

# Wolfgang Cramer

## List of Publications by Citations

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143  
papers

20,604  
citations

59  
h-index

143  
g-index

162  
ext. papers

22,839  
ext. citations

7.8  
avg, IF

6.21  
L-index

#	Paper	IF	Citations
143	Evaluation of ecosystem dynamics, plant geography and terrestrial carbon cycling in the LPJ dynamic global vegetation model. <i>Global Change Biology</i> , <b>2003</b> , 9, 161-185	11.4	2307
142	Special Paper: A Global Biome Model Based on Plant Physiology and Dominance, Soil Properties and Climate. <i>Journal of Biogeography</i> , <b>1992</b> , 19, 117	4.1	1480
141	Global response of terrestrial ecosystem structure and function to CO <sub>2</sub> and climate change: results from six dynamic global vegetation models. <i>Global Change Biology</i> , <b>2001</b> , 7, 357-373	11.4	1464
140	Ecosystem service supply and vulnerability to global change in Europe. <i>Science</i> , <b>2005</b> , 310, 1333-7	33.3	1181
139	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , <b>2001</b> , 414, 169-72	50.4	1018
138	Modelling the role of agriculture for the 20th century global terrestrial carbon balance. <i>Global Change Biology</i> , <b>2007</b> , 13, 679-706	11.4	959
137	Comparing global models of terrestrial net primary productivity (NPP): overview and key results. <i>Global Change Biology</i> , <b>1999</b> , 5, 1-15	11.4	793
136	Climatic control of the high-latitude vegetation greening trend and Pinatubo effect. <i>Science</i> , <b>2002</b> , 296, 1687-9	33.3	578
135	The role of fire disturbance for global vegetation dynamics: coupling fire into a Dynamic Global Vegetation Model. <i>Global Ecology and Biogeography</i> , <b>2001</b> , 10, 661-677	6.1	471
134	Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. <i>Global Change Biology</i> , <b>2015</b> , 21, 2861-80	11.4	454
133	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. <i>Global Change Biology</i> , <b>2007</b> , 13, 634-651	11.4	423
132	Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability. <i>Current Opinion in Environmental Sustainability</i> , <b>2015</b> , 14, 76-85	7.2	405
131	Climate change and interconnected risks to sustainable development in the Mediterranean. <i>Nature Climate Change</i> , <b>2018</b> , 8, 972-980	21.4	403
130	Climate change and Arctic ecosystems: 2. Modeling, paleodata-model comparisons, and future projections. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		361
129	A simulation model for the transient effects of climate change on forest landscapes. <i>Ecological Modelling</i> , <b>1993</b> , 65, 51-70	3	337
128	CLIMATE: The Terrestrial Carbon Cycle: Implications for the Kyoto Protocol. <i>Science</i> , <b>1998</b> , 280, 1393-1394	35.3	326
127	Projecting the future distribution of European potential natural vegetation zones with a generalized, tree species-based dynamic vegetation model. <i>Global Ecology and Biogeography</i> , <b>2012</b> , 21, 50-63	6.1	304

126	Special Paper: Modelling Present and Potential Future Ranges of Some European Higher Plants Using Climate Response Surfaces. <i>Journal of Biogeography</i> , <b>1995</b> , 22, 967	4.1	290
125	Climate change risks for African agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 4313-5	11.5	281
124	Tropical climates at the Last Glacial Maximum: a new synthesis of terrestrial palaeoclimate data. I. Vegetation, lake-levels and geochemistry. <i>Climate Dynamics</i> , <b>1999</b> , 15, 823-856	4.2	270
123	Modeled interactive effects of precipitation, temperature, and [CO <sub>2</sub> ] on ecosystem carbon and water dynamics in different climatic zones. <i>Global Change Biology</i> , <b>2008</b> , 14, 1986-1999	11.4	245
122	Climate change and Arctic ecosystems: 1. Vegetation changes north of 55°N between the last glacial maximum, mid-Holocene, and present. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		220
121	Role of land cover changes for atmospheric CO <sub>2</sub> increase and climate change during the last 150 years. <i>Global Change Biology</i> , <b>2004</b> , 10, 1253-1266	11.4	193
120	Spatial decoupling of agricultural production and consumption: quantifying dependences of countries on food imports due to domestic land and water constraints. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 014046	6.2	192
119	Dynamic Global Vegetation Modeling: Quantifying Terrestrial Ecosystem Responses to Large-Scale Environmental Change <b>2007</b> , 175-192		174
118	Plant functional types and climatic change: Introduction. <i>Journal of Vegetation Science</i> , <b>1996</b> , 7, 306-308	3.1	167
117	Tropical forests and the global carbon cycle: impacts of atmospheric carbon dioxide, climate change and rate of deforestation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2004</b> , 359, 331-43	5.8	162
116	Climate change: The 2015 Paris Agreement thresholds and Mediterranean basin ecosystems. <i>Science</i> , <b>2016</b> , 354, 465-468	33.3	146
115	Biodiversity scenarios neglect future land-use changes. <i>Global Change Biology</i> , <b>2016</b> , 22, 2505-15	11.4	146
114	Internal and external green-blue agricultural water footprints of nations, and related water and land savings through trade. <i>Hydrology and Earth System Sciences</i> , <b>2011</b> , 15, 1641-1660	5.5	143
113	Simulating fire regimes in human-dominated ecosystems: Iberian Peninsula case study. <i>Global Change Biology</i> , <b>2002</b> , 8, 984-998	11.4	137
112	Bioenergy209-332		128
111	INCORPORATING DYNAMIC VEGETATION COVER WITHIN GLOBAL CLIMATE MODELS <b>2000</b> , 10, 1620-1632		125
110	A Global System for Monitoring Ecosystem Service Change. <i>BioScience</i> , <b>2012</b> , 62, 977-986	5.7	124
109	Terrestrial biosphere carbon storage under alternative climate projections. <i>Climatic Change</i> , <b>2006</b> , 74, 97-122	4.5	122

