Rik Leemans

List of Publications by Year
in descending order

141 papers	24,546 citations	43973 48 h-index	11899 134 g-index
175 all docs	175 docs citations	175 times ranked	28010 citing authors

#	Article	IF	Citations
1	Tropical tree growth driven by dry-season climate variability. Nature Geoscience, 2022, 15, 269-276.	5.4	38
2	Governing for Transformative Change across the Biodiversityâ€“Climateâ€“Society Nexus. BioScience, 2022, 72, 684-704.	2.2	48
3	Biological diversity and climate change. , 2021, , 541-559.		1
4	Transitioning to Low-Carbon Economies under the 2030 Agenda: Minimizing Trade-Offs and Enhancing Co-Benefits of Climate-Change Action for the SDGs. Sustainability, 2021, 13, 10774.	1.6	15
5	Response to commentary â€˜towards more meaningful scenarios of biodiversity responses to land-use change in Central Asia. Regional Environmental Change, 2020, 20, 1.	1.4	0
6	Potential biodiversity change in Central Asian grasslands: scenarios for the impact of climate and land-use change. Regional Environmental Change, 2020, 20, 1.	1.4	17
7	Modelling the response of net primary productivity of the Zambezi teak forests to climate change along a rainfall gradient in Zambia. Biogeosciences, 2019, 16, 3853-3867.	1.3	3
8	Forty Years of Climate and Land-Cover Change and its Effects on Tourism Resources in Kilimanjaro National Park. Tourism Planning and Development, 2019, 16, 235-253.	1.3	25
9	Assessing the impacts of climate change on biodiversity: is below 2ÂÂ°C enough?. Climatic Change, 2019, 154, 351-365.	1.7	116
10	Determining sectoral and regional sensitivity to climate and socio-economic change in Europe using impact response surfaces. Regional Environmental Change, 2019, 19, 679-693.	1.4	21
11	The Mekong's future flows under multiple drivers: How climate change, hydropower developments and irrigation expansions drive hydrological changes. Science of the Total Environment, 2019, 649, 601-609.	3.9	98
12	Below and above-ground carbon distribution along a rainfall gradient. A case of the Zambezi teak forests, Zambia. Acta Oecologica, 2018, 87, 45-57.	0.5	7
13	Data for developing allometric models and evaluating carbon stocks of the Zambezi Teak Forests in Zambia. Data in Brief, 2018, 17, 1361-1373.	0.5	2
14	Modelling the impact of future socio-economic and climate change scenarios on river microbial water quality. International Journal of Hygiene and Environmental Health, 2018, 221, 283-292.	2.1	40
15	Impact of Climate Change on the Technical Efficiency of Striped Catfish, Pangasianodon hypophthalmus, Farming in the Mekong Delta, Vietnam. Journal of the World Aquaculture Society, 2018, 49, 570-581.	1.2	24
16	Managing flood risks in the Mekong Delta: How to address emerging challenges under climate change and socioeconomic developments. Ambio, 2018, 47, 635-649.	2.8	49
17	Comparison of ecosystem services provided by grasslands with different utilization patterns in Chinaâ€™s Inner Mongolia Autonomous Region. Journal of Chinese Geography, 2018, 28, 1399-1414.	1.5	18
18	Can zoning resolve nature use conflicts? The case of the Numto Nature Park in the Russian Arctic. Journal of Environmental Planning and Management, 2018, 61, 1674-1700.	2.4	7

