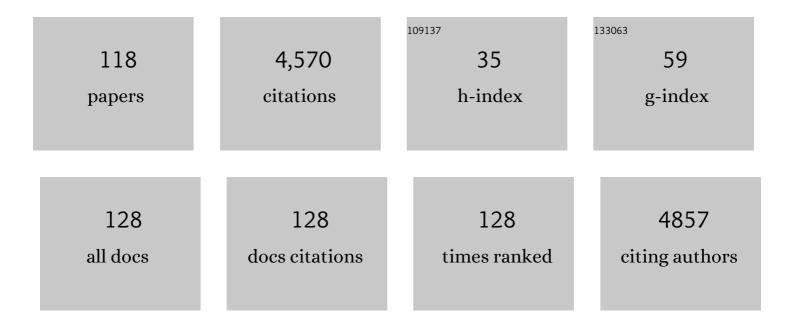
Klaus Keller

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Probabilistic hindcasts and projections of the coupled climate, carbon cycle and Atlantic meridional overturning circulation system: a Bayesian fusion of century-scale observations with a simple model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 737.	0.8	53
2	Tradeâ€offs and synergies in managing coastal flood risk: A case study for New York City. Journal of Flood Risk Management, 2022, 15, e12771.	1.6	5
3	Attention to values helps shape convergence research. Climatic Change, 2022, 170, 1.	1.7	2
4	Immersive storm surge flooding: Scale and risk perception in virtual reality. Journal of Environmental Psychology, 2022, 80, 101764.	2.3	9
5	Probabilistic projections of baseline twenty-first century CO2 emissions using a simple calibrated integrated assessment model. Climatic Change, 2022, 170, 37.	1.7	10
6	Multisector Dynamics: Advancing the Science of Complex Adaptive Humanâ€Earth Systems. Earth's Future, 2022, 10, .	2.4	47
7	Source decomposition of eddy-covariance CO ₂ flux measurements for evaluating a high-resolution urban CO ₂ emissions inventory. Environmental Research Letters, 2022, 17, 074035.	2.2	6
8	Why Simpler Computer Simulation Models Can Be Epistemically Better for Informing Decisions. Philosophy of Science, 2021, 88, 213-233.	0.5	20
9	The FLOod Probability Interpolation Tool (FLOPIT): A Simple Tool to Improve Spatial Flood Probability Quantification and Communication. Water (Switzerland), 2021, 13, 666.	1.2	2
10	Small increases in agent-based model complexity can result in large increases in required calibration data. Environmental Modelling and Software, 2021, 138, 104978.	1.9	14
11	Equity is more important for the social cost of methane than climate uncertainty. Nature, 2021, 592, 564-570.	13.7	26
12	Climate Risk Management. Annual Review of Earth and Planetary Sciences, 2021, 49, 95-116.	4.6	17
13	Adaptive mitigation strategies hedge against extreme climate futures. Climatic Change, 2021, 166, 1.	1.7	4
14	Evaluation of CarbonTracker's Inverse Estimates of North American Net Ecosystem Exchange of CO ₂ From Different Observing Systems Using ACTâ€America Airborne Observations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034406.	1.2	10
15	The Atmospheric Carbon and Transport (ACT)-America Mission. Bulletin of the American Meteorological Society, 2021, 102, E1714-E1734.	1.7	17
16	Examining CO ₂ Model Observation Residuals Using ACTâ€America Data. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034481.	1.2	4
17	Considering uncertainties expands the lower tail of maize yield projections. PLoS ONE, 2021, 16, e0259180.	1.1	1
18	Deep Uncertainties in Sea‣evel Rise and Storm Surge Projections: Implications for Coastal Flood Risk Management. Risk Analysis, 2020, 40, 153-168.	1.5	42