108	The performance of models relating species geographical distributions to climate is independent of trophic level. <i>Ecology Letters</i> , <b>2004</b> , 7, 417-426	10	119
107	Estimating the risk of Amazonian forest dieback. <i>New Phytologist</i> , <b>2010</b> , 187, 694-706	9.8	116
106	Changes in Nature's Balance Sheet: Model-based Estimates of Future Worldwide Ecosystem Services. <i>Ecology and Society</i> , <b>2005</b> , 10,	4.1	109
105	A spatially explicit and quantitative vulnerability assessment of ecosystem service change in Europe. <i>Regional Environmental Change</i> , <b>2008</b> , 8, 91-107	4.3	106
104	Projected Changes in Terrestrial Carbon Storage in Europe under Climate and Land-use Change, 1990-2100. <i>Ecosystems</i> , <b>2007</b> , 10, 380-401	3.9	105
103	Biodiversity targets after 2010. <i>Current Opinion in Environmental Sustainability</i> , <b>2010</b> , 2, 3-8	7.2	104
102	The importance of age-related decline in forest NPP for modeling regional carbon balances <b>2006</b> , 16, 1555-74		99
101	Modelled effects of precipitation on ecosystem carbon and water dynamics in different climatic zones. <i>Global Change Biology</i> , <b>2008</b> , 14, 2365-2379	11.4	98
100	Terrestrial vegetation redistribution and carbon balance under climate change. <i>Carbon Balance and Management</i> , <b>2006</b> , 1, 6	3.6	98
99	Mediterranean irrigation under climate change: more efficient irrigation needed to compensate for increases in irrigation water requirements. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 953-973	5.5	97
98	Temperature sensitivity of decomposition in relation to soil organic matter pools: critique and outlook. <i>Biogeosciences</i> , <b>2005</b> , 2, 317-321	4.6	96
97	Improving the behaviour of forest gap models along drought gradients. <i>Forest Ecology and Management</i> , <b>1998</b> , 103, 247-263	3.9	87
96	Ecosystem services in global sustainability policies. <i>Environmental Science and Policy</i> , <b>2017</b> , 74, 40-48	6.2	83
95	Pathways to bridge the biophysical realism gap in ecosystem services mapping approaches. <i>Ecological Indicators</i> , <b>2017</b> , 74, 241-260	5.8	74
94	Program on ecosystem change and society: an international research strategy for integrated social-ecological systems. <i>Current Opinion in Environmental Sustainability</i> , <b>2012</b> , 4, 134-138	7.2	74
93	The global terrestrial carbon cycle. <i>Water, Air, and Soil Pollution</i> , <b>1993</b> , 70, 19-37	2.6	74
92	Plant functional types and disturbance dynamics - Introduction. <i>Journal of Vegetation Science</i> , <b>1999</b> , 10, 603-608	3.1	73
91	The challenge to detect and attribute effects of climate change on human and natural systems. <i>Climatic Change</i> , <b>2013</b> , 121, 381-395	4.5	69

