

Joseph P Messina

List of Publications by Year in descending order

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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	Measuring geographic access to health care: raster and network-based methods. <i>International Journal of Health Geographics</i> , 2012, 11, 15.	1.2	164
2	Spatial structure and landscape associations of SRTM error. <i>Remote Sensing of Environment</i> , 2011, 115, 1576-1587.	4.6	106
3	Do More Hospital Beds Lead to Higher Hospitalization Rates? A Spatial Examination of Roemer's Law. <i>PLoS ONE</i> , 2013, 8, e54900.	1.1	103
4	Land use change: complexity and comparisons. <i>Journal of Land Use Science</i> , 2008, 3, 1-10.	1.0	94
5	Understanding spatio-temporal variation of vegetation phenology and rainfall seasonality in the monsoon Southeast Asia. <i>Environmental Research</i> , 2016, 147, 621-629.	3.7	90
6	2.5D Morphogenesis: modeling landuse and landcover dynamics in the Ecuadorian Amazon. , 2001, 156, 75-88.		74
7	Evaluation of estimating daily maximum and minimum air temperature with MODIS data in east Africa. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 128-140.	1.4	74
8	Smallholder Farms and the Potential for Sustainable Intensification. <i>Frontiers in Plant Science</i> , 2016, 7, 1720.	1.7	66
9	Complexity theory, spatial simulation models, and land use dynamics in the Northern Ecuadorian Amazon. <i>Geoforum</i> , 2008, 39, 867-878.	1.4	64
10	Does hospital competition improve health care delivery in China?. <i>China Economic Review</i> , 2015, 33, 179-199.	2.1	61
11	Land tenure and deforestation patterns in the Ecuadorian Amazon: Conflicts in land conservation in frontier settings. <i>Applied Geography</i> , 2006, 26, 113-128.	1.7	55
12	Mapping Land Suitability for Agriculture in Malawi. <i>Land Degradation and Development</i> , 2017, 28, 2001-2016.	1.8	55
13	Complex systems models and the management of error and uncertainty. <i>Journal of Land Use Science</i> , 2008, 3, 11-25.	1.0	53
14	Mapping, modeling, and visualization of the influences of geomorphic processes on the alpine treeline ecotone, Glacier National Park, MT, USA. <i>Geomorphology</i> , 2003, 53, 129-145.	1.1	50
15	Assessing Alternatives for Modeling the Spatial Distribution of Multiple Land-cover Classes at Sub-pixel Scales. <i>Photogrammetric Engineering and Remote Sensing</i> , 2007, 73, 935-943.	0.3	48
16	Complexity Science, Complex Systems, and Land-Use Research. <i>Environment and Planning B: Planning and Design</i> , 2005, 32, 792-798.	1.7	40
17	The expansion of intensive agriculture and ranching in Brazilian Amazonia. <i>Geophysical Monograph Series</i> , 2009, , 61-81.	0.1	36
18	Re-evaluating the Malawian Farm Input Subsidy Programme. <i>Nature Plants</i> , 2017, 3, 17013.	4.7	35

