

# Steven M. Manson

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Revealing the spatial shifting pattern of COVID-19 pandemic in the United States. <i>Scientific Reports</i> , 2021, 11, 8396.	1.6	14
2	<i>Simulation Modeling.</i> , 2020, , 207-212.		0
3	Using word embeddings to generate data-driven human agent decision-making from natural language. <i>Geoinformatica</i> , 2019, 23, 221-242.	2.0	14
4	Use of a Geographic Information System to create treatment groups for group-randomized community trials: The Minnesota Heart Health Program. <i>Trials</i> , 2019, 20, 185.	0.7	4
5	IPUMS-Terra: integrated big heterogeneous spatiotemporal data analysis system. <i>Journal of Geographical Systems</i> , 2018, 20, 343-361.	1.9	4
6	Terra Populus: Challenges and Opportunities with Heterogeneous Big Spatial Data. <i>Advances in Geographic Information Science</i> , 2017, , 115-121.	0.3	3
7	Spatial variation of pneumonia hospitalization risk in Twin Cities metro area, Minnesota. <i>Epidemiology and Infection</i> , 2017, 145, 3274-3283.	1.0	4
8	Terra Populus™ architecture for integrated big geospatial services. <i>Transactions in GIS</i> , 2017, 21, 546-559.	1.0	11
9	Spatiotemporal aggregation for temporally extensive international microdata. <i>Computers, Environment and Urban Systems</i> , 2017, 63, 26-37.	3.3	6
10	Deserts in the Deluge: TerraPopulus and Big Human-Environment Data. <i>International Conference on GIScience Short Paper Proceedings</i> , 2016, 1, 183-186.	0.0	2
11	Land system science and the social environmental system: the case of Southern Yucatán Peninsular Region (SYPR) project. <i>Current Opinion in Environmental Sustainability</i> , 2016, 19, 18-29.	3.1	29
12	Modeling the effect of social networks on adoption of multifunctional agriculture. <i>Environmental Modelling and Software</i> , 2016, 75, 388-401.	1.9	60
13	Strategic directions for agent-based modeling: avoiding the YAAWN syndrome. <i>Journal of Land Use Science</i> , 2016, 11, 177-187.	1.0	70
14	High performance analysis of big spatial data. , 2015, , .		14
15	Do Physicists Have Geography Envy? And What Can Geographers Learn from It?. <i>Annals of the American Association of Geographers</i> , 2015, 105, 704-722.	3.0	41
16	<i>Geographic Information Systems and Remote Sensing.</i> , 2015, , 64-68.		6
17	Terra Populus: Workflows for Integrating and Harmonizing Geospatial Population and Environmental Data. <i>Journal of Map and Geography Libraries</i> , 2015, 11, 180-206.	0.1	31
18	Social networks in complex human and natural systems: the case of rotational grazing, weak ties, and eastern US dairy landscapes. <i>Agriculture and Human Values</i> , 2014, 31, 245-259.	1.7	36

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19	Resource Needs and Pedagogical Value of Web Mapping for Spatial Thinking. <i>Journal of Geography</i> , 2014, 113, 107-117.	1.8	24
20	Multitemporal snow cover mapping in mountainous terrain for Landsat climate data record development. <i>Remote Sensing of Environment</i> , 2013, 135, 224-233.	4.6	53
21	Patterns in Residential Urban Forest Structure Along a Synthetic Urbanization Gradient. <i>Annals of the American Association of Geographers</i> , 2013, 103, 749-763.	3.0	9
22	Intraurban Migration, Neighborhoods, and City Structure. <i>Urban Geography</i> , 2012, 33, 1008-1029.	1.7	10
23	Using Eye-tracking and Mouse Metrics to Test Usability of Web Mapping Navigation. <i>Cartography and Geographic Information Science</i> , 2012, 39, 48-60.	1.4	40
24	Agent-Based Modeling and Complexity. , 2012, , 125-139.		20
25	Social Network Analysis of the Academic GIScience Community. <i>Professional Geographer</i> , 2011, 63, 18-33.	1.0	17
26	Spatio-temporal trend analysis of long-term development patterns (1900â€“2030) in a Southern Appalachian County. <i>Landscape and Urban Planning</i> , 2011, , .	3.4	16
27	Simulated Importance of Dispersal, Disturbance, and Landscape History in Long-Term Ecosystem Change in the Big Woods of Minnesota. <i>Ecosystems</i> , 2011, 14, 398-414.	1.6	18
28	Geospatial Research, Education and Outreach Efforts at the University of Minnesota. <i>Cartography and Geographic Information Science</i> , 2011, 38, 335-337.	1.4	4
29	<i>Geographic Information Systems and Science</i> . , 2010, , 513-523.		1
30	How Do You Measure Distance in Spatial Models? An Example Using Open-Space Valuation. <i>Environment and Planning B: Planning and Design</i> , 2010, 37, 874-894.	1.7	46
31	Projecting Global Land-Use Change and Its Effect on Ecosystem Service Provision and Biodiversity with Simple Models. <i>PLoS ONE</i> , 2010, 5, e14327.	1.1	191
32	Delineating West Nile Virus Transmission Cycles at Various Scales: The Nearest Neighbor Distanceâ€“Time Model. <i>Cartography and Geographic Information Science</i> , 2010, 37, 149-163.	1.4	6
33	Parcel Data for Research and Policy. <i>Geography Compass</i> , 2009, 3, 698-726.	1.5	22
34	A comparison of illumination geometry-based methods for topographic correction of QuickBird images of an undulant area. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2008, 63, 223-236.	4.9	36
35	Does scale exist? An epistemological scale continuum for complex humanâ€“environment systems. <i>Geoforum</i> , 2008, 39, 776-788.	1.4	106
36	Complex systems models and the management of error and uncertainty. <i>Journal of Land Use Science</i> , 2008, 3, 11-25.	1.0	53

