

Thomas Gasser

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9518504/publications.pdf>

Version: 2024-02-01

46
papers

6,594
citations

201674

27
h-index

214800

47
g-index

84
all docs

84
docs citations

84
times ranked

8582
citing authors

#	ARTICLE	IF	CITATIONS
1	Historical and future perspectives of global soil carbon response to climate and land-use changes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 700.	1.6	103
2	Indicate separate contributions of long-lived and short-lived greenhouse gases in emission targets. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, 5.	6.8	36
3	Impact of bioenergy crop expansion on climate's carbon cycle feedbacks in overshoot scenarios. <i>Earth System Dynamics</i> , 2022, 13, 779-794.	7.1	8
4	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005.	9.9	663
5	How the Glasgow Declaration on Forests can help keep alive the 1.5°C target. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
6	Climate Warming Mitigation from Nationally Determined Contributions. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1217-1228.	4.3	6
7	Amplified warming from physiological responses to carbon dioxide reduces the potential of vegetation for climate change mitigation. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	13
8	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021, 8, nwaa145.	9.5	70
9	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. <i>Nature Communications</i> , 2021, 12, 118.	12.8	106
10	The contributions of individual countries and regions to the global radiative forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
11	Decadal variability in land carbon sink efficiency. <i>Carbon Balance and Management</i> , 2021, 16, 15.	3.2	6
12	Carbon Cycle Response to Temperature Overshoot Beyond 2°C: An Analysis of CMIP6 Models. <i>Earth's Future</i> , 2021, 9, e2020EF001967.	6.3	17
13	Reduced Complexity Model Intercomparison Project Phase 2: Synthesizing Earth System Knowledge for Probabilistic Climate Projections. <i>Earth's Future</i> , 2021, 9, e2020EF001900.	6.3	28
14	On the contribution of global aviation to the CO ₂ radiative forcing of climate. <i>Atmospheric Environment</i> , 2021, 267, 118762.	4.1	6
15	Global cooling induced by biophysical effects of bioenergy crop cultivation. <i>Nature Communications</i> , 2021, 12, 7255.	12.8	19
16	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. <i>Environmental Pollution</i> , 2020, 258, 113728.	7.5	10
17	Short-lived climate forcers have long-term climate impacts via the carbon-climate feedback. <i>Nature Climate Change</i> , 2020, 10, 851-855.	18.8	31
18	Historical CO ₂ emissions from land use and land cover change and their uncertainty. <i>Biogeosciences</i> , 2020, 17, 4075-4101.	3.3	112

#	ARTICLE	IF	CITATIONS
19	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
20	Reduced Complexity Model Intercomparison Project Phase 1: introduction and evaluation of global-mean temperature response. Geoscientific Model Development, 2020, 13, 5175-5190.	3.6	70
21	The contribution of carbon dioxide emissions from the aviation sector to future climate change. Environmental Research Letters, 2019, 14, 084019.	5.2	66
22	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. Nature Geoscience, 2019, 12, 809-814.	12.9	58
23	The weakening relationship between Eurasian spring snow cover and Indian summer monsoon rainfall. Science Advances, 2019, 5, eaau8932.	10.3	39
24	Increased Global Land Carbon Sink Due to Aerosol-Induced Cooling. Global Biogeochemical Cycles, 2019, 33, 439-457.	4.9	27
25	Potential feedbacks between loss of biosphere integrity and climate change. Global Sustainability, 2019, 2, .	3.3	11
26	Uncertainty in projected climate change arising from uncertain fossil-fuel emission factors. Environmental Research Letters, 2018, 13, 044017.	5.2	19
27	How to spend a dwindling greenhouse gas budget. Nature Climate Change, 2018, 8, 7-10.	18.8	119
28	Analysis of slight precipitation in China during the past decades and its relationship with advanced very high radiometric resolution normalized difference vegetation index. International Journal of Climatology, 2018, 38, 5563-5575.	3.5	2
29	Analytically tractable climate-carbon cycle feedbacks under 21st century anthropogenic forcing. Earth System Dynamics, 2018, 9, 507-523.	7.1	9
30	Path-dependent reductions in CO2 emission budgets caused by permafrost carbon release. Nature Geoscience, 2018, 11, 830-835.	12.9	86
31	Gross changes in forest area shape the future carbon balance of tropical forests. Biogeosciences, 2018, 15, 91-103.	3.3	3
32	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
33	Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. Nature Geoscience, 2017, 10, 79-84.	12.9	284
34	Accounting for the climate-carbon feedback in emission metrics. Earth System Dynamics, 2017, 8, 235-253.	7.1	71
35	The compact Earth system model OSCARv2.2: description and first results. Geoscientific Model Development, 2017, 10, 271-319.	3.6	49
36	Re-evaluating the 1940s CO ₂ plateau. Biogeosciences, 2016, 13, 4877-4897.	3.3	22

#	ARTICLE	IF	CITATIONS
37	Simulating the Earth system response to negative emissions. <i>Environmental Research Letters</i> , 2016, 11, 095012.	5.2	98
38	Enhancing life cycle impact assessment from climate science: Review of recent findings and recommendations for application to LCA. <i>Ecological Indicators</i> , 2016, 71, 163-174.	6.3	108
39	Bridging the gap between impact assessment methods and climate science. <i>Environmental Science and Policy</i> , 2016, 64, 129-140.	4.9	69
40	Biophysical and economic limits to negative CO ₂ emissions. <i>Nature Climate Change</i> , 2016, 6, 42-50.	18.8	973
41	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016, 531, 357-361.	27.8	214
42	Negative emissions physically needed to keep global warming below 2°C. <i>Nature Communications</i> , 2015, 6, 7958.	12.8	265
43	The declining uptake rate of atmospheric CO ₂ by land and ocean sinks. <i>Biogeosciences</i> , 2014, 11, 3453-3475.	3.3	62
44	Linearity between temperature peak and bioenergy CO ₂ emission rates. <i>Nature Climate Change</i> , 2014, 4, 983-987.	18.8	33
45	Attributing the increase in atmospheric CO ₂ to emitters and absorbers. <i>Nature Climate Change</i> , 2013, 3, 926-930.	18.8	63
46	A theoretical framework for the net land-to-atmosphere CO ₂ flux and its implications in the definition of "emissions from land-use change". <i>Earth System Dynamics</i> , 2013, 4, 171-186.	7.1	74