Steven M. Manson

List of Publications by Year
in descending order

55 papers	3,898 citations	201575 27 h-index	189801 50 g-index
61 all docs	61 docs citations	61 times ranked	3970 citing authors

#	Article	IF	Citations
1	Multi-Agent Systems for the Simulation of Land-Use and Land-Cover Change: A Review. Annals of the American Association of Geographers, 2003, 93, 314-337.	3.0	1,324
2	Simplifying complexity: a review of complexity theory. Geoforum, 2001, 32, 405-414.	1.4	572
3	Deforestation in the southern YucatÃ¡n peninsular region: an integrative approach. Forest Ecology and Management, 2001, 154, 353-370.	1.4	192
4	Projecting Global Land-Use Change and Its Effect on Ecosystem Service Provision and Biodiversity with Simple Models. PLoS ONE, 2010, 5, e14327.	1.1	191
5	Agent-based modeling and genetic programming for modeling land change in the Southern YucatÃ¡n Peninsular Region of Mexico. Agriculture, Ecosystems and Environment, 2005, 111, 47-62.	2.5	151
6	Agent-based modeling of deforestation in southern YucatÃ¡n, Mexico, and reforestation in the Midwest United States. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20678-20683.	3.3	118
7	Does scale exist? An epistemological scale continuum for complex humanâ€“environment systems. Geoforum, 2008, 39, 776-788.	1.4	106
8	Complexity Theory in the Study of Space and Place. Environment and Planning A, 2006, 38, 677-692.	2.1	89
9	Bounded rationality in agentâ€based models: experiments with evolutionary programs. International Journal of Geographical Information Science, 2006, 20, 991-1012.	2.2	76
10	Strategic directions for agent-based modeling: avoiding the YAAWN syndrome. Journal of Land Use Science, 2016, 11, 177-187.	1.0	70
11	Modeling the effect of social networks on adoption of multifunctional agriculture. Environmental Modelling and Software, 2016, 75, 388-401.	1.9	60
12	Case studies, cross-site comparisons, and the challenge of generalization: comparing agent-based models of land-use change in frontier regions. Journal of Land Use Science, 2008, 3, 41-72.	1.0	58
13	Heights and locations of artificial structures in viewshed calculation: How close is close enough?. Landscape and Urban Planning, 2007, 82, 257-270.	3.4	54
14	Complex systems models and the management of error and uncertainty. Journal of Land Use Science, 2008, 3, 11-25.	1.0	53
15	Multitemporal snow cover mapping in mountainous terrain for Landsat climate data record development. Remote Sensing of Environment, 2013, 135, 224-233.	4.6	53
16	Challenges in Evaluating Models of Geographic Complexity. Environment and Planning B: Planning and Design, 2007, 34, 245-260.	1.7	49
17	How Do You Measure Distance in Spatial Models? An Example Using Open-Space Valuation. Environment and Planning B: Planning and Design, 2010, 37, 874-894.	1.7	46
18	Do Physicists Have Geography Envy? And What Can Geographers Learn from It?. Annals of the American Association of Geographers, 2015, 105, 704-722.	3.0	41