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19	A Landscape and Climate Data Logistic Model of Tsetse Distribution in Kenya. <i>PLoS ONE</i> , 2010, 5, e11809.	1.1	33
20	From meta-studies to modeling: Using synthesis knowledge to build broadly applicable process-based land change models. <i>Environmental Modelling and Software</i> , 2015, 72, 10-20.	1.9	33
21	Space, Place, and Complexity Science. <i>Environment and Planning A</i> , 2006, 38, 611-617.	2.1	30
22	The Influence of Land Cover on Shuttle Radar Topography Mission (SRTM) Elevations in Low-relief Areas. <i>Transactions in GIS</i> , 2010, 14, 461-479.	1.0	29
23	Nature-based agricultural solutions: Scaling perennial grains across Africa. <i>Environmental Research</i> , 2017, 159, 283-290.	3.7	28
24	Multi-Sensor Data Fusion for Modeling African Palm in the Ecuadorian Amazon. <i>Photogrammetric Engineering and Remote Sensing</i> , 2008, 74, 711-723.	0.3	27
25	Dynamic Spatial Simulation Modeling of the Population "Environment Matrix in the Ecuadorian Amazon. <i>Environment and Planning B: Planning and Design</i> , 2005, 32, 835-856.	1.7	26
26	Modeling larval malaria vector habitat locations using landscape features and cumulative precipitation measures. <i>International Journal of Health Geographics</i> , 2014, 13, 17.	1.2	26
27	Crop climate suitability mapping on the cloud: a geovisualization application for sustainable agriculture. <i>Scientific Reports</i> , 2020, 10, 15487.	1.6	25
28	Evaluating Michigan's community hospital access: spatial methods for decision support. <i>International Journal of Health Geographics</i> , 2006, 5, 42.	1.2	24
29	A dynamic species distribution model of <i>Glossina</i> subgenus <i>Morsitans</i> : The identification of tsetse reservoirs and refugia. <i>Ecosphere</i> , 2010, 1, 1-21.	1.0	24
30	An agent-based model to simulate tsetse fly distribution and control techniques: A case study in Nguruman, Kenya. <i>Ecological Modelling</i> , 2015, 314, 80-89.	1.2	24
31	Modeling the complexity of different, recently deglaciated soil landscapes as a function of map scale. <i>Geoderma</i> , 2004, 123, 115-130.	2.3	23
32	Urban Built Environments, Accessibility, and Travel Behavior in a Declining Urban Core: The Extreme Conditions of Disinvestment and Suburbanization in the Detroit Region. <i>Journal of Urban Affairs</i> , 2014, 36, 225-255.	1.0	23
33	The Burdens of Place: A Socio-economic and Ethnic/Racial Exploration into Urban Form, Accessibility and Travel Behaviour in the Lansing Capital Region, Michigan. <i>Journal of Urban Design</i> , 2013, 18, 1-35.	0.6	22
34	Regional health care planning: a methodology to cluster facilities using community utilization patterns. <i>BMC Health Services Research</i> , 2013, 13, 333.	0.9	21
35	PERENNIAL GRAINS FOR AFRICA: POSSIBILITY OR PIPEDREAM?. <i>Experimental Agriculture</i> , 2019, 55, 251-272.	0.4	19
36	Climate Change and Risk Projection: Dynamic Spatial Models of Tsetse and African Trypanosomiasis in Kenya. <i>Annals of the American Association of Geographers</i> , 2012, 102, 1038-1048.	3.0	18

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37	The spatial restructuring and determinants of industrial landscape in a mega city under rapid urbanization. <i>Habitat International</i> , 2020, 95, 102099.	2.3	18
38	A hybrid visual estimation method for the collection of ground truth fractional coverage data in a humid tropical environment. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 504-514.	1.4	17
39	Multiscale Assessment of the Impacts of Climate Change on Water Resources in Tanzania. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	0.8	16
40	Distances in Residential Space: Implications from Estimated Metric Functions for Minimum Path Distances. <i>GIScience and Remote Sensing</i> , 2012, 49, 1-30.	2.4	15
41	MODIS land cover uncertainty in regional climate simulations. <i>Climate Dynamics</i> , 2017, 49, 4047-4059.	1.7	15
42	Population Vulnerability and Disability in Kenya's Tsetse Fly Habitats. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e957.	1.3	14
43	Multi-Spatial Resolution Satellite and sUAS Imagery for Precision Agriculture on Smallholder Farms in Malawi. <i>Photogrammetric Engineering and Remote Sensing</i> , 2020, 86, 107-119.	0.3	14
44	Explaining variation in adult Anopheles indoor resting abundance: the relative effects of larval habitat proximity and insecticide-treated bed net use. <i>Malaria Journal</i> , 2017, 16, 288.	0.8	13
45	Different ontologies: land change science and health research. <i>Current Opinion in Environmental Sustainability</i> , 2013, 5, 515-521.	3.1	12
46	Using meta-quality to assess the utility of volunteered geographic information for science. <i>International Journal of Health Geographics</i> , 2017, 16, 40.	1.2	12
47	Source regions of lower-tropospheric airflow trajectories for the lower peninsula of Michigan: A 40-year air mass climatology. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	11
48	Tsetse fly control in Kenya's spatially and temporally dynamic control reservoirs: A cost analysis. <i>Applied Geography</i> , 2012, 34, 189-204.	1.7	11
49	Leveraging big data for public health: Mapping malaria vector suitability in Malawi with Google Earth Engine. <i>PLoS ONE</i> , 2020, 15, e0235697.	1.1	11
50	Optimum land cover products for use in a <i>Glossina-morsitans</i> habitat model of Kenya. <i>International Journal of Health Geographics</i> , 2009, 8, 39.	1.2	9
51	Spatial Pattern of Agricultural Productivity Trends in Malawi. <i>Sustainability</i> , 2020, 12, 1313.	1.6	8
52	A methodology for projecting hospital bed need: a Michigan case study. <i>Source Code for Biology and Medicine</i> , 2010, 5, 4.	1.7	6
53	Exploration of sensor comparability: a case study of composite MODIS Aqua and Terra data. <i>Remote Sensing Letters</i> , 2013, 4, 599-608.	0.6	6
54	Evaluation of MODIS surrogates for meteorological humidity data in east Africa. <i>International Journal of Remote Sensing</i> , 2013, 34, 4669-4679.	1.3	6

