Gian-Kasper Plattner

List of Publications by Year
in descending order

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		94269	223531
49	13,466	37	46
papers	citations	h-index	g-index

52	52	52	15230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. Nature, 2005, 437, 681-686.	13.7	3,772
2	Irreversible climate change due to carbon dioxide emissions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1704-1709.	3.3	2,294
3	Contributions of Stratospheric Water Vapor to Decadal Changes in the Rate of Global Warming. Science, 2010, 327, 1219-1223.	6.0	975
4	Carbon dioxide and climate impulse response functions for the computation of greenhouse gas metrics: a multi-model analysis. Atmospheric Chemistry and Physics, 2013, 13, 2793-2825.	1.9	517
5	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. Nature Climate Change, 2016, 6, 360-369.	8.1	442
6	Global warming feedbacks on terrestrial carbon uptake under the Intergovernmental Panel on Climate Change (IPCC) Emission Scenarios. Global Biogeochemical Cycles, 2001, 15, 891-907.	1.9	368
7	Rapid Progression of Ocean Acidification in the California Current System. Science, 2012, 337, 220-223.	6.0	353
8	Constraints on radiative forcing and future climate change from observations and climate model ensembles. Nature, 2002, 416, 719-723.	13.7	345
9	Eddy-induced reduction of biological production in eastern boundary upwelling systems. Nature Geoscience, 2011, 4, 787-792.	5.4	315
10	Global Warming and Marine Carbon Cycle Feedbacks on Future Atmospheric CO2. Science, 1999, 284, 464-467.	6.0	284
11	The IPCC AR5 guidance note on consistent treatment of uncertainties: a common approach across the working groups. Climatic Change, 2011, 108, 675-691.	1.7	259
12	Long-Term Climate Commitments Projected with Climateâ€“Carbon Cycle Models. Journal of Climate, 2008, 21, 2721-2751.	1.2	232
13	Impact of circulation on export production, dissolved organic matter, and dissolved oxygen in the ocean: Results from Phase II of the Ocean Carbonâ€cycle Model Intercomparison Project (OCMIPâ€2). Global Biogeochemical Cycles, 2007, 21, .	1.9	211
14	Evaluating global ocean carbon models: The importance of realistic physics. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	210
15	A Review of Uncertainties in Global Temperature Projections over the Twenty-First Century. Journal of Climate, 2008, 21, 2651-2663.	1.2	209
16	Evaluation of ocean model ventilation with CFC-11: comparison of 13 global ocean models. Ocean Modelling, 2002, 4, 89-120.	1.0	192
17	Probabilistic climate change projections using neural networks. Climate Dynamics, 2003, 21, 257-272.	1.7	185
18	Evaluation of ocean carbon cycle models with data-based metrics. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	168

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19	Eddy-resolving simulation of plankton ecosystem dynamics in the California Current System. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 1483-1516.	0.6	154
20	Spatiotemporal variability and long-term trends of ocean acidification in the California Current System. Biogeosciences, 2013, 10, 193-216.	1.3	152
21	Persistence of climate changes due to a range of greenhouse gases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18354-18359.	3.3	144
22	Natural variability and anthropogenic trends in oceanic oxygen in a coupled carbon cycleâ€“climate model ensemble. Global Biogeochemical Cycles, 2009, 23, .	1.9	143
23	Temperature increase of 21st century mitigation scenarios. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15258-15262.	3.3	139
24	Revision of the global carbon budget due to changing air-sea oxygen fluxes. Global Biogeochemical Cycles, 2002, 16, 43-1-43-12.	1.9	136
25	OCEAN ACIDIFICATION IN THE CALIFORNIA CURRENT SYSTEM. Oceanography, 2009, 22, 60-71.	0.5	131
26	How well do integrated assessment models simulate climate change?. Climatic Change, 2011, 104, 255-285.	1.7	127
27	Trends in marine dissolved oxygen: Implications for ocean circulation changes and the carbon budget. Eos, 2003, 84, 197.	0.1	124
28	Dominant role of eddies and filaments in the offshore transport of carbon and nutrients in the <scp>C</scp>alifornia <scp>C</scp>urrent <scp>S</scp>ystem. Journal of Geophysical Research: Oceans, 2015, 120, 5318-5341.	1.0	118
29	Feedback mechanisms and sensitivities of ocean carbon uptake under global warming. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 564-592.	0.8	114
30	The role of ocean transport in the uptake of anthropogenic CO₂. Biogeosciences, 2009, 6, 375-390.	1.3	93
31	Long-term climate implications of twenty-first century options for carbon dioxide emissionÂmitigation. Nature Climate Change, 2011, 1, 457-461.	8.1	87
32	Mapping the climate change challenge. Nature Climate Change, 2016, 6, 663-668.	8.1	75
33	Modeled natural and excess radiocarbon: Sensitivities to the gas exchange formulation and ocean transport strength. Global Biogeochemical Cycles, 2008, 22, .	1.9	70
34	Decoupling marine export production from new production. Geophysical Research Letters, 2005, 32, .	1.5	60
35	Model sensitivity in the effect of Antarctic sea ice and stratification on atmospheric pCO2. Paleoceanography, 2003, 18, n/a-n/a.	3.0	56
36	Probabilistic climate change projections for CO2stabilization profiles. Geophysical Research Letters, 2005, 32, .	1.5	53

#	Article	IF	Citations
37	Simulation of atmospheric radiocarbon during abrupt oceanic circulation changes: trying to reconcile models and reconstructions. Quaternary Science Reviews, 2003, 22, 1647-1658.	1.4	46
38	Climate policy: Rethink IPCC reports. Nature, 2014, 513, 163-165.	13.7	24
39	CO2 and non-CO2 radiative forcings in climate projections for twenty-first century mitigation scenarios. Climate Dynamics, 2009, 33, 737-749.	1.7	20
40	Uncertainty and risk in climate projections for the 21st century: comparing mitigation to non-intervention scenarios. Climatic Change, 2010, 103, 399-422.	1.7	17
41	The Future of the Thermohaline Circulation - a Perspective. Geophysical Monograph Series, 0, , 277-293.	0.1	16
42	Making use of the IPCC's powerful communication tool. Nature Climate Change, 2016, 6, 637-638.	8.1	11
43	The role of coastal zones in global biogeochemical cycles. Eos, 2004, 85, 470-470.	0.1	6
44	Tried and tested. Nature Climate Change, 2011, 1, 71-71.	8.1	6
45	Terrestrial ecosystem inertia. Nature Geoscience, 2009, 2, 467-468.	5.4	5
46	Comments on â€œWhy Hasnâ€™t Earth Warmed as Much as Expected?â€• Journal of Climate, 2012, 25, 2192-2199.	3.2	5
47	Cloud Optimized Raster Encoding (CORE): A Web-Native Streamable Format for Large Environmental Time Series. Geomatics, 2021, 1, 369-382.	1.0	2
48	Investigations towards enabling a Web-based environmental geospatial information system (Web-EGIS) in EnviDat. Abstracts of the ICA, 0, 3, 1-1.	0.0	0
49	Open Data â€“ Open Software: Implementing Geospatial Requirements in EnviDat with an Open-Source Stack. Abstracts of the ICA, 0, 3, 1-1.	0.0	0