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19	Neglecting uncertainties biases house-elevation decisions to manage riverine flood risks. Nature Communications, 2020, 11, 5361.	5.8	48
20	The Role of Climate Sensitivity in Upperâ€īail Sea Level Rise Projections. Geophysical Research Letters, 2020, 47, e2019GL085792.	1,5	6
21	Reply to Geiger and Stomper: On capital intensity and observed increases in the economic damages of extreme natural disasters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6314-6315.	3.3	0
22	Identifying decision-relevant uncertainties for dynamic adaptive forest management under climate change. Climatic Change, 2020, 163, 891-911.	1.7	16
23	Reviewing the performance of adaptive forest management strategies with robustness analysis. Forest Policy and Economics, 2020, 119, 102289.	1.5	12
24	A fast particle-based approach for calibrating a 3-D model of the Antarctic ice sheet. Annals of Applied Statistics, 2020, 14, .	0.5	16
25	Optimization of multiple storm surge risk mitigation strategies for an island City On a Wedge. Environmental Modelling and Software, 2019, 119, 341-353.	1.9	9
26	Evidence for sharp increase in the economic damages of extreme natural disasters. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21450-21455.	3.3	168
27	A Road Map for Improving the Treatment of Uncertainties in Highâ€Resolution Regional Carbon Flux Inverse Estimates. Geophysical Research Letters, 2019, 46, 13461-13469.	1.5	23
28	Not all carbon dioxide emission scenarios are equally likely: a subjective expert assessment. Climatic Change, 2019, 155, 545-561.	1.7	30
29	Characterizing the deep uncertainties surrounding coastal flood hazard projections: A case study for Norfolk, VA. Scientific Reports, 2019, 9, 11373.	1.6	12
30	Impacts of Observational Constraints Related to Sea Level on Estimates of Climate Sensitivity. Earth's Future, 2019, 7, 677-690.	2.4	17
31	Robust abatement pathways to tolerable climate futures require immediate global action. Nature Climate Change, 2019, 9, 290-294.	8.1	41
32	Representation of U.S. Warm Temperature Extremes in Global Climate Model Ensembles. Journal of Climate, 2019, 32, 2591-2603.	1.2	5
33	Seasonal Characteristics of Model Uncertainties From Biogenic Fluxes, Transport, and Largeâ€Scale Boundary Inflow in Atmospheric CO ₂ Simulations Over North America. Journal of Geophysical Research D: Atmospheres, 2019, 124, 14325-14346.	1.2	26
34	Neglecting model structural uncertainty underestimates upper tails of flood hazard. Environmental Research Letters, 2018, 13, 074019.	2.2	22
35	Using direct policy search to identify robust strategies in adapting to uncertain sea-level rise and storm surge. Environmental Modelling and Software, 2018, 107, 96-104.	1.9	24
36	Epistemic and ethical trade-offs in decision analytical modelling. Climatic Change, 2018, 147, 1-10.	1.7	26

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37	Characterizing uncertain sea-level rise projections to support investment decisions. PLoS ONE, 2018, 13, e0190641.	1.1	43
38	Skill (or lack thereof) of data-model fusion techniques to provide an early warning signal for an approaching tipping point. PLoS ONE, 2018, 13, e0191768.	1.1	8
39	Projected impacts of climate change on habitat availability for an endangered parakeet. PLoS ONE, 2018, 13, e0191773.	1.1	20
40	Building a Valuesâ€Informed Mental Model for New Orleans Climate Risk Management. Risk Analysis, 2017, 37, 1993-2004.	1.5	34
41	Predicting root zone soil moisture with soil properties and satellite near-surface moisture data across the conterminous United States. Journal of Hydrology, 2017, 546, 393-404.	2.3	61
42	The effects of time-varying observation errors on semi-empirical sea-level projections. Climatic Change, 2017, 140, 349-360.	1.7	7
43	Direct policy search for robust multi-objective management of deeply uncertain socio-ecological tipping points. Environmental Modelling and Software, 2017, 92, 125-141.	1.9	59
44	Sources and implications of deep uncertainties surrounding sea-level projections. Climatic Change, 2017, 140, 339-347.	1.7	55
45	Priority for the worse-off and the social cost ofÂcarbon. Nature Climate Change, 2017, 7, 443-449.	8.1	60
46	Understanding scientists' computational modeling decisions about climate risk management strategies using values-informed mental models. Global Environmental Change, 2017, 42, 107-116.	3.6	21
47	Multidecadal Scale Detection Time for Potentially Increasing Atlantic Storm Surges in a Warming Climate. Geophysical Research Letters, 2017, 44, 10,617.	1.5	24
48	Sea-level projections representing the deeply uncertain contribution of the West Antarctic ice sheet. Scientific Reports, 2017, 7, 3880.	1.6	61
49	Impacts of Antarctic fast dynamics on sea-level projections and coastal flood defense. Climatic Change, 2017, 144, 347-364.	1.7	73
50	Statistics and the Future of the Antarctic Ice Sheet. Chance, 2017, 30, 37-44.	0.1	8
51	Indicators and metrics for the assessment of climate engineering. Earth's Future, 2017, 5, 49-58.	2.4	16
52	Deep Uncertainty Surrounding Coastal Flood Risk Projections: A Case Study for New Orleans. Earth's Future, 2017, 5, 1015-1026.	2.4	40
53	Understanding the detectability of potential changes to the 100-year peak storm surge. Climatic Change, 2017, 145, 221-235.	1.7	31
54	Assessing the Impact of Retreat Mechanisms in a Simple Antarctic Ice Sheet Model Using Bayesian Calibration. PLoS ONE, 2017, 12, e0170052.	1.1	29

