

# Thomas Koellner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10556/publications.pdf>

Version: 2024-02-01

101  
papers

9,823  
citations

47006

47  
h-index

37204

96  
g-index

107  
all docs

107  
docs citations

107  
times ranked

13241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disentangling effects of climate and land use on biodiversity and ecosystem services – A multi-scale experimental design. <i>Methods in Ecology and Evolution</i> , 2022, 13, 514-527.	5.2	15
2	Plural valuation in space: mapping values of grasslands and their ecosystem services. <i>Ecosystems and People</i> , 2022, 18, 258-274.	3.2	6
3	Exploring global interregional food system's sustainability using the functional regions typology. <i>Global Environmental Change</i> , 2021, 68, 102276.	7.8	7
4	Ecosystem services from (pre-)Alpine grasslands: Matches and mismatches between citizens' perceived suitability and farmers' management considerations. <i>Ecosystem Services</i> , 2021, 49, 101284.	5.4	8
5	Volksbegehren Artenvielfalt: Gesetzesänderungen können auch Ökosystemdienstleistungen in Bayerns Agrarlandschaften stärken. <i>Gaia</i> , 2021, 30, 106-113.	0.7	7
6	Future projections of biodiversity and ecosystem services in Europe with two integrated assessment models. <i>Regional Environmental Change</i> , 2020, 20, 1.	2.9	14
7	Over 150 Years of Change: Object-Oriented Analysis of Historical Land Cover in the Main River Catchment, Bavaria/Germany. <i>Remote Sensing</i> , 2020, 12, 4048.	4.0	5
8	Quantifying interregional flows of multiple ecosystem services – A case study for Germany. <i>Global Environmental Change</i> , 2020, 61, 102051.	7.8	54
9	Guidance for assessing interregional ecosystem service flows. <i>Ecological Indicators</i> , 2019, 105, 92-106.	6.3	57
10	The use of agri-environmental measures to address environmental pressures in Germany: Spatial mismatches and options for improvement. <i>Land Use Policy</i> , 2019, 84, 347-362.	5.6	36
11	Mapping cultural ecosystem services 2.0 – Potential and shortcomings from unlabeled crowd sourced images. <i>Ecological Indicators</i> , 2019, 96, 505-515.	6.3	77
12	Land use change and ecosystem services in mountainous watersheds: Predicting the consequences of environmental policies with cellular automata and hydrological modeling. <i>Environmental Modelling and Software</i> , 2019, 122, 103982.	4.5	33
13	Interregional flows of ecosystem services: Concepts, typology and four cases. <i>Ecosystem Services</i> , 2018, 31, 231-241.	5.4	143
14	Pathways for agriculture and forestry to contribute to terrestrial biodiversity conservation: A global scenario-study. <i>Biological Conservation</i> , 2018, 221, 137-150.	4.1	72
15	Spatial correlation of agri-environmental measures with high levels of ecosystem services. <i>Ecological Indicators</i> , 2018, 84, 364-370.	6.3	22
16	Spatially explicit life cycle impact assessment for soil erosion from global crop production. <i>Ecosystem Services</i> , 2018, 30, 220-227.	5.4	25
17	Crop diversity and stability of revenue on farms in Central Europe: An analysis of big data from a comprehensive agricultural census in Bavaria. <i>PLoS ONE</i> , 2018, 13, e0207454.	2.5	20
18	Assessment and Governance of Sustainable Soil Management. <i>Sustainability</i> , 2018, 10, 4432.	3.2	23