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19	Tropical Montane Cloud Forests in the Orinoco River basin: Inferring fog interception from through-fall dynamics. Agricultural and Forest Meteorology, 2018, 260-261, 17-30.	1.9	5
20	Sustainability constraints in determining European bioenergy potential: A review of existing studies and steps forward. Renewable and Sustainable Energy Reviews, 2017, 69, 719-734.	8.2	70
21	Tropical Montane Cloud Forests in the Orinoco river basin: The role of soil organic layers in water storage and release. Geoderma, 2017, 298, 14-26.	2.3	21
22	The scientific motivation of the internationally agreed â€˜well below 2 Â°Câ€™ climate protection target: a historical perspective. Current Opinion in Environmental Sustainability, 2017, 26-27, 134-142.	3.1	14
23	Tropical Montane Cloud Forests: Hydrometeorological variability in three neighbouring catchments with different forest cover. Journal of Hydrology, 2017, 552, 151-167.	2.3	21
24	Thermal comfort in urban green spaces: a survey on a Dutch university campus. International Journal of Biometeorology, 2017, 61, 87-101.	1.3	74
25	The dendrochronological potential of Baikiaea plurijuga in Zambia. Dendrochronologia, 2017, 41, 65-77.	1.0	10
26	Editorial overview: How to promote transdisciplinary, evidence-based sustainability solutions?. Current Opinion in Environmental Sustainability, 2017, 29, xii-xv.	3.1	4
27	Climate Change Threatens Major Tourist Attractions and Tourism in Serengeti National Park, Tanzania. Climate Change Management, 2017, , 375-392.	0.6	22
28	Mekong River flow and hydrological extremes under climate change. Hydrology and Earth System Sciences, 2016, 20, 3027-3041.	1.9	154
29	Why we need resilience thinking to meet societal challenges in bio-based production systems. Current Opinion in Environmental Sustainability, 2016, 23, 17-27.	3.1	51
30	Socio-Environmental Systems (SES) Research: what have we learned and how can we use this information in future research programs. Current Opinion in Environmental Sustainability, 2016, 19, 160-168.	3.1	89
31	The lessons learned from shifting from global-change research programmes to transdisciplinary sustainability science. Current Opinion in Environmental Sustainability, 2016, 19, 103-110.	3.1	42
32	Effects of urban green infrastructure (UGI) on local outdoor microclimate during the growing season. Environmental Monitoring and Assessment, 2015, 187, 732.	1.3	33
33	Preparing suitable climate scenario data to assess impacts on local food safety. Food Research International, 2015, 68, 31-40.	2.9	21
34	Fairly efficient, efficiently fair: Lessons from designing and testing payment schemes for ecosystem services in Asia. Ecosystem Services, 2015, 12, 16-28.	2.3	88
35	How models can support ecosystem-based management of coral reefs. Progress in Oceanography, 2015, 138, 559-570.	1.5	33
36	Effects of different management regimes on soil erosion and surface runoff in semi-arid to sub-humid rangelands. Journal of Arid Environments, 2015, 121, 100-111.	1.2	32

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37	Effects of urban trees on local outdoor microclimate: synthesizing field measurements by numerical modelling. Urban Ecosystems, 2015, 18, 1305-1331.	1.1	72
38	Exploring the climate change concerns of striped catfish producers in the Mekong Delta, Vietnam. SpringerPlus, 2015, 4, 46.	1.2	6
39	Effects of different management regimes on mangrove ecosystem services in Java, Indonesia. Ocean and Coastal Management, 2015, 116, 353-367.	2.0	47
40	No time for smokescreen skepticism: A rejoinder to Shani and Arad. Tourism Management, 2015, 47, 341-347.	5.8	19
41	Denying bogus skepticism in climate change and tourism research. Tourism Management, 2015, 47, 352-356.	5.8	24
42	On climate change skepticism and denial in tourism. Journal of Sustainable Tourism, 2015, 23, 4-25.	5.7	55
43	An Integrated Coral Reef Ecosystem Model to Support Resource Management under a Changing Climate. PLoS ONE, 2015, 10, e0144165.	1.1	37
44	Comparison of environmental performance for different waste management scenarios in East Africa: The case of Kampala City, Uganda. Habitat International, 2014, 44, 349-357.	2.3	31
45	Mapping and modelling trade-offs and synergies between grazing intensity and ecosystem services in rangelands using global-scale datasets and models. Global Environmental Change, 2014, 29, 223-234.	3.6	103
46	Climate-smart agriculture global research agenda: scientific basis for action. Agriculture and Food Security, 2014, 3, .	1.6	165
47	Simulated Impacts of Climate Change on Current Farming Locations of Striped Catfish (Pangasianodon) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	32
48	Transdisciplinary global change research: the co-creation of knowledge for sustainability. Current Opinion in Environmental Sustainability, 2013, 5, 420-431.	3.1	639
49	A spatially explicit scenario-driven model of adaptive capacity to global change in Europe. Global Environmental Change, 2013, 23, 1211-1224.	3.6	41
50	Collaboration between the natural, social and human sciences in Global Change Research. Environmental Science and Policy, 2013, 28, 25-35.	2.4	109
51	The determination of an optimal waste management scenario for Kampala, Uganda. Waste Management and Research, 2013, 31, 1203-1216.	2.2	23
52	Managing the current and future supply of ecosystem services in the Hungarian and Romanian Tisza River Basin. Regional Environmental Change, 2012, 12, 689-700.	1.4	16
53	Effective monitoring of agriculture: a response. Journal of Environmental Monitoring, 2012, 14, 738.	2.1	16
54	Responding to complex societal challenges: A decade of Earth System Science Partnership (ESSP) interdisciplinary research. Current Opinion in Environmental Sustainability, 2012, 4, 147-158.	3.1	39

