Joseph P Messina

List of Publications by Year
in descending order

75 papers	2,010 citations	257101 24 h-index	276539 41 g-index
76 all docs	76 docs citations	76 times ranked	2774 citing authors

#	Article	IF	Citations
1	A case for green-based vegetation indices: plot-scale sUAS imagery related to crop chlorophyll content on smallholder maize farms in Malawi. Remote Sensing Letters, 2021, 12, 778-787.	0.6	3
2	The spatial restructuring and determinants of industrial landscape in a mega city under rapid urbanization. Habitat International, 2020, 95, 102099.	2.3	18
3	Crop climate suitability mapping on the cloud: a geovisualization application for sustainable agriculture. Scientific Reports, 2020, 10, 15487.	1.6	25
4	Leveraging big data for public health: Mapping malaria vector suitability in Malawi with Google Earth Engine. PLoS ONE, 2020, 15, e0235697.	1.1	11
5	Multi-Spatial Resolution Satellite and sUAS Imagery for Precision Agriculture on Smallholder Farms in Malawi. Photogrammetric Engineering and Remote Sensing, 2020, 86, 107-119.	0.3	14
6	Spatial Pattern of Agricultural Productivity Trends in Malawi. Sustainability, 2020, 12, 1313.	1.6	8
7	Population and Urban Dynamics in Drylands of China. Landscape Series, 2020, , 107-124.	0.1	6
8	Errors in Time-Series Remote Sensing and an Open Access Application for Detecting and Visualizing Spatial Data Outliers Using Google Earth Engine. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1165-1174.	2.3	5
9	PERENNIAL GRAINS FOR AFRICA: POSSIBILITY OR PIPEDREAM?. Experimental Agriculture, 2019, 55, 251-272.	0.4	19
10	A Multiscalar Approach to Mapping Marginal Agricultural Land: Smallholder Agriculture in Malawi. Annals of the American Association of Geographers, 2018, 108, 989-1005.	1.5	5
11	Scaling Agricultural Innovations: Pigeonpea in Malawi. Professional Geographer, 2018, 70, 239-250.	1.0	1
12	Toward a Common Ontology of Scaling Up in Development. Sustainability, 2018, 10, 835.	1.6	6
13	Re-evaluating the Malawian Farm Input Subsidy Programme. Nature Plants, 2017, 3, 17013.	4.7	35
14	Mapping Land Suitability for Agriculture in Malawi. Land Degradation and Development, 2017, 28, 2001-2016.	1.8	55
15	Nature-based agricultural solutions: Scaling perennial grains across Africa. Environmental Research, 2017, 159, 283-290.	3.7	28
16	MODIS land cover uncertainty in regional climate simulations. Climate Dynamics, 2017, 49, 4047-4059.	1.7	15
17	Costâ€“Benefit Analysis of Tsetse Fly Control in Tanzania. Papers in Applied Geography, 2017, 3, 182-195.	0.8	0
18	Multiscale Assessment of the Impacts of Climate Change on Water Resources in Tanzania. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	16

