

J Gareth Polhill

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	3,431 citations	18 h-index	58 g-index
85 ext. papers	4,070 ext. citations	3.8 avg, IF	5.25 L-index

#	Paper	IF	Citations
79	The ODD protocol: A review and first update. <i>Ecological Modelling</i> , 2010 , 221, 2760-2768	3	1549
78	Agent-based land-use models: a review of applications. <i>Landscape Ecology</i> , 2007 , 22, 1447-1459	4.3	571
77	The ODD Protocol for Describing Agent-Based and Other Simulation Models: A Second Update to Improve Clarity, Replication, and Structural Realism. <i>Jasss</i> , 2020 , 23,	4.8	167
76	The Complexities of Agent-Based Modeling Output Analysis. <i>Jasss</i> , 2015 , 18,	4.8	142
75	Agent-Based Simulation in the Study of Social Dilemmas. <i>Artificial Intelligence Review</i> , 2003 , 19, 3-92	9.7	87
74	Regime shifts in coupled socio-environmental systems: Review of modelling challenges and approaches. <i>Environmental Modelling and Software</i> , 2016 , 75, 333-347	5.2	78
73	IMITATIVE VERSUS NONIMITATIVE STRATEGIES IN A LAND-USE SIMULATION. <i>Cybernetics and Systems</i> , 2001 , 32, 285-307	1.9	64
72	Standardised and transparent model descriptions for agent-based models: Current status and prospects. <i>Environmental Modelling and Software</i> , 2014 , 55, 156-163	5.2	58
71	Computational Models That Matter During a Global Pandemic Outbreak: A Call to Action. <i>Jasss</i> , 2020 , 23,	4.8	58
70	Representation of decision-making in European agricultural agent-based models. <i>Agricultural Systems</i> , 2018 , 167, 143-160	6.1	57
69	Call for transparency of COVID-19 models. <i>Science</i> , 2020 , 368, 482-483	33.3	46
68	Using Qualitative Evidence to Enhance an Agent-Based Modelling System for Studying Land Use Change. <i>Jasss</i> , 2010 , 13,	4.8	38
67	Modelling systemic change in coupled socio-environmental systems. <i>Environmental Modelling and Software</i> , 2016 , 75, 318-332	5.2	32
66	Nonlinearities in biodiversity incentive schemes: A study using an integrated agent-based and metacommunity model. <i>Environmental Modelling and Software</i> , 2013 , 45, 74-91	5.2	29
65	ASPIRATION LEVELS IN A LAND USE SIMULATION. <i>Cybernetics and Systems</i> , 2003 , 34, 663-683	1.9	28
64	Transient and asymptotic dynamics of reinforcement learning in games. <i>Games and Economic Behavior</i> , 2007 , 61, 259-276	1.1	25
63	Modelling food security: Bridging the gap between the micro and the macro scale. <i>Global Environmental Change</i> , 2020 , 63, 102085	10.1	23