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55	Global-change research to understand, handle and solve problems of a Planet under Pressure. Current Opinion in Environmental Sustainability, 2012, 4, 1-2.	3.1	33
56	The Impact of First-Generation Biofuels on the Depletion of the Global Phosphorus Reserve. Ambio, 2012, 41, 341-349.	2.8	58
57	Wood waste minimization in the timber sector of Ghana: a systems approach to reduce environmental impact. Journal of Cleaner Production, 2012, 26, 67-78.	4.6	27
58	A multi-scale modelling approach for analysing landscape service dynamics. Journal of Environmental Management, 2012, 100, 86-95.	3.8	87
59	Desertification in the Sahel: Towards better accounting for ecosystem dynamics in the interpretation of remote sensing images. Journal of Arid Environments, 2011, 75, 1164-1172.	1.2	77
60	LCA of the timber sector in Ghana: preliminary life cycle impact assessment (LCIA). International Journal of Life Cycle Assessment, 2011, 16, 625-638.	2.2	18
61	The Value of Conceptual Models in Coping with Complexity and Interdisciplinarity in Environmental Sciences Education. BioScience, 2011, 61, 802-814.	2.2	20
62	Science-Policy Interface: Beyond Assessments. Science, 2011, 333, 697-698.	6.0	36
63	Opportunities and Constraints for Climate Adaptation in Regional Water and Land Use Planning. Climate Change Management, 2011, , 669-692.	0.6	1
64	Inventory analysis of the timber industry in Ghana. International Journal of Life Cycle Assessment, 2010, 15, 715-725.	2.2	26
65	Adaptation to climate change and climate variability in European agriculture: The importance of farm level responses. European Journal of Agronomy, 2010, 32, 91-102.	1.9	376
66	Impacts, adaptation and vulnerability to global environmental change: challenges and pathways for an action-oriented research agenda for middle-income and low-income countries. Current Opinion in Environmental Sustainability, 2010, 2, 364-374.	3.1	47
67	Monitoring the world's agriculture. Nature, 2010, 466, 558-560.	13.7	127
68	Sustainability of forestry and timber industry in Ghana. International Forestry Review, 2010, 12, 383-395.	0.3	7
69	Simulation modelling and risk assessment as tools to identify the impact of climate change on microbiological food safety â€“ The case study of fresh produce supply chain. Food Research International, 2010, 43, 1925-1935.	2.9	102
70	Modelling recovery from soil acidification in European forests under climate change. Science of the Total Environment, 2009, 407, 5663-5673.	3.9	20
71	Vulnerability and adaptation of European farmers: a multi-level analysis of yield and income responses to climate variability. Regional Environmental Change, 2009, 9, 25.	1.4	81
72	The local impacts of climate change in the Ferlo, Western Sahel. Climatic Change, 2009, 93, 465-483.	1.7	23

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73	The importance of three centuries of land-use change for the global and regional terrestrial carbon cycle. Climatic Change, 2009, 97, 123-144.	1.7	59
74	A comparison of baseline methodologies for 'Reducing Emissions from Deforestation and Degradation'. Carbon Balance and Management, 2009, 4, 4.	1.4	53
75	Developing a common strategy for integrative global environmental change research and outreach: the Earth System Science Partnership (ESSP). Current Opinion in Environmental Sustainability, 2009, 1, 4-13.	3.1	65
76	Exploring earth system governance: A case study of floodplain management along the Tisza river in Hungary. Global Environmental Change, 2009, 19, 503-511.	3.6	41
77	BALANCE: an attempt to assess climate change impacts in the Barents Sea Region. Climatic Change, 2008, 87, 1-6.	1.7	9
78	A spatially explicit and quantitative vulnerability assessment of ecosystem service change in Europe. Regional Environmental Change, 2008, 8, 91-107.	1.4	118
79	A stakeholder dialogue on European vulnerability. Regional Environmental Change, 2008, 8, 109-124.	1.4	26
80	Training future experts in â€œbiodiversity and ecosystem servicesâ€• a progress report. Regional Environmental Change, 2008, 8, 125-134.	1.4	1
81	Quantifying the effectiveness of climate change mitigation through forest plantations and carbon sequestration with an integrated land-use model. Carbon Balance and Management, 2008, 3, 3.	1.4	43
82	A framework to identify appropriate spatial and temporal scales for modeling N flows from watersheds. Ecological Modelling, 2008, 212, 256-272.	1.2	6
83	Projected environmental shifts under climate change: European trends and regional impacts. Environmental Conservation, 2008, 35, .	0.7	51
84	Chapter Seven Scale Issues in Environmental Scenario Development. Developments in Integrated Environmental Assessment, 2008, , 151-168.	0.0	2
85	Sustainability or Collapse: What Can We Learn from Integrating the History of Humans and the Rest of Nature?. Ambio, 2007, 36, 522-527.	2.8	253
86	Global Desertification: Building a Science for Dryland Development. Science, 2007, 316, 847-851.	6.0	2,072
87	CO2and albedo climate impacts of extratropical carbon and biomass plantations. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	50
88	The Role of Forest Soils in the Global Carbon Cycle. , 2006, , 503-525.		13
89	Scientific Challenges for Anthropogenic Research in the 21st Century: Problems of Scale. , 2006, , 249-262.		2
90	Nature: the many benefits of ecosystem services. Nature, 2006, 443, 749-749.	13.7	69