90	The Possible Dynamic Response of Northern Forests to Global Warming. <i>Global Ecology and Biogeography Letters</i> , <b>1991</b> , 1, 129		69
89	The separation of fluctuation and long-term change in vegetation dynamics of a rising seashore. <i>Plant Ecology</i> , <b>1987</b> , 69, 157-167		66
88	Modelling the vegetation of China using the process-based equilibrium terrestrial biosphere model BIOME3. <i>Global Ecology and Biogeography</i> , <b>2000</b> , 9, 463-479	6.1	62
87	Impacts of urbanization around Mediterranean cities: Changes in ecosystem service supply. <i>Ecological Indicators</i> , <b>2018</b> , 91, 589-606	5.8	61
86	Plant litter mixture partly mitigates the negative effects of extended drought on soil biota and litter decomposition in a Mediterranean oak forest. <i>Journal of Ecology</i> , <b>2017</b> , 105, 801-815	6	58
85	Global change effects on land management in the Mediterranean region. <i>Global Environmental Change</i> , <b>2018</b> , 50, 238-254	10.1	57
84	An Integrated Assessment of changes in the thermohaline circulation. <i>Climatic Change</i> , <b>2009</b> , 96, 489-537	4.5	56
83	Net biome production of the Amazon Basin in the 21st century. <i>Global Change Biology</i> , <b>2010</b> , 16, 2062-2075	7.4	54
82	Assessing the observed impact of anthropogenic climate change. <i>Nature Climate Change</i> , <b>2016</b> , 6, 532-537	7.4	52
81	Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012-20. <i>Current Opinion in Environmental Sustainability</i> , <b>2012</b> , 4, 101-105	7.2	50
80	The need for an integrated biodiversity policy support process [Building the European contribution to a global Biodiversity Observation Network (EU BON)]. <i>Nature Conservation</i> , <b>2016</b> , 6, 49-65		50
79	Regional impacts of climatic change on forests in the state of Brandenburg, Germany. <i>Agricultural and Forest Meteorology</i> , <b>1997</b> , 84, 123-135	5.8	47
78	Simulation of regional soil moisture deficits on a European scale. <i>Norsk Geografisk Tidsskrift</i> , <b>1988</b> , 42, 149-151	0.9	45
77	Potential effects of climate change on inundation patterns in the Amazon Basin. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 2247-2262	5.5	44
76	Simple process-led algorithms for simulating habitats (SPLASH v.1.0): robust indices of radiation, evapotranspiration and plant-available moisture. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 689-708	6.3	43
75	Quantifying range-wide variation in population trends from local abundance surveys and widespread opportunistic occurrence records. <i>Methods in Ecology and Evolution</i> , <b>2014</b> , 5, 751-760	7.7	43
74	Geographic patterns and dynamics of Alaskan climate interpolated from a sparse station record.. <i>Global Change Biology</i> , <b>2000</b> , 6, 49-58	11.4	43
73	Reconciling justice and attribution research to advance climate policy. <i>Nature Climate Change</i> , <b>2016</b> , 6, 901-908	21.4	43

72	Global scenarios for biodiversity need to better integrate climate and land use change. <i>Diversity and Distributions</i> , <b>2017</b> , 23, 1231-1234	5	41
71	Modeling the Sensitivity of the Seasonal Cycle of GPP to Dynamic LAI and Soil Depths in Tropical Rainforests. <i>Ecosystems</i> , <b>2009</b> , 12, 517-533	3.9	41
70	Global vegetation models: incorporating transient changes to structure and composition. <i>Journal of Vegetation Science</i> , <b>1996</b> , 7, 321-328	3.1	40
69	Extreme fire events are related to previous-year surface moisture conditions in permafrost-underlain larch forests of Siberia. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 044021	6.2	39
68	An introduction to the European Terrestrial Ecosystem Modelling Activity. <i>Global Ecology and Biogeography</i> , <b>2001</b> , 10, 581-593	6.1	38
67	Scaling Issues in Forest Succession Modelling. <i>Climatic Change</i> , <b>2000</b> , 44, 265-289	4.5	38
66	Robust dynamics of Amazon dieback to climate change with perturbed ecosystem model parameters. <i>Global Change Biology</i> , <b>2010</b> , 16, 2476	11.4	37
65	The Plant Community as a Niche Bioassay: Environmental Correlates of Local Variation in <i>Gypsophila Fastigiata</i> . <i>Journal of Ecology</i> , <b>1990</b> , 78, 313	6	36
64	Hydrologic resilience of the terrestrial biosphere. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	34
63	Spatial variation of trends in wildfire and summer drought in British Columbia, Canada, 1920 - 2000. <i>International Journal of Wildland Fire</i> , <b>2010</b> , 19, 272	3.2	33
62	Impact of land cover change on ecosystem service supply in mountain systems: a case study in the Cantabrian Mountains (NW of Spain). <i>Regional Environmental Change</i> , <b>2019</b> , 19, 529-542	4.3	33
61	Organizing principles for vegetation dynamics. <i>Nature Plants</i> , <b>2020</b> , 6, 444-453	11.5	32
60	The interaction of climate and land use in future terrestrial carbon storage and release. <i>Water, Air, and Soil Pollution</i> , <b>1993</b> , 70, 595-614	2.6	32
59	Predicting pan-tropical climate change induced forest stock gains and losses—Implications for REDD. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 014013	6.2	31
58	Potential and limitations of the attribution of climate change impacts for informing loss and damage discussions and policies. <i>Climatic Change</i> , <b>2015</b> , 133, 453-467	4.5	30
57	Assessing inter-sectoral climate change risks: the role of ISIMIP. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 010301	6.2	30
56	Relationship between fire, climate oscillations, and drought in British Columbia, Canada, 1920–2000. <i>Global Change Biology</i> , <b>2010</b> , 16, 977-989	11.4	30
55	Comparing global models of terrestrial net primary productivity (NPP): introduction. <i>Global Change Biology</i> , <b>1999</b> , 5, iii	11.4	29