#	ARTICLE	IF	CITATIONS
19	Farmersâ€™ and Consumersâ€™ Preferences for Drinking Water Quality Improvement through Land Management Practices: The Case Study of the Soyang Watershed in South Korea. Sustainability, 2018, 10, 1419.	3.2	0
20	Assessing resource-use efficiency of land use. Environmental Modelling and Software, 2018, 107, 34-49.	4.5	36
21	The Challenges of Applying Planetary Boundaries as a Basis for Strategic Decision-Making in Companies with Global Supply Chains. Sustainability, 2017, 9, 279.	3.2	78
22	Do Consumers of Environmentally Friendly Farming Products in Downstream Areas Have a WTP for Water Quality Protection in Upstream Areas?. Water (Switzerland), 2017, 9, 511.	2.7	7
23	Towards a National Ecosystem Assessment in Germany: A Plea for a Comprehensive Approach. Gaia, 2017, 26, 27-33.	0.7	8
24	Do Red Edge and Texture Attributes from High-Resolution Satellite Data Improve Wood Volume Estimation in a Semi-Arid Mountainous Region?. Remote Sensing, 2016, 8, 540.	4.0	37
25	Regional Patterns of Ecosystem Services in Cultural Landscapes. Land, 2016, 5, 17.	2.9	20
26	Conventional, Partially Converted and Environmentally Friendly Farming in South Korea: Profitability and Factors Affecting Farmersâ€™ Choice. Sustainability, 2016, 8, 704.	3.2	19
27	National ecosystem services mapping at multiple scales â€” The German exemplar. Ecological Indicators, 2016, 70, 357-372.	6.3	55
28	Mapping Fractional Land Use and Land Cover in a Monsoon Region: The Effects of Data Processing Options. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3941-3956.	4.9	6
29	Regional or global? The question of low-emission food sourcing addressed with spatial optimization modelling. Environmental Modelling and Software, 2016, 82, 128-141.	4.5	21
30	Pay the farmer, or buy the land?â€”Cost-effectiveness of payments for ecosystem services versus land purchases or easements in Central Kenya. Ecological Economics, 2016, 127, 59-67.	5.7	30
31	Towards mapping and assessing antarctic marine ecosystem services â€” The weddell sea case study. Ecosystem Services, 2016, 22, 174-192.	5.4	19
32	Crop selection under price and yield fluctuation: Analysis of agro-economic time series from South Korea. Agricultural Systems, 2016, 148, 1-11.	6.1	18
33	Current pathways towards good forest governance for ecosystem services in the former Soviet republic Tajikistan. Forest Policy and Economics, 2016, 63, 11-19.	3.4	12
34	Towards a national set of ecosystem service indicators: Insights from Germany. Ecological Indicators, 2016, 61, 38-48.	6.3	72
35	The Role of Vegetation in Mitigating Urban Land Surface Temperatures: A Case Study of Munich, Germany during the Warm Season. Sustainability, 2015, 7, 4689-4706.	3.2	125
36	Unveiling Undercover Cropland Inside Forests Using Landscape Variables: A Supplement to Remote Sensing Image Classification. PLoS ONE, 2015, 10, e0130079.	2.5	3

#	ARTICLE	IF	CITATIONS
37	Soil properties along a gradient from hillslopes to the savanna plains in the Lambwe Valley, Kenya. <i>Soil and Tillage Research</i> , 2015, 154, 75-83.	5.6	20
38	High-Resolution Assessment of Land Use Impacts on Biodiversity in Life Cycle Assessment Using Species Habitat Suitability Models. <i>Environmental Science &amp; Technology</i> , 2015, 49, 2237-2244.	10.0	47
39	Harmonizing the Assessment of Biodiversity Effects from Land and Water Use within LCA. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3584-3592.	10.0	51
40	Weakening the Brazilian legislation for forest conservation has severe impacts for ecosystem services in the Atlantic Southern Forest. <i>Land Use Policy</i> , 2015, 47, 1-11.	5.6	39
41	Interactions among ecosystem services across Europe: Bagplots and cumulative correlation coefficients reveal synergies, trade-offs, and regional patterns. <i>Ecological Indicators</i> , 2015, 49, 46-52.	6.3	132
42	Ecosystem engineer unleashed: <i>Prosopis juliflora</i> threatening ecosystem services?. <i>Regional Environmental Change</i> , 2015, 15, 155-167.	2.9	67
43	Flood exposure and settlement expansion since pre-industrial times in 1850 until 2011 in north Bavaria, Germany. <i>Regional Environmental Change</i> , 2015, 15, 183-193.	2.9	18
44	Driving Forces in Archetypical Land-Use Changes in a Mountainous Watershed in East Asia. <i>Land</i> , 2014, 3, 957-980.	2.9	36
45	Using the SWAT model to improve process descriptions and define hydrologic partitioning in South Korea. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 539-557.	4.9	33
46	Intergovernmental fiscal transfers to support local conservation action in Europe. <i>Zeitschrift Fur Wirtschaftsgeographie</i> , 2014, 58, 98-114.	1.2	19
47	Factors Influencing Households' Firewood Consumption in the Western Pamirs, Tajikistan. <i>Mountain Research and Development</i> , 2014, 34, 147-156.	1.0	26
48	Comparing direct land use impacts on biodiversity of conventional and organic milk-based on a Swedish case study. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 52-68.	4.7	24
49	An economic analysis of reforestation with a native tree species: the case of Vietnamese farmers. <i>Biodiversity and Conservation</i> , 2014, 23, 811-830.	2.6	28
50	Modeling land use decisions with Bayesian networks: Spatially explicit analysis of driving forces on land use change. <i>Environmental Modelling and Software</i> , 2014, 52, 222-233.	4.5	69
51	Conventional and organic farming: Soil erosion and conservation potential for row crop cultivation. <i>Geoderma</i> , 2014, 219-220, 89-105.	5.1	74
52	A Bayesian network approach to model farmers' crop choice using socio-psychological measurements of expected benefits of ecosystem services. <i>Environmental Modelling and Software</i> , 2014, 57, 227-234.	4.5	31
53	Mapping and modelling trade-offs and synergies between grazing intensity and ecosystem services in rangelands using global-scale datasets and models. <i>Global Environmental Change</i> , 2014, 29, 223-234.	7.8	103
54	Approaches to defining a planetary boundary for biodiversity. <i>Global Environmental Change</i> , 2014, 28, 289-297.	7.8	236