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91	The vulnerability of ecosystem services to land use change. Agriculture, Ecosystems and Environment, 2006, 114, 69-85.	2.5	580
92	A coherent set of future land use change scenarios for Europe. Agriculture, Ecosystems and Environment, 2006, 114, 57-68.	2.5	412
93	Future scenarios of European agricultural land use. Agriculture, Ecosystems and Environment, 2005, 107, 117-135.	2.5	269
94	Future scenarios of European agricultural land use. Agriculture, Ecosystems and Environment, 2005, 107, 101-116.	2.5	414
95	Ecosystem Service Supply and Vulnerability to Global Change in Europe. Science, 2005, 310, 1333-1337.	6.0	1,355
96	A multidisciplinary multi-scale framework for assessing vulnerabilities to global change. International Journal of Applied Earth Observation and Geoinformation, 2005, 7, 253-267.	1.4	137
97	Understanding land-use change to reconstruct, describe or predict changes in land cover. Geo Journal, 2004, 61, 305-307.	1.7	7
98	The land-use projections and resulting emissions in the IPCC SRES scenarios scenarios as simulated by the IMAGE 2.2 model. Geo Journal, 2004, 61, 381-393.	1.7	102
99	Another reason for concern: regional and global impacts on ecosystems for different levels of climate change. Global Environmental Change, 2004, 14, 219-228.	3.6	171
100	The impact of land-cover modification on the June meteorology of China since 1700, simulated using a regional climate model. International Journal of Climatology, 2003, 23, 511-527.	1.5	22
101	Assessing effects of forecasted climate change on the diversity and distribution of European higher plants for 2050. Global Change Biology, 2002, 8, 390-407.	4.2	457
102	The causes of land-use and land-cover change: moving beyond the myths. Global Environmental Change, 2001, 11, 261-269.	3.6	2,639
103	The Future of Biodiversity in a Changing World. Ecological Studies, 2001, , 1-4.	0.4	2
104	The Use of Global-Change Scenarios to Determine Changes in Species and Habitats. Ecological Studies, 2001, , 23-45.	0.4	1
105	Defining the importance of including transient ecosystem responses to simulate C-cycle dynamics in a global change model. Global Change Biology, 2000, 6, 595-611.	4.2	32
106	Global Biodiversity Scenarios for the Year 2100 . Science, 2000, 287, 1770-1774.	6.0	7,077
107	Modelling for species and habitats: new opportunities for problem solving. Science of the Total Environment, 1999, 240, 51-73.	3.9	24
108	Boreal forest carbon stocks and wood supply: past, present and future responses to changing climate, agriculture and species availability. Agricultural and Forest Meteorology, 1997, 84, 137-151.	1.9	20