54	10 Years Later. <i>Advances in Ecological Research</i> , <b>2015</b> , 53, 1-53	4.6	28
53	Integrated forestry assessments for climate change impacts. <i>Forest Ecology and Management</i> , <b>2002</b> , 162, 117-136	3.9	28
52	Impact of droughts on the carbon cycle in European vegetation: a probabilistic risk analysis using six vegetation models. <i>Biogeosciences</i> , <b>2014</b> , 11, 6357-6375	4.6	27
51	A novel probabilistic risk analysis to determine the vulnerability of ecosystems to extreme climatic events. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 015032	6.2	26
50	The impact of conservation farming practices on Mediterranean agro-ecosystem services provisioning – meta-analysis. <i>Regional Environmental Change</i> , <b>2019</b> , 19, 2187-2202	4.3	26
49	Development of probability density functions for future South American rainfall. <i>New Phytologist</i> , <b>2010</b> , 187, 682-93	9.8	25
48	Effects of changes in CO <sub>2</sub> , climate, and land use on the carbon balance of the land biosphere during the 21st century. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		25
47	Comparative impact of climatic and nonclimatic factors on global terrestrial carbon and water cycles. <i>Global Biogeochemical Cycles</i> , <b>2006</b> , 20, n/a-n/a	5.9	25
46	Long-term Trends in Vegetation Dynamics and Forest Fires in Brandenburg (Germany) Under a Changing Climate. <i>Natural Hazards</i> , <b>2006</b> , 38, 283-300	3	25
45	National indicators for observing ecosystem service change. <i>Global Environmental Change</i> , <b>2015</b> , 35, 12-21	21.1	24
44	Modelling Mediterranean agro-ecosystems by including agricultural trees in the LPJmL model. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 3545-3561	6.3	21
43	Initiative to quantify terrestrial carbon sources and sinks. <i>Eos</i> , <b>2002</b> , 83, 1	1.5	20
42	Strategy for a Fire Module in Dynamic Global Vegetation Models. <i>International Journal of Wildland Fire</i> , <b>1999</b> , 9, 79	3.2	20
41	Linking local impacts to changes in climate: a guide to attribution. <i>Regional Environmental Change</i> , <b>2016</b> , 16, 527-541	4.3	19
40	Satellite remote sensing of tropical forest canopies and their seasonal dynamics. <i>International Journal of Remote Sensing</i> , <b>2009</b> , 30, 6575-6590	3.1	17
39	Application of a forest succession model to a continentality gradient through Central Europe. <i>Climatic Change</i> , <b>1996</b> , 34, 191	4.5	17
38	Macroecology meets global change research. <i>Global Ecology and Biogeography</i> , <b>2007</b> , 17, 3-4	6.1	15
37	Machine-learning-based evidence and attribution mapping of 100,000 climate impact studies. <i>Nature Climate Change</i> , <b>2021</b> , 11, 966-972	21.4	14



