

# Birgit MÃ¼ller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1811392/publications.pdf>

Version: 2024-02-01

44  
papers

4,664  
citations

257450

24  
h-index

345221

36  
g-index

44  
all docs

44  
docs citations

44  
times ranked

5180  
citing authors

#	ARTICLE	IF	CITATIONS
1	A standard protocol for describing individual-based and agent-based models. <i>Ecological Modelling</i> , 2006, 198, 115-126.	2.5	2,219
2	Describing human decisions in agent-based models – ODD+AD, an extension of the ODD protocol. <i>Environmental Modelling and Software</i> , 2013, 48, 37-48.	4.5	343
3	A framework for mapping and comparing behavioural theories in models of social-ecological systems. <i>Ecological Economics</i> , 2017, 131, 21-35.	5.7	302
4	Relating the philosophy and practice of ecological economics: The role of concepts, models, and case studies in inter- and transdisciplinary sustainability research. <i>Ecological Economics</i> , 2008, 67, 384-393.	5.7	145
5	Agent-Based Modelling of Social-Ecological Systems: Achievements, Challenges, and a Way Forward. <i>Jasss</i> , 2017, 20, .	1.8	139
6	Simple or complicated agent-based models? A complicated issue. <i>Environmental Modelling and Software</i> , 2016, 86, 56-67.	4.5	114
7	Uncertainty and sustainability in the management of rangelands. <i>Ecological Economics</i> , 2007, 62, 251-266.	5.7	113
8	Representation of decision-making in European agricultural agent-based models. <i>Agricultural Systems</i> , 2018, 167, 143-160.	6.1	108
9	Relevance of rest periods in non-equilibrium rangeland systems – A modelling analysis. <i>Agricultural Systems</i> , 2007, 92, 295-317.	6.1	97
10	Maladaptive outcomes of climate insurance in agriculture. <i>Global Environmental Change</i> , 2017, 46, 23-33.	7.8	86
11	An integrated community and ecosystem-based approach to disaster risk reduction in mountain systems. <i>Environmental Science and Policy</i> , 2019, 94, 143-152.	4.9	76
12	How much climate change can pastoral livelihoods tolerate? Modelling rangeland use and evaluating risk. <i>Global Environmental Change</i> , 2014, 24, 183-192.	7.8	73
13	Standardised and transparent model descriptions for agent-based models: Current status and prospects. <i>Environmental Modelling and Software</i> , 2014, 55, 156-163.	4.5	71
14	Advancing understanding of natural resource governance: a post-Ostrom research agenda. <i>Current Opinion in Environmental Sustainability</i> , 2020, 44, 26-34.	6.3	67
15	Livelihood security in face of drought – Assessing the vulnerability of pastoral households. <i>Environmental Modelling and Software</i> , 2016, 75, 414-423.	4.5	59
16	The potential of models and modeling for social-ecological systems research: the reference frame ModSES. <i>Ecology and Society</i> , 2019, 24, .	2.3	57
17	Spatiotemporal dynamics of ecosystem services provision in a degraded ecosystem: A systematic assessment in the Lake Urmia basin, Iran. <i>Science of the Total Environment</i> , 2020, 716, 137100.	8.0	56
18	LEARNING FROM LOCAL KNOWLEDGE: MODELING THE PASTORAL-NOMADIC RANGE MANAGEMENT OF THE HIMBA, NAMIBIA. , 2007, 17, 1857-1875.		49