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37	Case studies, cross-site comparisons, and the challenge of generalization: comparing agent-based models of land-use change in frontier regions. <i>Journal of Land Use Science</i> , 2008, 3, 41-72.	1.0	58
38	Agent-based modeling of deforestation in southern Yucatán, Mexico, and reforestation in the Midwest United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20678-20683.	3.3	118
39	Space, Complexity, and Agent-Based Modeling. <i>Environment and Planning B: Planning and Design</i> , 2007, 34, 196-199.	1.7	15
40	Heights and locations of artificial structures in viewshed calculation: How close is close enough?. <i>Landscape and Urban Planning</i> , 2007, 82, 257-270.	3.4	54
41	Challenges in Evaluating Models of Geographic Complexity. <i>Environment and Planning B: Planning and Design</i> , 2007, 34, 245-260.	1.7	49
42	Bounded rationality in agent-based models: experiments with evolutionary programs. <i>International Journal of Geographical Information Science</i> , 2006, 20, 991-1012.	2.2	76
43	Catastrophe Modeling: A New Approach to Managing Risk, edited by Patricia Grossi and Howard Kunreuther. <i>Journal of Regional Science</i> , 2006, 46, 794-796.	2.1	2
44	Land use in the southern Yucatán peninsular region of Mexico: Scenarios of population and institutional change. <i>Computers, Environment and Urban Systems</i> , 2006, 30, 230-253.	3.3	39
45	Complexity Theory in the Study of Space and Place. <i>Environment and Planning A</i> , 2006, 38, 677-692.	2.1	89
46	Space, Place, and Complexity Science. <i>Environment and Planning A</i> , 2006, 38, 611-617.	2.1	30
47	Complexity Science, Complex Systems, and Land-Use Research. <i>Environment and Planning B: Planning and Design</i> , 2005, 32, 792-798.	1.7	40
48	Agent-based modeling and genetic programming for modeling land change in the Southern Yucatán Peninsular Region of Mexico. <i>Agriculture, Ecosystems and Environment</i> , 2005, 111, 47-62.	2.5	151
49	Epistemological possibilities and imperatives of complexity research: a reply to Reitsma. <i>Geoforum</i> , 2003, 34, 17-20.	1.4	10
50	Multi-Agent Systems for the Simulation of Land-Use and Land-Cover Change: A Review. <i>Annals of the American Association of Geographers</i> , 2003, 93, 314-337.	3.0	1,324
51	Decision Making and Uncertainty: Bayesian Analysis of Potential Flood Heights. <i>Geographical Analysis</i> , 2002, 34, 112-129.	1.9	10
52	Deforestation in the southern Yucatán peninsular region: an integrative approach. <i>Forest Ecology and Management</i> , 2001, 154, 353-370.	1.4	192
53	Simplifying complexity: a review of complexity theory. <i>Geoforum</i> , 2001, 32, 405-414.	1.4	572
54	Principles of Geographical Information Systems: Spatial Information Systems and Geostatistics. <i>Economic Geography</i> , 1999, 75, 422.	2.1	40

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55	Regionalization with Self-Organizing Maps for Sharing Higher Resolution Protected Health Information. <i>Annals of the American Association of Geographers</i> , 0, , 1-24.	1.5	1