#	ARTICLE	IF	CITATIONS
55	A mid-term analysis of progress toward international biodiversity targets. <i>Science</i> , 2014, 346, 241-244.	12.6	949
56	Land management implications for ecosystem services in a South African rangeland. <i>Ecological Indicators</i> , 2014, 45, 692-703.	6.3	22
57	Synergies and tradeoffs between nitrate leaching and net farm income: The case of nitrogen best management practices in South Korea. <i>Agriculture, Ecosystems and Environment</i> , 2014, 186, 160-169.	5.3	16
58	Deriving a per-field land use and land cover map in an agricultural mosaic catchment. <i>Earth System Science Data</i> , 2014, 6, 339-352.	9.9	22
59	Land Use in Life Cycle Assessment: Global Characterization Factors Based on Regional and Global Potential Species Extinction. <i>Environmental Science &amp; Technology</i> , 2013, 47, 9281-9290.	10.0	136
60	Global land use impact assessment on biodiversity and ecosystem services in LCA. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1185-1187.	4.7	64
61	UNEP-SETAC guideline on global land use impact assessment on biodiversity and ecosystem services in LCA. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1188-1202.	4.7	275
62	Principles for life cycle inventories of land use on a global scale. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1203-1215.	4.7	111
63	Land use impacts on biodiversity in LCA: a global approach. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1216-1230.	4.7	259
64	Land use impacts on biodiversity in LCA: proposal of characterization factors based on functional diversity. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1231-1242.	4.7	86
65	Land use impacts on freshwater regulation, erosion regulation, and water purification: a spatial approach for a global scale level. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1253-1264.	4.7	101
66	A weighted, multi-method approach for accurate basin-wide streamflow estimation in an ungauged watershed. <i>Journal of Hydrology</i> , 2013, 494, 72-82.	5.4	17
67	Analysis of costs and people's willingness to enroll in forest rehabilitation in Gorno Badakhshan, Tajikistan. <i>Forest Policy and Economics</i> , 2013, 37, 75-83.	3.4	14
68	A blueprint for mapping and modelling ecosystem services. <i>Ecosystem Services</i> , 2013, 4, 4-14.	5.4	565
69	Do attitudes toward ecosystem services determine agricultural land use practices? An analysis of farmers' decision-making in a South Korean watershed. <i>Land Use Policy</i> , 2013, 31, 422-429.	5.6	89
70	Transformative optimisation of agricultural land use to meet future food demands. <i>PeerJ</i> , 2013, 1, e188.	2.0	16
71	An African account of ecosystem service provision: Use, threats and policy options for sustainable livelihoods. <i>Ecosystem Services</i> , 2012, 2, 71-81.	5.4	105
72	Quantifying and Mapping Ecosystem Services Supplies and Demands: A Review of Remote Sensing Applications. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8529-8541.	10.0	112

