2018, 6, 583-600.	2.4	73
5	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
6	Ocean-atmosphere partitioning of anthropogenic carbon dioxide on centennial timescales. Global Biogeochemical Cycles, 2007, 21, .	1.9	49
7	A new approach to projecting 21st century seaâ€level changes and extremes. Earth's Future, 2017, 5, 240-253.	2.4	46
8	Climate sensitivity to the carbon cycle modulated by past and future changes in ocean chemistry. Nature Geoscience, 2009, 2, 145-150.	5.4	43
9	A record of Neogene seawater <i>Î´</i>¹¹B reconstructed from paired <i>Î´</i>¹¹B analyses on benthic and planktic foraminifera. Climate of the Past, 2017, 13, 149-170.	1.3	43
10	Sensitivity of Global Warming to Carbon Emissions: Effects of Heat and Carbon Uptake in a Suite of Earth System Models. Journal of Climate, 2017, 30, 9343-9363.	1.2	43
11	Adjusting Mitigation Pathways to Stabilize Climate at 1.5Â°C and 2.0Â°C Rise in Global Temperatures to Year 2300. Earth's Future, 2018, 6, 601-615.	2.4	32
12	A framework to understand the transient climate response to emissions. Environmental Research Letters, 2016, 11, 015003.	2.2	27
13	How warming and steric sea level rise relate to cumulative carbon emissions. Geophysical Research Letters, 2012, 39, .	1.5	26
14	Analytical relationships between atmospheric carbon dioxide, carbon emissions, and ocean processes. Global Biogeochemical Cycles, 2008, 22, .	1.9	25
15	On the Time Evolution of Climate Sensitivity and Future Warming. Earth's Future, 2018, 6, 1336-1348.	2.4	25
16	Quantifying the feedback between ocean heating and CO₂ solubility as an equivalent carbon emission. Geophysical Research Letters, 2009, 36, .	1.5	24
17	Global costs of protecting against sea-level rise at 1.5 to 4.0ÂÂ°C. Climatic Change, 2021, 167, 1.	1.7	24
18	Oceanâ€atmosphere partitioning of anthropogenic carbon dioxide on multimillennial timescales. Global Biogeochemical Cycles, 2010, 24, .	1.9	23

#	Article	IF	Citations
19	How historic simulationâ€"observation discrepancy affects future warming projections in a very large model ensemble. Climate Dynamics, 2016, 47, 2219-2233.	1.7	21
20	Drivers of Continued Surface Warming After Cessation of Carbon Emissions. Geophysical Research Letters, 2017, 44, 10,633.	1.5	18
21	Observational constraints on the causes of Holocene CO₂change. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	15
22	Reconciling Atmospheric and Oceanic Views of the Transient Climate Response to Emissions. Geophysical Research Letters, 2018, 45, 6205-6214.	1.5	14
23	Carbon-Cycle Feedbacks Operating in the Climate System. Current Climate Change Reports, 2019, 5, 282-295.	2.8	14
24	Quantifying risks avoided by limiting global warming to 1.5 or 2ÂÂ°C above pre-industrial levels. Climatic Change, 2022, 172, .	1.7	11
25	The Effect of Ocean Ventilation on the Transient Climate Response to Emissions. Journal of Climate, 2019, 32, 5085-5105.	1.2	10
26	Multiple regimes of airâ€sea carbon partitioning identified from constantâ€alkalinity buffer factors. Global Biogeochemical Cycles, 2010, 24, .	1.9	9
27	Carbonate ion concentrations, ocean carbon storage, and atmospheric CO₂. Global Biogeochemical Cycles, 2013, 27, 882-893.	1.9	8
28	Climate Sensitivity From Both Physical and Carbon Cycle Feedbacks. Geophysical Research Letters, 2019, 46, 7554-7564.	1.5	8
29	An Isopycnal Box Model with predictive deep-ocean structure for biogeochemical cycling applications. Ocean Modelling, 2012, 51, 19-36.	1.0	6
30	Bayesian estimation of Earth's climate sensitivity and transient climate response from observational warming and heat content datasets. Earth System Dynamics, 2021, 12, 709-723.	2.7	5
31	Why NH₃ is not a candidate reagent for ambient CO₂ fixation: A response to â€œAlternative solution to global warming arising from CO₂ emissionsâ€"Partial neutralization of tropospheric H₂CO₃ with NH₃â€• Environmental Progress, 2008, 27, 412-417.	0.8	3
32	Quantifying the Terrestrial Carbon Feedback to Anthropogenic Carbon Emission. Earth's Future, 2019, 7, 1417-1433.	2.4	3
33	Probabilistic projections of future warming and climate sensitivity trajectories. Oxford Open Climate Change, 2021, 1, .	0.6	3
34	A computationally efficient method for probabilistic local warming projections constrained by history matching and pattern scaling, demonstrated by WASPâ€"LGRTC-1.0. Geoscientific Model Development, 2020, 13, 5389-5399.	1.3	3