62	Ontologies for transparent integrated human-natural system modelling. <i>Landscape Ecology</i> , 2009 , 24, 1255-1267	4.3	19
61	Agent-based modelling of socio-ecological systems: Models, projects and ontologies. <i>Ecological Complexity</i> , 2019 , 40, 100728	2.6	18
60	Exploring factors affecting on-farm renewable energy adoption in Scotland using large-scale microdata. <i>Energy Policy</i> , 2017 , 107, 548-560	7.2	17
59	ODD Updated. <i>Jasss</i> , 2010 , 13,	4.8	16
58	Agent-based modelling of land use effects on ecosystem processes and services. <i>Journal of Land Use Science</i> , 2011 , 6, 75-81	2.7	15
57	Habitat networks and food security: promoting species range shift under climate change depends on life history and the dynamics of land use choices. <i>Landscape Ecology</i> , 2015 , 30, 771-789	4.3	14
56	The North East Scotland Energy Monitoring Project: Exploring relationships between household occupants and energy usage. <i>Energy and Buildings</i> , 2014 , 75, 493-503	7	14
55	What every agent-based modeller should know about floating point arithmetic. <i>Environmental Modelling and Software</i> , 2006 , 21, 283-309	5.2	13
54	Crossing the chasm: a Hype-map for agent-based social simulation of policy scenarios in spatially-distributed systems. <i>Geoinformatica</i> , 2019 , 23, 169-199	2.5	12
53	An Agent-Based Model for Simulating Environmental Behavior in an Educational Organization. <i>Neural Processing Letters</i> , 2015 , 42, 89-118	2.4	12
52	Documenting Social Simulation Models: The ODD Protocol as a Standard. <i>Understanding Complex Systems</i> , 2017 , 349-365	0.4	12
51	Documenting Social Simulation Models: The ODD Protocol as a Standard. <i>Understanding Complex Systems</i> , 2013 , 117-133	0.4	12
50	Exploring robustness of biodiversity policy with a coupled metacommunity and agent-based model. <i>Journal of Land Use Science</i> , 2011 , 6, 175-193	2.7	12
49	Too much of a good thing? Using a spatial agent-based model to evaluate 'unconventional' workplace sharing programmes. <i>Journal of Transport Geography</i> , 2018 , 69, 83-97	5.2	11
48	Enhancing workflow with a semantic description of scientific intent. <i>Web Semantics</i> , 2011 , 9, 222-244	2.9	11
47	Exploring sustainable land use in forested tropical social-ecological systems: A case-study in the Wet Tropics. <i>Journal of Environmental Management</i> , 2019 , 231, 940-952	7.9	10
46	e-Social Science and Evidence-Based Policy Assessment: Challenges and Solutions. <i>Social Science Computer Review</i> , 2009 , 27, 553-568	3.1	9
45	Effects of Land Markets on Competition Between Innovators and Imitators in Land Use 2008 , 81-97		9

44	Enhancing Workflow with a Semantic Description of Scientific Intent. <i>Lecture Notes in Computer Science</i> , 2008 , 644-658	0.9	9
43	An approach to guaranteeing generalisation in neural networks. <i>Neural Networks</i> , 2001 , 14, 1035-48	9.1	8
42	The Importance of Ontological Structure: Why Validation by Bit-to-Data Is Insufficient. <i>Understanding Complex Systems</i> , 2017 , 141-172	0.4	7
41	SIZE MATTERS: LARGE-SCALE REPLICATIONS OF EXPERIMENTS WITH FEARLUS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010 , 13, 453-467	0.8	7
40	Extracting OWL Ontologies from Agent-Based Models: A Netlogo Extension. <i>Jasss</i> , 2015 , 18,	4.8	7
39	Using Agent-Based Models for Prediction in Complex and Wicked Systems. <i>Jasss</i> , 2021 , 24,	4.8	7
38	A prototype cloud-based reproducible data analysis and visualization platform for outputs of agent-based models. <i>Environmental Modelling and Software</i> , 2017 , 96, 172-180	5.2	6
37	Testing Scenarios to Achieve Workplace Sustainability Goals Using Backcasting and Agent-Based Modeling. <i>Environment and Behavior</i> , 2017 , 49, 1007-1037	5.6	6
36	Keeping modelling notebooks with TRACE: Good for you and good for environmental research and management support. <i>Environmental Modelling and Software</i> , 2021 , 136, 104932	5.2	6
35	UK food and nutrition security during and after the COVID-19 pandemic. <i>Nutrition Bulletin</i> , 2021 , 46, 88-97	3.5	6
34	Transmission of pro-environmental norms in large organizations. <i>Sustainable Production and Consumption</i> , 2019 , 19, 25-32	8.2	5
33	Lessons learnt from the deployment of a semantic virtual research environment. <i>Web Semantics</i> , 2014 , 27-28, 70-77	2.9	5
32	Food and nutrition security under global trade: a relation-driven agent-based global trade model. <i>Royal Society Open Science</i> , 2021 , 8, 201587	3.3	5
31	Using provenance to analyse agent-based simulations 2013 ,		4
30	Semantic support for computational land-use modelling 2005 ,		4
29	Exploring the Combined Effect of Factors Influencing Commuting Patterns and CO2 Emissions in Aberdeen Using an Agent-Based Model. <i>Jasss</i> , 2016 , 19,	4.8	4
28	Experiments with a Model of Domestic Energy Demand. <i>Jasss</i> , 2017 , 20,	4.8	4
27	How Precise Are the Specifications of a Psychological Theory? Comparing Implementations of Lindenberg and Steg's Goal-Framing Theory of Everyday Pro-environmental Behaviour. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 341-354	0.4	4