#	ARTICLE	IF	CITATIONS
19	Pitfalls and potential of institutional change: Rain-index insurance and the sustainability of rangeland management. <i>Ecological Economics</i> , 2011, 70, 2137-2144.	5.7	48
20	Modelling food security: Bridging the gap between the micro and the macro scale. <i>Global Environmental Change</i> , 2020, 63, 102085.	7.8	47
21	How do individual farmers' objectives influence the evaluation of rangeland management strategies under a variable climate?. <i>Journal of Applied Ecology</i> , 2014, 51, 483-493.	4.0	42
22	Governmental response to climate risk: Model-based assessment of livestock supplementation in drylands. <i>Land Use Policy</i> , 2016, 54, 47-57.	5.6	39
23	How to avoid unsustainable side effects of managing climate risk in drylands – The supplementary feeding controversy. <i>Agricultural Systems</i> , 2015, 139, 153-165.	6.1	34
24	Combining social network analysis and agent-based modelling to explore dynamics of human interaction: A review. <i>Socio-Environmental Systems Modeling</i> , 0, 2, 16325.	0.0	34
25	Resilience trinity: safeguarding ecosystem functioning and services across three different time horizons and decision contexts. <i>Oikos</i> , 2020, 129, 445-456.	2.7	33
26	Simulation Models for Socioeconomic Inequalities in Health: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2013, 10, 5750-5780.	2.6	25
27	Ecologists Should Care about Insurance, too. <i>Trends in Ecology and Evolution</i> , 2016, 31, 1-2.	8.7	24
28	Ecological Vulnerability Through Insurance? Potential Unintended Consequences of Livestock Drought Insurance. <i>Ecological Economics</i> , 2019, 157, 357-368.	5.7	23
29	Implications of behavioral change for the resilience of pastoral systems – Lessons from an agent-based model. <i>Ecological Complexity</i> , 2019, 40, 100710.	2.9	18
30	Linking model design and application for transdisciplinary approaches in social-ecological systems. <i>Global Environmental Change</i> , 2021, 66, 102201.	7.8	17
31	How to make socio-environmental modelling more useful to support policy and management?. <i>People and Nature</i> , 2021, 3, 560-572.	3.7	17
32	Typologies of European farmers: approaches, methods and research gaps. <i>Regional Environmental Change</i> , 2022, 22, 1.	2.9	13
33	Towards thresholds of disaster management performance under demographic change: exploring functional relationships using agent-based modeling. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 2287-2301.	3.6	11
34	Formalising theories of human decision-making for agent-based modelling of social-ecological systems: practical lessons learned and ways forward. <i>Socio-Environmental Systems Modeling</i> , 0, 2, 16340.	0.0	11
35	Aligning Agent-Based Modeling With Multi-Objective Land-Use Allocation: Identification of Policy Gaps and Feasible Pathways to Biophysically Optimal Landscapes. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	10
36	Informal risk-sharing between smallholders may be threatened by formal insurance: Lessons from a stylized agent-based model. <i>PLoS ONE</i> , 2021, 16, e0248757.	2.5	10

#	ARTICLE	IF	CITATIONS
37	Agricultural insurance through the lens of rural household dietary diversity. <i>Global Food Security</i> , 2021, 28, 100485.	8.1	8
38	BESTMAP: behavioural, Ecological and Socio-economic Tools for Modelling Agricultural Policy. <i>Research Ideas and Outcomes</i> , 0, 6, .	1.0	8
39	Polarization in (post)nomadic resource use in Eastern Morocco: insights using a multi-agent simulation model. <i>Regional Environmental Change</i> , 2019, 19, 489-500.	2.9	6
40	MORE – Modeling for Resilience Thinking and Ecosystem Stewardship. <i>SSRN Electronic Journal</i> , 0, , .	0.4	6
41	Using Bayesian Belief Networks to Investigate Farmer Behavior and Policy Interventions for Improved Nitrogen Management. <i>Environmental Management</i> , 2022, 69, 1153-1166.	2.7	3
42	Ecological and financial strategies provide complementary benefits for smallholder climate resilience: insights from a simulation model. <i>Ecology and Society</i> , 2021, 26, .	2.3	1
43	Describing Human Decisions in Agent-Based Social-Ecological Models - ODD&#43;D an Extension of the ODD Protocol. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
44	Improving the design of climate insurance: combining empirical approaches and modelling. <i>Climate and Development</i> , 0, , 1-10.	3.9	1