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19	Principles of Geographical Information Systems: Spatial Information Systems and Geostatistics. Economic Geography, 1999, 75, 422.	2.1	40
20	Complexity Science, Complex Systems, and Land-Use Research. Environment and Planning B: Planning and Design, 2005, 32, 792-798.	1.7	40
21	Using Eye-tracking and Mouse Metrics to Test Usability of Web Mapping Navigation. Cartography and Geographic Information Science, 2012, 39, 48-60.	1.4	40
22	Land use in the southern YucatÃ¡n peninsular region of Mexico: Scenarios of population and institutional change. Computers, Environment and Urban Systems, 2006, 30, 230-253.	3.3	39
23	A comparison of illumination geometry-based methods for topographic correction of QuickBird images of an undulant area. ISPRS Journal of Photogrammetry and Remote Sensing, 2008, 63, 223-236.	4.9	36
24	Social networks in complex human and natural systems: the case of rotational grazing, weak ties, and eastern US dairy landscapes. Agriculture and Human Values, 2014, 31, 245-259.	1.7	36
25	Terra Populus: Workflows for Integrating and Harmonizing Geospatial Population and Environmental Data. Journal of Map and Geography Libraries, 2015, 11, 180-206.	0.1	31
26	Space, Place, and Complexity Science. Environment and Planning A, 2006, 38, 611-617.	2.1	30
27	Land system science and the socialâ€“environmental system: the case of Southern YucatÃ¡n Peninsular Region (SYPR) project. Current Opinion in Environmental Sustainability, 2016, 19, 18-29.	3.1	29
28	Resource Needs and Pedagogical Value of Web Mapping for Spatial Thinking. Journal of Geography, 2014, 113, 107-117.	1.8	24
29	Parcel Data for Research and Policy. Geography Compass, 2009, 3, 698-726.	1.5	22
30	Agent-Based Modeling and Complexity. , 2012, , 125-139.		20
31	Simulated Importance of Dispersal, Disturbance, and Landscape History in Long-Term Ecosystem Change in the Big Woods of Minnesota. Ecosystems, 2011, 14, 398-414.	1.6	18
32	Social Network Analysis of the Academic GIScience Community. Professional Geographer, 2011, 63, 18-33.	1.0	17
33	Spatio-temporal trend analysis of long-term development patterns (1900â€“2030) in a Southern Appalachian County. Landscape and Urban Planning, 2011, , .	3.4	16
34	Space, Complexity, and Agent-Based Modeling. Environment and Planning B: Planning and Design, 2007, 34, 196-199.	1.7	15
35	High performance analysis of big spatial data. , 2015, , .		14
36	Using word embeddings to generate data-driven human agent decision-making from natural language. GeoInformatica, 2019, 23, 221-242.	2.0	14

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37	Revealing the spatial shifting pattern of COVID-19 pandemic in the United States. Scientific Reports, 2021, 11, 8396.	1.6	14
38	Terra Populusâ€™ architecture for integrated big geospatial services. Transactions in GIS, 2017, 21, 546-559.	1.0	11
39	Decision Making and Uncertainty: Bayesian Analysis of Potential Flood Heights. Geographical Analysis, 2002, 34, 112-129.	1.9	10
40	Epistemological possibilities and imperatives of complexity research: a reply to Reitsma. Geoforum, 2003, 34, 17-20.	1.4	10
41	Intraurban Migration, Neighborhoods, and City Structure. Urban Geography, 2012, 33, 1008-1029.	1.7	10
42	Patterns in Residential Urban Forest Structure Along a Synthetic Urbanization Gradient. Annals of the American Association of Geographers, 2013, 103, 749-763.	3.0	9
43	Delineating West Nile Virus Transmission Cycles at Various Scales: The Nearest Neighbor Distanceâ€“Time Model. Cartography and Geographic Information Science, 2010, 37, 149-163.	1.4	6
44	Geographic Information Systems and Remote Sensing. , 2015, , 64-68.		6
45	Spatiotemporal aggregation for temporally extensive international microdata. Computers, Environment and Urban Systems, 2017, 63, 26-37.	3.3	6
46	Geospatial Research, Education and Outreach Efforts at the University of Minnesota. Cartography and Geographic Information Science, 2011, 38, 335-337.	1.4	4
47	Spatial variation of pneumonia hospitalization risk in Twin Cities metro area, Minnesota. Epidemiology and Infection, 2017, 145, 3274-3283.	1.0	4
48	IPUMS-Terra: integrated big heterogeneous spatiotemporal data analysis system. Journal of Geographical Systems, 2018, 20, 343-361.	1.9	4
49	Use of a Geographic Information System to create treatment groups for group-randomized community trials: The Minnesota Heart Health Program. Trials, 2019, 20, 185.	0.7	4
50	Terra Populus: Challenges and Opportunities with Heterogeneous Big Spatial Data. Advances in Geographic Information Science, 2017, , 115-121.	0.3	3
51	Catastrophe Modeling: A New Approach to Managing Risk, edited by Patricia Grossi and Howard Kunreuther. Journal of Regional Science, 2006, 46, 794-796.	2.1	2
52	Deserts in the Deluge: TerraPopulus and Big Human-Environment Data. International Conference on GIScience Short Paper Proceedings, 2016, 1, 183-186.	0.0	2
53	Geographic Information Systems and Science. , 2010, , 513-523.		1
54	Regionalization with Self-Organizing Maps for Sharing Higher Resolution Protected Health Information. Annals of the American Association of Geographers, 0, , 1-24.	1.5	1

#	Article	IF	Citations
55	Simulation Modeling. , 2020, , 207-212.		0