

Tonny J Oyana

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

753
citations

471509

17
h-index

580821

25
g-index

51
all docs

51
docs citations

51
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping and spatial uncertainty analysis of forest vegetation carbon by combining national forest inventory data and satellite images. <i>Forest Ecology and Management</i> , 2009, 258, 1275-1283.	3.2	63
2	Geographic Clustering of Adult Asthma Hospitalization and Residential Exposure to Pollution at a United States–Canada Border Crossing. <i>American Journal of Public Health</i> , 2004, 94, 1250-1257.	2.7	50
3	Uncertainties of mapping aboveground forest carbon due to plot locations using national forest inventory plot and remotely sensed data. <i>Scandinavian Journal of Forest Research</i> , 2011, 26, 360-373.	1.4	44
4	Spatial Patterns and Health Disparities in Pediatric Lead Exposure in Chicago: Characteristics and Profiles of High-Risk Neighborhoods. <i>Professional Geographer</i> , 2010, 62, 46-65.	1.8	37
5	Assessing the impact of the 2004 tsunami on mangroves using remote sensing and GIS techniques. <i>International Journal of Remote Sensing</i> , 2008, 29, 3553-3576.	2.9	33
6	Augmented CWT Features for Deep Learning-Based Indoor Localization Using WiFi RSSI Data. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1806.	2.5	30
7	Association Between Traffic Volume and Health Care Use for Asthma Among Residents at a U.S.–Canadian Border Crossing Point. <i>Journal of Asthma</i> , 2004, 41, 289-304.	1.7	29
8	Modelling habitat overlap among sympatric mesocarnivores in southern Illinois, USA. <i>Ecological Modelling</i> , 2008, 215, 276-286.	2.5	29
9	Spatial relationships among asthma prevalence, health care utilization, and pollution sources in neighborhoods of Buffalo, New York. <i>Journal of Environmental Health</i> , 2004, 66, 25-37, 44.	0.5	28
10	Geographic variations of childhood asthma hospitalization and outpatient visits and proximity to ambient pollution sources at a U.S.–Canada border crossing. <i>International Journal of Health Geographics</i> , 2005, 4, 14.	2.5	25
11	Exploration of Preterm Birth Rates Using the Public Health Exposome Database and Computational Analysis Methods. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 12346-12366.	2.6	25
12	Spatial variations in the incidence of breast cancer and potential risks associated with soil dioxin contamination in Midland, Saginaw, and Bay Counties, Michigan, USA. <i>Environmental Health</i> , 2008, 7, 49.	4.0	24
13	Land-cover changes and potential impacts on soil erosion in the Nan watershed, Thailand. <i>International Journal of Remote Sensing</i> , 2011, 32, 6587-6609.	2.9	24
14	Scalable Combinatorial Tools for Health Disparities Research. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 10419-10443.	2.6	22
15	Geographic Analysis of Health Risks of Pediatric Lead Exposure: A Golden Opportunity to Promote Healthy Neighborhoods. <i>Archives of Environmental and Occupational Health</i> , 2007, 62, 93-104.	1.4	21
16	Exploring geographic disparities in broadband access and use in rural southern Illinois: Who's being left behind?. <i>Government Information Quarterly</i> , 2011, 28, 252-261.	6.8	21
17	An examination of historical and future land use changes in Uganda using change detection methods and agent-based modelling. <i>African Geographical Review</i> , 2016, 35, 247-271.	1.0	20
18	Spatiotemporal Distributions of Reported Cases of the Avian Influenza H5N1 (Bird Flu) in Southern China in Early 2004. <i>Avian Diseases</i> , 2006, 50, 508-515.	1.0	18

