

# 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	Augmented CWT Features for Deep Learning-Based Indoor Localization Using WiFi RSSI Data. Applied Sciences (Switzerland), 2021, 11, 1806.	2.5	30
2	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
3	Effects of childhood exposure to PM2.5 in a Memphis pediatric asthma cohort. Environmental Monitoring and Assessment, 2019, 191, 330.	2.7	6
4	Building capacity for geospatial cancer research in Uganda: a feasibility study. The Lancet Global Health, 2019, 7, S11.	6.3	2
5	Assessing Performance of Leaf Area Index in a Monitored Mountain Ecosystem on Mount Elgon-Uganda. , 2019, , 791-808.		0
6	Detection of gullies in Fort Riley military installation using LiDAR derived high resolution DEM. Journal of Terramechanics, 2018, 77, 15-22.	3.1	13
7	Spatiotemporal patterns of childhood asthma hospitalization and utilization in Memphis Metropolitan Area from 2005 to 2015. Journal of Asthma, 2017, 54, 842-855.	1.7	16
8	A Scalable Field Study Protocol and Rationale for Passive Ambient Air Sampling: A Spatial Phytosampling for Leaf Data Collection. Environmental Science & Technology, 2017, 51, 10663-10673.	10.0	18
9	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
10	Using an External Exposome Framework to Examine Pregnancy-Related Morbidities and Mortalities: Implications for Health Disparities Research. International Journal of Environmental Research and Public Health, 2016, 13, 13.	2.6	13
11	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
12	An examination of historical and future land use changes in Uganda using change detection methods and agent-based modelling. African Geographical Review, 2016, 35, 247-271.	1.0	20
13	Geographic Variation in Mortality Among Children and Adolescents Diagnosed With Cancer in Tennessee. Journal of Pediatric Oncology Nursing, 2016, 33, 129-136.	1.5	10
14	Enabling Healthy Living. International Journal of Applied Geospatial Research, 2015, 6, 98-116.	0.3	2
15	A field assessment of land use systems and soil properties at varied landscape positions in a fragile ecosystem of Mount Elgon, Uganda. African Geographical Review, 2015, 34, 83-103.	1.0	10
16	Land use and land cover change and its implications in Kagera river basin, East Africa. African Geographical Review, 2015, 34, 209-231.	1.0	16
17	Exploration of Preterm Birth Rates Using the Public Health Exposome Database and Computational Analysis Methods. International Journal of Environmental Research and Public Health, 2014, 11, 12346-12366.	2.6	25
18	Landscape metrics and change analysis of a national wildlife refuge at different spatial resolutions. International Journal of Remote Sensing, 2014, 35, 3109-3134.	2.9	14

#	ARTICLE	IF	CITATIONS
19	Scalable Combinatorial Tools for Health Disparities Research. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 10419-10443.	2.6	22
20	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
21	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
22	A Creative Way to Teach and Learn Advanced Technical Concepts in Geographic Information Systems. <i>Review of European Studies</i> , 2012, 4, .	0.3	1
23	Parallel spatiotemporal autocorrelation and visualization system for large-scale remotely sensed images. <i>Journal of Supercomputing</i> , 2012, 59, 83-103.	3.6	2
24	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
25	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
26	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
27	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
28	Automatic cluster identification for environmental applications using the self-organizing maps and a new genetic algorithm. <i>Geocarto International</i> , 2010, 25, 53-69.	3.5	3
29	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
30	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
31	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
32	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
33	Modelling habitat overlap among sympatric mesocarnivores in southern Illinois, USA. <i>Ecological Modelling</i> , 2008, 215, 276-286.	2.5	29
34	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
35	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
36	A Geospatial Implementation of a Novel Delineation Clustering Algorithm Employing the K-means. , 2008, , 135-157.		3

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37	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
38	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
39	A Mathematical Improvement of the Self-Organizing Map Algorithm. , 2006, , 522-531.		2
40	An Improved Genetic Algorithm for Spatial Clustering. , 2006, , .		3
41	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
42	Socioeconomic determinants of planned methadone treatment. <i>American Journal of Health Behavior</i> , 2006, 30, 451-9.	1.4	3
43	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
44	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
45	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
46	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
47	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
48	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
49	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