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109	Effects of Global Change on Agricultural Land Use: Scaling Up from Physiological Processes to Ecosystem Dynamics. , 1997, , 415-452.		2
110	Global and regional impacts of stabilizing atmospheric CO2. Mitigation and Adaptation Strategies for Global Change, 1997, 1, 341-361.	1.0	3
111	Land Use and Cover Change (LUCC) Open Science Meeting Royal Netherlands Academy of Arts and Sciences, Amsterdam, The Netherlands, 29â€“31 January 1996. Land Use Policy, 1996, 13, 332-334.	2.5	5
112	The land cover and carbon cycle consequences of large-scale utilizations of biomass as an energy source. Global Environmental Change, 1996, 6, 335-357.	3.6	74
113	Global models meet global policy. Global Environmental Change, 1996, 6, 255-259.	3.6	69
114	Stabilizing greenhouse gases: Global and regional consequences. Studies in Environmental Science, 1995, , 135-149.	0.0	2
115	Overview of IMAGE 2.0: An integrated model of climate change and the global environment. Studies in Environmental Science, 1995, 65, 1395-1399.	0.0	2
116	Determining the global significance of local and regional mitigation strategies: Setting the scene with global integrated assessment models. Environmental Monitoring and Assessment, 1995, 38-38, 205-216.	1.3	2
117	Remote sensing based modelling of the terrestrial carbon cycle of Europe. Studies in Environmental Science, 1995, 65, 567-570.	0.0	0
118	The Importance of Feedback Processes and Vegetation Transition in the Terrestrial Carbon Cycle. Journal of Biogeography, 1995, 22, 805.	1.4	18
119	Global and Regional Impacts of Stabilizing Atmospheric CO2. Mitigation and Adaptation Strategies for Global Change, 1995, 1, 341-361.	1.0	0
120	Evaluating changes in land cover and their importance for global change. Trends in Ecology and Evolution, 1995, 10, 76-81.	4.2	29
121	Changes in Land use and land cover: A global perspective. Trends in Ecology and Evolution, 1995, 10, 258-259.	4.2	1
122	Systems Models of Terrestrial Carbon Cycling. , 1995, , 129-151.		4
123	Modeling the global society-biosphere-climate system: Part 2: Computed scenarios. Water, Air, and Soil Pollution, 1994, 76, 37-78.	1.1	42
124	Determining the potential distribution of vegetation, crops and agricultural productivity. Water, Air, and Soil Pollution, 1994, 76, 133-161.	1.1	99
125	Simulating the carbon flux between the terrestrial environment and the atmosphere. Water, Air, and Soil Pollution, 1994, 76, 199-230.	1.1	69
126	Global vegetation change predicted by the modified Budyko model. Climatic Change, 1993, 25, 59-83.	1.7	68

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127	The global terrestrial carbon cycle. Water, Air, and Soil Pollution, 1993, 70, 19-37.	1.1	90
128	The interaction of climate and land use in future terrestrial carbon storage and release. Water, Air, and Soil Pollution, 1993, 70, 595-614.	1.1	44
129	Quantifying feedback processes in the response of the terrestrial carbon cycle to global change: The modeling approach of image-2. Water, Air, and Soil Pollution, 1993, 70, 615-628.	1.1	23
130	Special Paper: A Global Vegetation Model Based on the Climatological Approach of Budyko. Journal of Biogeography, 1993, 20, 129.	1.4	27
131	Assessing Impacts of Climate Change on Vegetation Using Climate Classification Systems. , 1993, , 190-217.		65
132	The Interaction of Climate and Land Use in Future Terrestrial Carbon Storage and Release. , 1993, , 595-614.		1
133	Special Paper: A Global Biome Model Based on Plant Physiology and Dominance, Soil Properties and Climate. Journal of Biogeography, 1992, 19, 117.	1.4	1,817
134	Simulation and future projection of succession in a Swedish broad-leaved forest. Forest Ecology and Management, 1992, 48, 305-319.	1.4	14
135	Comparing global vegetation maps with the Kappa statistic. Ecological Modelling, 1992, 62, 275-293.	1.2	871
136	Sensitivity of terrestrial carbon storage to CO2-induced climate change: Comparison of four scenarios based on general circulation models. Climatic Change, 1992, 21, 367-384.	1.7	156
137	The biological component of the simulation model for boreal forest dynamics. , 1992, , 428-445.		13
138	Sensitivity analysis of a forest succession model. Ecological Modelling, 1991, 53, 247-262.	1.2	39
139	Canopy gaps and establishment patterns of spruce (Picea abies (L.) Karst.) in two old-growth coniferous forests in central Sweden. Plant Ecology, 1991, 93, 157-165.	1.2	147
140	Description and simulation of tree-layer composition and size distributions in a primaeval Picea-Pinus forest. Plant Ecology, 1987, 69, 147-156.	1.2	76
141	Global environmental change and health: integrating knowledge from natural, socioeconomic and medical sciences. , 0, , 15-26.		1