Ricarda Winkelmann

List of Publications by Year
in descending order

54 papers	6,166 citations	136950 32 h-index	168389 53 g-index
130 all docs	130 docs citations	130 times ranked	6277 citing authors

#	Article	IF	Citations
1	Social tipping processes towards climate action: A conceptual framework. Ecological Economics, 2022, 192, 107242.	5.7	47
2	Sea-Level Rise: From Global Perspectives to Local Services. Frontiers in Marine Science, 2022, 8, .	2.5	33
3	Shear-margin melting causes stronger transient ice discharge than ice-stream melting in idealized simulations. Cryosphere, 2022, 16, 1927-1940.	3.9	6
4	Stabilizing effect of mÃ©lange buttressing on the marine ice-cliff instability of the West Antarctic Ice Sheet. Cryosphere, 2022, 16, 1979-1996.	3.9	2
5	The tipping points and early warning indicators for Pine Island Glacier, West Antarctica. Cryosphere, 2021, 15, 1501-1516.	3.9	42
6	Identifying a Safe and Just Corridor for People and the Planet. Earth's Future, 2021, 9, e2020EF001866.	6.3	84
7	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	27.8	200
8	Coupling framework (1.0) for the PISM (1.1.4) ice sheet model and the MOM5 (5.1.0) ocean model via the PICO ice shelf cavity model in an Antarctic domain. Geoscientific Model Development, 2021, 14, 3697-3714.	3.6	10
9	Impact of an AMOC weakening on the stability of the southern Amazon rainforest. European Physical Journal: Special Topics, 2021, 230, 3065-3073.	2.6	15
10	Interacting tipping elements increase risk of climate domino effects under global warming. Earth System Dynamics, 2021, 12, 601-619.	7.1	227
11	Modelling nonlinear dynamics of interacting tipping elements on complex networks: the PyCascades package. European Physical Journal: Special Topics, 2021, 230, 3163-3176.	2.6	8
12	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. Geophysical Research Letters, 2021, 48, e2020GL091741.	4.0	28
13	Ten new insights in climate science 2021: a horizon scan. Global Sustainability, 2021, 4, .	3.3	26
14	What do we mean, â€˜tipping cascadeâ€™?. Environmental Research Letters, 2021, 16, 125011.	5.2	19
15	Impact of the meltâ€“albedo feedback on the future evolution of the Greenland Ice Sheet with PISM-dEBM-simple. Cryosphere, 2021, 15, 5739-5764.	3.9	11
16	Global warming due to loss of large ice masses and Arctic summer sea ice. Nature Communications, 2020, 11, 5177.	12.8	67
17	The hysteresis of the Antarctic Ice Sheet. Nature, 2020, 585, 538-544.	27.8	115
18	Emergence of cascading dynamics in interacting tipping elements of ecology and climate. Royal Society Open Science, 2020, 7, 200599.	2.4	37