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55	Impacts of representing sea-level rise uncertainty on future flood risks: An example from San Francisco Bay. PLoS ONE, 2017, 12, e0174666.	1.1	10
56	A multi-objective decision-making approach to the journal submission problem. PLoS ONE, 2017, 12, e0178874.	1.1	10
57	Probabilistic inversion of expert assessments to inform projections about Antarctic ice sheet responses. PLoS ONE, 2017, 12, e0190115.	1.1	10
58	BRICK v0.2, aÂsimple, accessible, and transparent model framework for climate and regional sea-level projections. Geoscientific Model Development, 2017, 10, 2741-2760.	1.3	43
59	Climate risk management requires explicit representation of societal trade-offs. Climatic Change, 2016, 134, 713-723.	1.7	32
60	A Potential Disintegration of the West Antarctic Ice Sheet: Implications for Economic Analyses of Climate Policy. American Economic Review, 2016, 106, 607-611.	4.0	29
61	A simple, physically motivated model of sea-level contributions from the Greenland ice sheet in response to temperature changes. Environmental Modelling and Software, 2016, 83, 27-35.	1.9	12
62	Effects of initial conditions uncertainty on regional climate variability: An analysis using a Iowâ€resolution CESM ensemble. Geophysical Research Letters, 2015, 42, 5468-5476.	1.5	42
63	An open source framework for many-objective robust decision making. Environmental Modelling and Software, 2015, 74, 114-129.	1.9	114
64	Many-objective robust decision making for managing an ecosystem with a deeply uncertain threshold response. Ecology and Society, 2015, 20, .	1.0	68
65	Confronting tipping points: Can multi-objective evolutionary algorithms discover pollution control tradeoffs given environmental thresholds?. Environmental Modelling and Software, 2015, 73, 27-43.	1.9	30
66	Increasing temperature forcing reduces the Greenland Ice Sheet's response time scale. Climate Dynamics, 2015, 45, 2001-2011.	1.7	20
67	Improving Climate Projections to Better Inform Climate Risk Management. , 2015, , .		4
68	Evaluating terrestrial CO ₂ flux diagnoses and uncertainties from a simple land surface model and its residuals. Biogeosciences, 2014, 11, 217-235.	1.3	25
69	Inaction and climate stabilization uncertainties lead to severe economic risks. Climatic Change, 2014, 127, 463-474.	1.7	15
70	Improved Representation of Tropical Pacific Ocean–Atmosphere Dynamics in an Intermediate Complexity Climate Model. Journal of Climate, 2014, 27, 168-185.	1.2	10
71	Probabilistic calibration of a Greenland Ice Sheet model using spatially resolved synthetic observations: toward projections of ice mass loss with uncertainties. Geoscientific Model Development, 2014, 7, 1933-1943.	1.3	17
72	Aided and unaided decisions with imprecise probabilities in the domain of losses. EURO Journal on Decision Processes, 2014, 2, 31-62.	1.8	10

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73	The Probable Datum Method (PDM): a technique for estimating the age of origination or extinction of nannoplankton. Paleobiology, 2014, 40, 541-559.	1.3	7
74	Identifying parametric controls and dependencies in integrated assessment models using global sensitivity analysis. Environmental Modelling and Software, 2014, 59, 10-29.	1.9	58
75	Historical and future learning about climate sensitivity. Geophysical Research Letters, 2014, 41, 2543-2552.	1.5	32
76	Reducing Biases in XBT Measurements by Including Discrete Information from Pressure Switches. Journal of Atmospheric and Oceanic Technology, 2013, 30, 810-824.	0.5	10
77	What is the effect of unresolved internal climate variability on climate sensitivity estimates?. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4348-4358.	1.2	18
78	Bayesian Decision Theory and Climate Change. , 2013, , 1-4.		1
79	Improving North American terrestrial CO ₂ flux diagnosis using spatial structure in land surface model residuals. Biogeosciences, 2013, 10, 4607-4625.	1.3	21
80	Observed and Modeled Twentieth-Century Spatial and Temporal Patterns of Selected Agro-Climate Indices in North America. Journal of Climate, 2012, 25, 473-490.	1.2	24
81	An assessment of key model parametric uncertainties in projections of Greenland Ice Sheet behavior. Cryosphere, 2012, 6, 589-606.	1.5	76
82	Tension between reducing sea-level rise and global warming through solar-radiation management. Nature Climate Change, 2012, 2, 97-100.	8.1	57
83	Toward a physically plausible upper bound of sea-level rise projections. Climatic Change, 2012, 115, 893-902.	1.7	51
84	Towards Integrated Ethical and Scientific Analysis of Geoengineering: A Research Agenda. Ethics, Policy and Environment, 2012, 15, 136-157.	0.8	36
85	A climate sensitivity estimate using Bayesian fusion of instrumental observations and an Earth System model. Journal of Geophysical Research, 2012, 117, .	3.3	62
86	Probabilistic projections of agro limate indices in North America. Journal of Geophysical Research, 2012, 117, .	3.3	29
87	Inferring likelihoods and climate system characteristics from climate models and multiple tracers. Environmetrics, 2012, 23, 345-362.	0.6	24
88	What are robust strategies in the face of uncertain climate threshold responses?. Climatic Change, 2012, 112, 547-568.	1.7	104
89	Robust Climate Policies Under Uncertainty: A Comparison of Robust Decision Making and Info ap Methods. Risk Analysis, 2012, 32, 1657-1672.	1.5	221
90	Improved moraine age interpretations through explicit matching of geomorphic process models to cosmogenic nuclide measurements from single landforms. Quaternary Research, 2012, 77, 293-304.	1.0	91