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19	A Scalable Field Study Protocol and Rationale for Passive Ambient Air Sampling: A Spatial Phytosampling for Leaf Data Collection. <i>Environmental Science & Technology</i> , 2017, 51, 10663-10673.	10.0	18
20	Risk factors for asthma prevalence and chronic respiratory illnesses among residents of different neighbourhoods in Buffalo, New York. <i>Journal of Epidemiology and Community Health</i> , 2004, 58, 951-957.	3.7	16
21	Land use and land cover change and its implications in Kagera river basin, East Africa. <i>African Geographical Review</i> , 2015, 34, 209-231.	1.0	16
22	Spatiotemporal patterns of childhood asthma hospitalization and utilization in Memphis Metropolitan Area from 2005 to 2015. <i>Journal of Asthma</i> , 2017, 54, 842-855.	1.7	16
23	Landscape metrics and change analysis of a national wildlife refuge at different spatial resolutions. <i>International Journal of Remote Sensing</i> , 2014, 35, 3109-3134.	2.9	14
24	Local Ecological Factors, Ultrafine Particulate Concentrations, and Asthma Prevalence Rates in Buffalo, New York, Neighborhoods. <i>Journal of Asthma</i> , 2005, 42, 337-348.	1.7	14
25	Using an External Exposome Framework to Examine Pregnancy-Related Morbidities and Mortalities: Implications for Health Disparities Research. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 13.	2.6	13
26	Detection of gullies in Fort Riley military installation using LiDAR derived high resolution DEM. <i>Journal of Terramechanics</i> , 2018, 77, 15-22.	3.1	13
27	A Critical Assessment of Geographic Clusters of Breast and Lung Cancer Incidences among Residents Living near the Tittabawassee and Saginaw Rivers, Michigan, USA. <i>Journal of Environmental and Public Health</i> , 2009, 2009, 1-16.	0.9	11
28	A field assessment of land use systems and soil properties at varied landscape positions in a fragile ecosystem of Mount Elgon, Uganda. <i>African Geographical Review</i> , 2015, 34, 83-103.	1.0	10
29	Geographic Variation in Mortality Among Children and Adolescents Diagnosed With Cancer in Tennessee. <i>Journal of Pediatric Oncology Nursing</i> , 2016, 33, 129-136.	1.5	10
30	A New-Fangled FES-k-Means Clustering Algorithm for Disease Discovery and Visual Analytics. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2010, 2010, 1-14.	1.4	6
31	Effects of childhood exposure to PM2.5 in a Memphis pediatric asthma cohort. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 330.	2.7	6
32	Local Ecological Factors, Ultrafine Particulate Concentrations, and Asthma Prevalence Rates in Buffalo, New York, Neighborhoods. <i>Journal of Asthma</i> , 2005, 42, 337-348.	1.7	6
33	Using diffusion-based cartograms for visual representation and exploratory analysis of plausible study hypotheses: the small and big belly effect. <i>Journal of Spatial Science</i> , 2011, 56, 103-120.	1.5	5
34	Predictive and epidemiologic modeling of the spatial risk of human onchocerciasis using biophysical factors: A case study of Ghana and Burundi. <i>Spatial and Spatio-temporal Epidemiology</i> , 2012, 3, 273-285.	1.7	5
35	The New and Computationally Efficient MIL-SOM Algorithm: Potential Benefits for Visualization and Analysis of a Large-Scale High-Dimensional Clinically Acquired Geographic Data. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-14.	1.3	4
36	Spatiotemporal Distributions of Reported Cases of the Avian Influenza H5N1 (Bird Flu) in Southern China in Early 2004. <i>Avian Diseases</i> , 2006, 50, 508.	1.0	4

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37	An Improved Genetic Algorithm for Spatial Clustering. , 2006, , .		3
38	Automatic cluster identification for environmental applications using the self-organizing maps and a new genetic algorithm. Geocarto International, 2010, 25, 53-69.	3.5	3
39	A Geospatial Implementation of a Novel Delineation Clustering Algorithm Employing the K-means. , 2008, , 135-157.		3
40	Socioeconomic determinants of planned methadone treatment. American Journal of Health Behavior, 2006, 30, 451-9.	1.4	3
41	A Mathematical Improvement of the Self-Organizing Map Algorithm. , 2006, , 522-531.		2
42	Parallel spatiotemporal autocorrelation and visualization system for large-scale remotely sensed images. Journal of Supercomputing, 2012, 59, 83-103.	3.6	2
43	Enabling Healthy Living. International Journal of Applied Geospatial Research, 2015, 6, 98-116.	0.3	2
44	Building capacity for geospatial cancer research in Uganda: a feasibility study. The Lancet Global Health, 2019, 7, S11.	6.3	2
45	A Creative Way to Teach and Learn Advanced Technical Concepts in Geographic Information Systems. Review of European Studies, 2012, 4, .	0.3	1
46	Particulate matter exposure predicts residence in high-risk areas for community acquired pneumonia among hospitalized children. Experimental Biology and Medicine, 2021, 246, 1907-1916.	2.4	1
47	Assessing Performance of Leaf Area Index in a Monitored Mountain Ecosystem on Mount Elgon-Uganda. International Journal of Applied Geospatial Research, 2017, 8, 64-80.	0.3	1
48	Assessing adaptability and response of vegetation to glacier recession in the afro-alpine moorland terrestrial ecosystem of Rwenzori Mountains. Journal of Mountain Science, 2016, 13, 1584-1597.	2.0	0
49	Assessing Performance of Leaf Area Index in a Monitored Mountain Ecosystem on Mount Elgon-Uganda. , 2019, , 791-808.		0