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55	Utilizing Volunteered Information for Infectious Disease Surveillance. <i>International Journal of Applied Geospatial Research</i> , 2013, 4, 54-70.	0.2	6
56	Toward a Common Ontology of Scaling Up in Development. <i>Sustainability</i> , 2018, 10, 835.	1.6	6
57	Using Volunteered Geographic Information to Assess the Spatial Distribution of West Nile Virus in Detroit, Michigan. <i>International Journal of Applied Geospatial Research</i> , 2011, 2, 72-85.	0.2	6
58	Population and Urban Dynamics in Drylands of China. <i>Landscape Series</i> , 2020, , 107-124.	0.1	6
59	<title>Change detection in the Florida Bay using remote sensing</title>. , 1997, , .		5
60	A Multiscalar Approach to Mapping Marginal Agricultural Land: Smallholder Agriculture in Malawi. <i>Annals of the American Association of Geographers</i> , 2018, 108, 989-1005.	1.5	5
61	Errors in Time-Series Remote Sensing and an Open Access Application for Detecting and Visualizing Spatial Data Outliers Using Google Earth Engine. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 1165-1174.	2.3	5
62	Exploring the Impacts of Pseudo-Random Number Generators on Sub-pixel Classification. <i>GIScience and Remote Sensing</i> , 2008, 45, 471-489.	2.4	4
63	A Complex Systems Approach to the Spatial and Temporal Simulation of Florida Bay Algal Communities. <i>GIScience and Remote Sensing</i> , 2004, 41, 228-243.	2.4	3
64	Embracing the Open-Source Movement for Managing Spatial Data: A Case Study of African Trypanosomiasis in Kenya. <i>Journal of Map and Geography Libraries</i> , 2011, 7, 87-113.	0.1	3
65	A case for green-based vegetation indices: plot-scale sUAS imagery related to crop chlorophyll content on smallholder maize farms in Malawi. <i>Remote Sensing Letters</i> , 2021, 12, 778-787.	0.6	3
66	The Evaluation of the Subtle Effects of Image Pre-Processing Levels and View Angles for Image Classification. <i>Geocarto International</i> , 2004, 19, 33-40.	1.7	2
67	Neutral models and the deviation from neutral pattern metric. <i>Ecological Informatics</i> , 2007, 2, 43-47.	2.3	2
68	Scenarios of future Amazonian landscapes: Econometric and dynamic simulation models. <i>Geophysical Monograph Series</i> , 2009, , 83-100.	0.1	2
69	Towards an Ontologically-driven GIS to Characterize Spatial Data Uncertainty. , 2006, , 465-476.		2
70	Moving beyond the Specialization: the Development of a Bachelor of Science Program in Geographic Information Science at Michigan State University. <i>Geocarto International</i> , 2006, 21, 67-73.	1.7	1
71	Food System Resilience and Sustainability in Cambodia. <i>International Journal of Applied Geospatial Research</i> , 2017, 8, 53-75.	0.2	1
72	Scaling Agricultural Innovations: Pigeonpea in Malawi. <i>Professional Geographer</i> , 2018, 70, 239-250.	1.0	1

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73	Deforestation of the Ecuadorian Amazon: Characterizing Patterns and Associated Drivers of Change. , 2004, , 299-304.		1
74	Costâ€“Benefit Analysis of Tsetse Fly Control in Tanzania. Papers in Applied Geography, 2017, 3, 182-195.	0.8	0
75	Unintended Consequences: The War on Drugs and Land Use and Cover Change in the Ecuadorian Amazon. , 2004, , 357-362.		0