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91	The economics (or lack thereof) of aerosol geoengineering. Climatic Change, 2011, 109, 719-744.	1.7	130
92	Intrinsic Ethics Regarding Integrated Assessment Models for Climate Management. Science and Engineering Ethics, 2011, 17, 503-523.	1.7	35
93	Climate Projections Using Bayesian Model Averaging and Space–Time Dependence. Journal of Agricultural, Biological, and Environmental Statistics, 2011, 16, 606-628.	0.7	36
94	Modeling the statistical distributions of cosmogenic exposure dates from moraines. Geoscientific Model Development, 2010, 3, 293-307.	1.3	93
95	The Role of the National Science Foundation Broader Impacts Criterion in Enhancing Research Ethics Pedagogy. Social Epistemology, 2009, 23, 317-336.	0.7	26
96	Complementary observational constraints on climate sensitivity. Geophysical Research Letters, 2009, 36, .	1.5	33
97	Managing the risks of climate thresholds: uncertainties and information needs. Climatic Change, 2008, 91, 5-10.	1.7	67
98	Economically optimal risk reduction strategies in the face of uncertain climate thresholds. Climatic Change, 2008, 91, 29-41.	1.7	44
99	Detecting potential changes in the meridional overturning circulation at 26ËšN in the Atlantic. Climatic Change, 2008, 91, 11-27.	1.7	40
100	Carbon dioxide sequestration: how much and when?. Climatic Change, 2008, 88, 267-291.	1.7	39
101	Abrupt climate change near the poles. Climatic Change, 2008, 91, 1-4.	1.7	7
102	The dynamics of learning about a climate threshold. Climate Dynamics, 2008, 30, 321-332.	1.7	37
103	A Bayesian calibration of a simple carbon cycle model: The role of observations in estimating and reducing uncertainty. Global Biogeochemical Cycles, 2008, 22, .	1.9	63
104	Optimization of an Observing System Design for the North Atlantic Meridional Overturning Circulation. Journal of Atmospheric and Oceanic Technology, 2008, 25, 625-634.	0.5	22
105	Early Detection of Changes in the North Atlantic Meridional Overturning Circulation: Implications for the Design of Ocean Observation Systems. Journal of Climate, 2007, 20, 145-157.	1.2	27
106	Avoiding Dangerous Anthropogenic Interference with the Climate System. Climatic Change, 2005, 73, 227-238.	1.7	62
107	Errors in Estimated Temporal Tracer Trends Due to Changes in the Historical Observation Network: A Case Study of Oxygen Trends in the Southern Ocean. Ocean and Polar Research, 2005, 27, 189-195.	0.3	5
108	Solving nonconvex climate control problems: pitfalls and algorithm performances. Applied Soft Computing Journal, 2004, 5, 35-44.	4.1	33

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109	Response to Comment on "Sources and Variations of Mercury in Tuna― Environmental Science & Technology, 2004, 38, 4048-4048.	4.6	0
110	Uncertain climate thresholds and optimal economic growth. Journal of Environmental Economics and Management, 2004, 48, 723-741.	2.1	236
111	Sources and Variations of Mercury in Tuna. Environmental Science & Technology, 2003, 37, 5551-5558.	4.6	127
112	Possible biological or physical explanations for decadal scale trends in North Pacific nutrient concentrations and oxygen utilization. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 345-362.	0.6	33
113	Preserving the Ocean Circulation: Implications for Climate Policy. Climatic Change, 2000, 47, 17-43.	1.7	83
114	What Story Is Told by Oceanic Tracer Concentrations?. Science, 2000, 290, 455-456.	6.0	10
115	A Model for Metal Adsorption on Montmorillonite. Journal of Colloid and Interface Science, 1999, 210, 43-54.	5.0	208
116	A model of carbon isotopic fractionation and active carbon uptake in phytoplankton. Marine Ecology - Progress Series, 1999, 182, 295-298.	0.9	89
117	On the Acidâ^'Base Chemistry of Permanently Charged Minerals. Environmental Science & Technology, 1998, 32, 2829-2838.	4.6	109
118	A safety factor approach to designing urban infrastructure for dynamic conditions. Earth's Future, 0, , e2021EF002118.	2.4	2