36	Climate Impact Response Functions: An Introduction. <i>Climatic Change</i> , <b>2000</b> , 46, 225-246	4.5	12
35	Ecosystem Services <b>2017</b> , 39-78		11
34	Biospheric Implications of Global Environmental Change <b>1993</b> , 25-52		11
33	Terrestrial NPP: Toward a Consistent Data Set for Global Model Evaluation <b>1999</b> , 9, 913		10
32	Eco-evolutionary optimality as a means to improve vegetation and land-surface models. <i>New Phytologist</i> , <b>2021</b> , 231, 2125-2141	9.8	10
31	Modeling the Possible Impact of Climate Change on Broad-Scale Vegetation Structure: Examples from Northern Europe. <i>Ecological Studies</i> , <b>1997</b> , 312-329	1.1	10
30	Precipitation-driven decrease in wildfires in British Columbia. <i>Regional Environmental Change</i> , <b>2013</b> , 13, 165-177	4.3	9
29	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1995</b> , 47, 240-250	3.3	9
28	Possible Impacts of Global Warming on Tundra and Boreal Forest Ecosystems: Comparison of Some Biogeochemical Models. <i>Journal of Biogeography</i> , <b>1995</b> , 22, 775	4.1	9
27	Coupling global models of vegetation structure and ecosystem processes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1995</b> , 47, 240-250	3.3	9
26	Ecosystem Services Supplied by Mediterranean Basin Ecosystems <b>2016</b> , 405-414		9
25	Rapid systematic assessment of the detection and attribution of regional anthropogenic climate change. <i>Climate Dynamics</i> , <b>2016</b> , 47, 1399-1415	4.2	8
24	Air pollution and climate change both reduce Indian rice harvests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 19609-10	11.5	7
23	Determining Present Patterns of Global Productivity <b>2001</b> , 429-448		7
22	Focus on cross-scale feedbacks in global sustainable land management. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 090402	6.2	6
21	Climate change increases riverine carbon outgassing, while export to the ocean remains uncertain. <i>Earth System Dynamics</i> , <b>2016</b> , 7, 559-582	4.8	6
20	Detection and Attribution of Observed Impacts 979-1038		5
19	The evolution of the evidence base for observed impacts of climate change. <i>Current Opinion in Environmental Sustainability</i> , <b>2015</b> , 14, 187-197	7.2	5



18	Can bioenergy cropping compensate high carbon emissions from large-scale deforestation of high latitudes?. <i>Earth System Dynamics</i> , <b>2013</b> , 4, 409-424	4.8	5
17	What ecologists should know before using land use/cover change projections for biodiversity and ecosystem service assessments. <i>Regional Environmental Change</i> , <b>2020</b> , 20, 1	4.3	5
16	The effect of sea shore displacement on population age structure of coastal <i>Alnus glutinosa</i> (L.) Gaertn.. <i>Ecography</i> , <b>1985</b> , 8, 265-272	6.5	4
15	Nitrogen dynamics in cropping systems under Mediterranean climate: a systemic analysis. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 073002	6.2	4
14	Deforestation in Amazonia impacts riverine carbon dynamics. <i>Earth System Dynamics</i> , <b>2016</b> , 7, 953-968	4.8	4
13	Science to Policy Linkages for the Post-2010 Biodiversity Targets <b>2013</b> , 291-310		3
12	Confronting a burning question: The Role of fire on Earth. <i>Eos</i> , <b>2003</b> , 84, 23	1.5	3
11	Changing the surface of our planet – results from studies of the global ecosystem. <i>Global Ecology and Biogeography</i> , <b>1999</b> , 8, 363-365	6.1	3
10	Twenty-first century atmospheric change and deforestation: potential impacts on tropical forests <b>2005</b> , 17-30		3
9	Assessing carbon dynamics in Amazonia with the Dynamic Global Vegetation Model LPJmL – discharge evaluation. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , <b>2008</b> , 30, 455-458		2
8	National and regional climate change impact assessments in the forestry sector. <i>Forest Ecology and Management</i> , <b>2002</b> , 162, 1-2	3.9	2
7	Modelling Mediterranean agro-ecosystems by including agricultural trees in the LPJmL model		2
6	Forecast changes in the global environment:What they mean in terms of ecosystem responses on different time-scales <b>1997</b> , 415-426		1
5	Predicting the response of terrestrial biota to future environmental changes <b>1991</b> , 487-504		1
4	Training future experts in Biodiversity and ecosystem services—a progress report. <i>Regional Environmental Change</i> , <b>2008</b> , 8, 125-134	4.3	0
3	Modelle zur Simulation von Struktur und Dynamik der terrestrischen Biosphäre <b>2004</b> , 1-16		
2	Technical Summary27-158		
1	The Role of Ecosystem Services in Increasing the Adaptive Capacity of the Poor <b>2012</b> , 179-191		