26	Narrative Scenarios, Mediating Formalisms, and the Agent-Based Simulation of Land Use Change. <i>Lecture Notes in Computer Science</i> , 2009 , 99-116	0.9	4
25	Empirically-Derived Behavioral Rules in Agent-Based Models Using Decision Trees Learned from Questionnaire Data. <i>Understanding Complex Systems</i> , 2017 , 53-76	0.4	3
24	A semantic workflow mechanism to realise experimental goals and constraints 2008 ,		3
23	Agent-based modeling of socio-economic processes related to the environment: Example of land-use change. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009 , 61-76	0.3	3
22	Exploring sustainable scenarios in debt-based social-ecological systems: The case for palm oil production in Indonesia. <i>Ambio</i> , 2020 , 49, 1530-1548	6.5	3
21	Not one Brexit: How local context and social processes influence policy analysis. <i>PLoS ONE</i> , 2018 , 13, e0208451	3.7	3
20	Trajectories toward maximum power and inequality in resource distribution networks. <i>PLoS ONE</i> , 2020 , 15, e0229956	3.7	2
19	Editorial Agent-Based Modelling for Resilience. <i>Ecological Complexity</i> , 2019 , 40, 100775	2.6	2
18	Open Modelling for Simulators. <i>Advances in Knowledge Acquisition, Transfer and Management Book Series</i> , 2015 , 237-254	0.3	2
17	Tackling the challenge of interdisciplinary energy research: A research toolkit. <i>Energy Research and Social Science</i> , 2021 , 74, 101966	7.7	2
16	It's not the 'what', but the 'how': Exploring the role of debt in natural resource (un)sustainability. <i>PLoS ONE</i> , 2018 , 13, e0201141	3.7	2
15	Agent-based Models of Coupled Social and Natural Systems 2020 , 56-81		1
14	From oil wealth to green growth - An empirical agent-based model of recession, migration and sustainable urban transition. <i>Environmental Modelling and Software</i> , 2018 , 107, 119-140	5.2	1
13	Sinks, sustainability, and conservation incentives155-178		1
12	Designing Decision Trees for Representing Sustainable Behaviours in Agents. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 169-176	0.4	1
11	An Agent-Based Prototype for Enhancing Sustainability Behavior at an Academic Environment. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 257-264		1
10	A Decision-Making Model for Environmental Behavior in Agent-Based Modeling. <i>Lecture Notes in Computer Science</i> , 2013 , 152-160	0.9	1
9	Measuring heterogeneity in soil networks: a network analysis and simulation-based approach. <i>Ecological Modelling</i> , 2021 , 439, 109308	3	0

8	Interactions Matter: Modelling Everyday Pro-environmental Norm Transmission and Diffusion in Workplace Networks. <i>Understanding Complex Systems</i> , 2017 , 27-52	0.4
7	Lessons Learned Replicating the Analysis of Outputs from a Social Simulation of Biodiversity Incentivisation. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 355-365	0.4
6	Preliminary Results from an Agent-Based Model of the Daily Commute in Aberdeen and Aberdeenshire, UK. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 129-142	0.4
5	Projecting the effect of crop yield increases, dietary change and different price scenarios on land use under two different state security regimes. <i>International Journal of Agricultural Sustainability</i> , 2021 , 19, 288-304	2.2
4	Informing Agent-Based Models of Social Innovation Uptake. <i>Lecture Notes in Computer Science</i> , 2021 , 105-117	0.9
3	Sensitivity Analysis of an Empirical Agent-Based Model of District Heating Network Adoption. <i>Lecture Notes in Computer Science</i> , 2021 , 118-127	0.9
2	A NetLogo Extension to Secure Data Using GNUs Pretty Good Privacy Software Suite. <i>Springer Proceedings in Complexity</i> , 2021 , 299-312	0.3
1	Sensemaking of causality in agent-based models. <i>International Journal of Social Research Methodology: Theory and Practice</i> , 1-11	2.8