#	ARTICLE	IF	CITATIONS
73	Framework for systematic indicator selection to assess effects of land management on ecosystem services. <i>Ecological Indicators</i> , 2012, 21, 110-122.	6.3	354
74	Reconstructing the Spatio-Temporal Development of Irrigation Systems in Uzbekistan Using Landsat Time Series. <i>Remote Sensing</i> , 2012, 4, 3972-3994.	4.0	21
75	Toward Meaningful End Points of Biodiversity in Life Cycle Assessment. <i>Environmental Science &amp; Technology</i> , 2011, 45, 70-79.	10.0	173
76	Towards a general relationship between climate change and biodiversity: an example for plant species in Europe. <i>Regional Environmental Change</i> , 2011, 11, 143-150.	2.9	33
77	Assessment of land use impacts on soil ecological functions: development of spatially differentiated characterization factors within a Canadian context. <i>International Journal of Life Cycle Assessment</i> , 2011, 16, 198-211.	4.7	60
78	Crop production versus surface-water regulation: assessing tradeoffs for land-use scenarios in the Tat Hamlet Watershed, Vietnam. <i>International Journal of Biodiversity Science, Ecosystem Services &amp; Management</i> , 2011, 7, 231-244.	2.9	13
79	Future hotspots of terrestrial mammal loss. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2693-2702.	4.0	107
80	Projecting Land-Use Change and Its Consequences for Biodiversity in Northern Thailand. <i>Environmental Management</i> , 2010, 45, 626-639.	2.7	92
81	Why and how much are firms willing to invest in ecosystem services from tropical forests? A comparison of international and Costa Rican firms. <i>Ecological Economics</i> , 2010, 69, 2127-2139.	5.7	34
82	Scenarios for Global Biodiversity in the 21st Century. <i>Science</i> , 2010, 330, 1496-1501.	12.6	1,570
83	Decision-making by farmers regarding ecosystem services: Factors affecting soil conservation efforts in Costa Rica. <i>Land Use Policy</i> , 2010, 27, 1132-1142.	5.6	82
84	The impacts of roads and other infrastructure on mammal and bird populations: A meta-analysis. <i>Biological Conservation</i> , 2010, 143, 1307-1316.	4.1	693
85	GLOBIO3: A Framework to Investigate Options for Reducing Global Terrestrial Biodiversity Loss. <i>Ecosystems</i> , 2009, 12, 374-390.	3.4	396
86	Environmental Impacts of Conventional and Sustainable Investment Funds Compared Using Input-Output Life-Cycle Assessment. <i>Journal of Industrial Ecology</i> , 2008, 11, 41-60.	5.5	42
87	Assessment of land use impacts on the natural environment. <i>International Journal of Life Cycle Assessment</i> , 2008, 13, 32-48.	4.7	74
88	Corrigendum to: Koellner, T., S. Suh, O. Weber, C. Moser, and R.W. Scholz. 2007. Environmental impacts of conventional and sustainable investment funds compared using input-output life-cycle assessment. <i>Journal of Industrial Ecology</i> 11(3): 41-60. <i>Journal of Industrial Ecology</i> , 2008, 12, 628-628.	5.5	0
89	Assessment of the management of organizations supplying ecosystem services from tropical forests. <i>Global Environmental Change</i> , 2008, 18, 746-757.	7.8	16
90	The relation between the GRI indicators and the financial performance of firms. <i>Progress in Industrial Ecology</i> , 2008, 5, 236.	0.2	56

#	ARTICLE	IF	CITATIONS
91	Assessment of land use impacts on the natural environment. International Journal of Life Cycle Assessment, 2008, 13, 32-48.	4.7	86
92	Ecosystem services from tropical forestry projects – The choice of international market actors. Forest Policy and Economics, 2007, 9, 496-515.	3.4	17
93	Assessment of Land Use Impacts on the Natural Environment. Part 1: An Analytical Framework for Pure Land Occupation and Land Use Change (8 pp). International Journal of Life Cycle Assessment, 2007, 12, 16-23.	4.7	115
94	Biodiversity, Ecosystem Function, and Investment Risk. BioScience, 2006, 56, 977.	4.9	80
95	Influence of consumers' socioecological and economic orientations on preferences for wood products with sustainability labels. Forest Policy and Economics, 2006, 8, 239-250.	3.4	52
96	Decision criteria of European and Latin American market actors for tropical forestry projects providing environmental services. Ecological Economics, 2006, 58, 17-36.	5.7	26
97	Virtual land use and agricultural trade: Estimating environmental and socio-economic impacts. Ecological Economics, 2006, 57, 679-697.	5.7	120
98	Principles for sustainability rating of investment funds. Business Strategy and the Environment, 2005, 14, 54-70.	14.3	89
99	Rarefaction method for assessing plant species diversity on a regional scale. Ecography, 2004, 27, 532-544.	4.5	85
100	Land use in product life cycles and its consequences for ecosystem quality. International Journal of Life Cycle Assessment, 2002, 7, 130-130.	4.7	13
101	Species-pool effect potentials (SPEP) as a yardstick to evaluate land-use impacts on biodiversity. Journal of Cleaner Production, 2000, 8, 293-311.	9.3	87