#	Article	IF	Citations
19	Explaining variation in adult Anopheles indoor resting abundance: the relative effects of larval habitat proximity and insecticide-treated bed net use. Malaria Journal, 2017, 16, 288.	0.8	13
20	Using meta-quality to assess the utility of volunteered geographic information for science. International Journal of Health Geographics, 2017, 16, 40.	1.2	12
21	Food System Resilience and Sustainability in Cambodia. International Journal of Applied Geospatial Research, 2017, 8, 53-75.	0.2	1
22	Smallholder Farms and the Potential for Sustainable Intensification. Frontiers in Plant Science, 2016, 7, 1720.	1.7	66
23	Understanding spatio-temporal variation of vegetation phenology and rainfall seasonality in the monsoon Southeast Asia. Environmental Research, 2016, 147, 621-629.	3.7	90
24	Does hospital competition improve health care delivery in China?. China Economic Review, 2015, 33, 179-199.	2.1	61
25	From meta-studies to modeling: Using synthesis knowledge to build broadly applicable process-based land change models. Environmental Modelling and Software, 2015, 72, 10-20.	1.9	33
26	An agent-based model to simulate tsetse fly distribution and control techniques: A case study in Nguruman, Kenya. Ecological Modelling, 2015, 314, 80-89.	1.2	24
27	Urban Built Environments, Accessibility, and Travel Behavior in a Declining Urban Core: The Extreme Conditions of Disinvestment and Suburbanization in the Detroit Region. Journal of Urban Affairs, 2014, 36, 225-255.	1.0	23
28	Modeling larval malaria vector habitat locations using landscape features and cumulative precipitation measures. International Journal of Health Geographics, 2014, 13, 17.	1.2	26
29	Regional health care planning: a methodology to cluster facilities using community utilization patterns. BMC Health Services Research, 2013, 13, 333.	0.9	21
30	The Burdens of Place: A Socio-economic and Ethnic/Racial Exploration into Urban Form, Accessibility and Travel Behaviour in the Lansing Capital Region, Michigan. Journal of Urban Design, 2013, 18, 1-35.	0.6	22
31	Exploration of sensor comparability: a case study of composite MODIS Aqua and Terra data. Remote Sensing Letters, 2013, 4, 599-608.	0.6	6
32	Different ontologies: land change science and health research. Current Opinion in Environmental Sustainability, 2013, 5, 515-521.	3.1	12
33	Evaluation of MODIS surrogates for meteorological humidity data in east Africa. International Journal of Remote Sensing, 2013, 34, 4669-4679.	1.3	6
34	Utilizing Volunteered Information for Infectious Disease Surveillance. International Journal of Applied Geospatial Research, 2013, 4, 54-70.	0.2	6
35	Do More Hospital Beds Lead to Higher Hospitalization Rates? A Spatial Examination of Roemerâ€™s Law. PLoS ONE, 2013, 8, e54900.	1.1	103
36	Distances in Residential Space: Implications from Estimated Metric Functions for Minimum Path Distances. GIScience and Remote Sensing, 2012, 49, 1-30.	2.4	15

#	Article	IF	Citations
37	Tsetse fly control in Kenyaâ€™s spatially and temporally dynamic control reservoirs: A cost analysis. Applied Geography, 2012, 34, 189-204.	1.7	11
38	A hybrid visual estimation method for the collection of ground truth fractional coverage data in a humid tropical environment. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 504-514.	1.4	17
39	Evaluation of estimating daily maximum and minimum air temperature with MODIS data in east Africa. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 128-140.	1.4	74
40	Measuring geographic access to health care: raster and network-based methods. International Journal of Health Geographics, 2012, 11, 15.	1.2	164
41	Climate Change and Risk Projection: Dynamic Spatial Models of Tsetse and African Trypanosomiasis in Kenya. Annals of the American Association of Geographers, 2012, 102, 1038-1048.	3.0	18
42	Spatial structure and landscape associations of SRTM error. Remote Sensing of Environment, 2011, 115, 1576-1587.	4.6	106
43	Population Vulnerability and Disability in Kenya's Tsetse Fly Habitats. PLoS Neglected Tropical Diseases, 2011, 5, e957.	1.3	14
44	Embracing the Open-Source Movement for Managing Spatial Data: A Case Study of African Trypanosomiasis in Kenya. Journal of Map and Geography Libraries, 2011, 7, 87-113.	0.1	3
45	Using Volunteered Geographic Information to Assess the Spatial Distribution of West Nile Virus in Detroit, Michigan. International Journal of Applied Geospatial Research, 2011, 2, 72-85.	0.2	6
46	A methodology for projecting hospital bed need: a Michigan case study. Source Code for Biology and Medicine, 2010, 5, 4.	1.7	6
47	The Influence of Land Cover on Shuttle Radar Topography Mission (SRTM) Elevations in Lowâ€relief Areas. Transactions in GIS, 2010, 14, 461-479.	1.0	29
48	A Landscape and Climate Data Logistic Model of Tsetse Distribution in Kenya. PLoS ONE, 2010, 5, e11809.	1.1	33
49	A dynamic species distribution model of Glossina subgenus Morsitans: The identification of tsetse reservoirs and refugia. Ecosphere, 2010, 1, 1-21.	1.0	24
50	Optimum land cover products for use in a Glossina-morsitans habitat model of Kenya. International Journal of Health Geographics, 2009, 8, 39.	1.2	9
51	Scenarios of future Amazonian landscapes: Econometric and dynamic simulation models. Geophysical Monograph Series, 2009, , 83-100.	0.1	2
52	The expansion of intensive agriculture and ranching in Brazilian Amazonia. Geophysical Monograph Series, 2009, , 61-81.	0.1	36
53	Complexity theory, spatial simulation models, and land use dynamics in the Northern Ecuadorian Amazon. Geoforum, 2008, 39, 867-878.	1.4	64
54	Land use change: complexity and comparisons. Journal of Land Use Science, 2008, 3, 1-10.	1.0	94