#	Article	IF	Citations
19	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). Journal of Glaciology, 2020, 66, 891-904.	2.2	70
20	Glacial-cycle simulations of the Antarctic Ice Sheet with the Parallel Ice Sheet Model (PISM) â€“ Part 1: Boundary conditions and climatic forcing. Cryosphere, 2020, 14, 599-632.	3.9	37
21	Glacial-cycle simulations of the Antarctic Ice Sheet with the Parallel Ice Sheet Model (PISM) â€“ Part 2: Parameter ensemble analysis. Cryosphere, 2020, 14, 633-656.	3.9	37
22	Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). Earth System Dynamics, 2020, 11, 35-76.	7.1	92
23	Dynamics of tipping cascades on complex networks. Physical Review E, 2020, 101, 042311.	2.1	24
24	How motifs condition critical thresholds for tipping cascades in complex networks: Linking micro- to macro-scales. Chaos, 2020, 30, 043129.	2.5	18
25	Basin stability and limit cycles in a conceptual model for climate tipping cascades. New Journal of Physics, 2020, 22, 123031.	2.9	13
26	An early-warning indicator for Amazon droughts exclusively based on tropical Atlantic sea surface temperatures. Environmental Research Letters, 2020, 15, 094087.	5.2	18
27	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. Cryosphere, 2020, 14, 3033-3070.	3.9	198
28	The role of history and strength of the oceanic forcing in sea level projections from Antarctica with the Parallel Ice Sheet Model. Cryosphere, 2020, 14, 3097-3110.	3.9	16
29	Sensitivity of ice loss to uncertainty in flow law parameters in an idealized one-dimensional geometry. Cryosphere, 2020, 14, 3537-3550.	3.9	8
30	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. Cryosphere, 2019, 13, 1441-1471.	3.9	69
31	Higher resilience to climatic disturbances in tropical vegetation exposed to more variable rainfall. Nature Geoscience, 2019, 12, 174-179.	12.9	65
32	The far reach of ice-shelf thinning in Antarctica. Nature Climate Change, 2018, 8, 53-57.	18.8	161
33	Grounding-line flux formula applied as a flux condition in numerical simulations fails for buttressed Antarctic ice streams. Cryosphere, 2018, 12, 3229-3242.	3.9	21
34	Trajectories of the Earth System in the Anthropocene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8252-8259.	7.1	1,832
35	Antarctic sub-shelf melt rates via PICO. Cryosphere, 2018, 12, 1969-1985.	3.9	73
36	A Review of Recent Updates of Sea-Level Projections at Global and Regional Scales. Surveys in Geophysics, 2017, 38, 385-406.	4.6	88

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37	Closing the loop: Reconnecting human dynamics to Earth System science. Infrastructure Asset Management, 2017, 4, 151-157.	1.6	48
38	A Review of Recent Updates of Sea-Level Projections at Global and Regional Scales. Space Sciences Series of ISSI, 2017, , 395-416.	0.0	6
39	Why the right climate target was agreed in Paris. Nature Climate Change, 2016, 6, 649-653.	18.8	309
40	Critical insolationâ€"CO2 relation for diagnosing past and future glacial inception. Nature, 2016, 529, 200-203.	27.8	185
41	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. Nature Climate Change, 2016, 6, 360-369.	18.8	442
42	Future sea level rise constrained by observations and long-term commitment. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2597-2602.	7.1	174
43	A simple equation for the melt elevation feedback of ice sheets. Cryosphere, 2016, 10, 1799-1807.	3.9	40
44	Consistent evidence of increasing Antarctic accumulation with warming. Nature Climate Change, 2015, 5, 348-352.	18.8	130
45	Combustion of available fossil fuel resources sufficient to eliminate the Antarctic Ice Sheet. Science Advances, 2015, 1, e1500589.	10.3	91
46	Modeling Antarctic tides in response to ice shelf thinning and retreat. Journal of Geophysical Research: Oceans, 2014, 119, 87-97.	2.6	20
47	Projecting Antarctic ice discharge using response functions from SeaRISE ice-sheet models. Earth System Dynamics, 2014, 5, 271-293.	7.1	103
48	Linear response functions to project contributions to future sea level. Climate Dynamics, 2013, 40, 2579-2588.	3.8	21
49	Kinematic first-order calving law implies potential for abrupt ice-shelf retreat. Cryosphere, 2012, 6, 273-286.	3.9	136
50	Increased future ice discharge from Antarctica owing to higher snowfall. Nature, 2012, 492, 239-242.	27.8	78
51	The Potsdam Parallel Ice Sheet Model (PISM-PIK) â€" Part 1: Model description. Cryosphere, 2011, 5, 715-726.	3.9	262
52	Parameterization for subgrid-scale motion of ice-shelf calving fronts. Cryosphere, 2011, 5, 35-44.	3.9	52
53	The Potsdam Parallel Ice Sheet Model (PISM-PIK) â€" Part 2: Dynamic equilibrium simulation of the Antarctic ice sheet. Cryosphere, 2011, 5, 727-740.	3.9	130
54	The Antarctic Ice Sheetâ€"A Sleeping Giant?. Frontiers for Young Minds, 0, 10, .	0.8	0