#	Article	IF	Citations
55	Complex systems models and the management of error and uncertainty. Journal of Land Use Science, 2008, 3, 11-25.	1.0	53
56	Multi-Sensor Data Fusion for Modeling African Palm in the Ecuadorian Amazon. Photogrammetric Engineering and Remote Sensing, 2008, 74, 711-723.	0.3	27
57	Exploring the Impacts of Pseudo-Random Number Generators on Sub-pixel Classification. GIScience and Remote Sensing, 2008, 45, 471-489.	2.4	4
58	Assessing Alternatives for Modeling the Spatial Distribution of Multiple Land-cover Classes at Sub-pixel Scales. Photogrammetric Engineering and Remote Sensing, 2007, 73, 935-943.	0.3	48
59	Neutral models and the deviation from neutral pattern metric. Ecological Informatics, 2007, 2, 43-47.	2.3	2
60	Source regions of lower-tropospheric airflow trajectories for the lower peninsula of Michigan: A 40-year air mass climatology. Journal of Geophysical Research, 2006, 111, .	3.3	11
61	Land tenure and deforestation patterns in the Ecuadorian Amazon: Conflicts in land conservation in frontier settings. Applied Geography, 2006, 26, 113-128.	1.7	55
62	Evaluating Michigan's community hospital access: spatial methods for decision support. International Journal of Health Geographics, 2006, 5, 42.	1.2	24
63	Space, Place, and Complexity Science. Environment and Planning A, 2006, 38, 611-617.	2.1	30
64	Moving beyond the Specialization: the Development of a Bachelor of Science Program in Geographic Information Science at Michigan State University. Geocarto International, 2006, 21, 67-73.	1.7	1
65	Towards an Ontologically-driven GIS to Characterize Spatial Data Uncertainty. , 2006, , 465-476.		2
66	Complexity Science, Complex Systems, and Land-Use Research. Environment and Planning B: Planning and Design, 2005, 32, 792-798.	1.7	40
67	Dynamic Spatial Simulation Modeling of the Population â€" Environment Matrix in the Ecuadorian Amazon. Environment and Planning B: Planning and Design, 2005, 32, 835-856.	1.7	26
68	A Complex Systems Approach to the Spatial and Temporal Simulation of Florida Bay Algal Communities. GIScience and Remote Sensing, 2004, 41, 228-243.	2.4	3
69	The Evaluation of the Subtle Effects of Image Preâ€Processing Levels and View Angles for Image Classification. Geocarto International, 2004, 19, 33-40.	1.7	2
70	Modeling the complexity of different, recently deglaciated soil landscapes as a function of map scale. Geoderma, 2004, 123, 115-130.	2.3	23
71	Deforestation of the Ecuadorian Amazon: Characterizing Patterns and Associated Drivers of Change. , 2004, , 299-304.		1
72	Unintended Consequences: The War on Drugs and Land Use and Cover Change in the Ecuadorian Amazon. , 2004, , 357-362.		0

#	Article	IF	Citations
73	Mapping, modeling, and visualization of the influences of geomorphic processes on the alpine treeline ecotone, Glacier National Park, MT, USA. Geomorphology, 2003, 53, 129-145.	1.1	50
74	2.5D Morphogenesis: modeling landuse and landcover dynamics in the Ecuadorian Amazon. , 2001, 156, 75-88.		74
75	‹title›Change detection in the Florida Bay using remote sensing‹/title›. , 1997, , .		5