Yuji MURAYAMA

List of Publications by Year
in descending order

106 papers	5,808 citations	81743 39 h-index	79541 73 g-index
112 all docs	112 docs citations	112 times ranked	4313 citing authors

#	Article	IF	Citations
1	Effects of landscape composition and pattern on land surface temperature: An urban heat island study in the megacities of Southeast Asia. Science of the Total Environment, 2017, 577, 349-359.	3.9	736
2	Sentinel-2 Data for Land Cover/Use Mapping: A Review. Remote Sensing, 2020, 12, 2291.	1.8	283
3	Drivers of urban growth in the Kathmandu valley, Nepal: Examining the efficacy of the analytic hierarchy process. Applied Geography, 2010, 30, 70-83.	1.7	204
4	Site Suitability Evaluation for Ecotourism Using GIS & AHP: A Case Study of Surat Thani Province, Thailand. Procedia, Social and Behavioral Sciences, 2011, 21, 269-278.	0.5	202
5	Monitoring surface urban heat island formation in a tropical mountain city using Landsat data (1987â€"2015). ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 133, 18-29.	4.9	180
6	Landscape pattern and ecosystem service value changes: Implications for environmental sustainability planning for the rapidly urbanizing summer capital of the Philippines. Landscape and Urban Planning, 2013, 116, 60-72.	3.4	179
7	An urban heat island study in Nanchang City, China based on land surface temperature and social-ecological variables. Sustainable Cities and Society, 2017, 32, 557-568.	5.1	163
8	Land evaluation for peri-urban agriculture using analytical hierarchical process and geographic information system techniques: A case study of Hanoi. Land Use Policy, 2008, 25, 225-239.	2.5	154
9	Classification and change detection of built-up lands from Landsat-7 ETM+ and Landsat-8 OLI/TIRS imageries: A comparative assessment of various spectral indices. Ecological Indicators, 2015, 56, 205-217.	2.6	146
10	Examining the potential impact of land use/cover changes on the ecosystem services of Baguio city, the Philippines: A scenario-based analysis. Applied Geography, 2012, 35, 316-326.	1.7	143
11	Examining Spatiotemporal Urbanization Patterns in Kathmandu Valley, Nepal: Remote Sensing and Spatial Metrics Approaches. Remote Sensing, 2009, 1, 534-556.	1.8	141
12	Scenario based urban growth allocation in Kathmandu Valley, Nepal. Landscape and Urban Planning, 2012, 105, 140-148.	3.4	129
13	An Urban Heat Island Study of the Colombo Metropolitan Area, Sri Lanka, Based on Landsat Data (1997â€"2017). ISPRS International Journal of Geo-Information, 2017, 6, 189.	1.4	123
14	Intensity and spatial pattern of urban land changes in the megacities of Southeast Asia. Land Use Policy, 2015, 48, 213-222.	2.5	121
15	Quantifying landscape pattern and ecosystem service value changes in four rapidly urbanizing hill stations of Southeast Asia. Landscape Ecology, 2016, 31, 1481-1507.	1.9	112
16	Spatiotemporal Analysis of Land Use/Land Cover and Its Effects on Surface Urban Heat Island Using Landsat Data: A Case Study of Metropolitan City Tehran (1988â€"2018). Sustainability, 2018, 10, 4433.	1.6	108
17	Bibliometric analysis of highly cited articles on ecosystem services. PLoS ONE, 2019, 14, e0210707.	1.1	108
18	Spatial Analysis of Surface Urban Heat Islands in Four Rapidly Growing African Cities. Remote Sensing, 2019, 11, 1645.	1.8	107

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19	Urban mapping, accuracy, & image classification: A comparison of multiple approaches in Tsukuba City, Japan. Applied Geography, 2009, 29, 135-144.	1.7	98
20	Urban growth modeling of Kathmandu metropolitan region, Nepal. Computers, Environment and Urban Systems, 2011, 35, 25-34.	3.3	98
21	Modelling of urban green space walkability: Eco-friendly walk score calculator. Computers, Environment and Urban Systems, 2011, 35, 408-420.	3.3	91
22	Spatiotemporal patterns of urban land use change in the rapidly growing city of Lusaka, Zambia: Implications for sustainable urban development. Sustainable Cities and Society, 2018, 39, 262-274.	5.1	83
23	A GIS Approach to Estimation of Building Population for Micro‐spatial Analysis. Transactions in GIS, 2009, 13, 401-414.	1.0	79
24	Land-Use/Land-Cover Changes and Their Impact on Surface Urban Heat Islands: Case Study of Kandy City, Sri Lanka. Climate, 2019, 7, 99.	1.2	77
25	Land Use and Natural Resources Planning for Sustainable Ecotourism Using GIS in Surat Thani, Thailand. Sustainability, 2012, 4, 412-429.	1.6	67
26	Spatiotemporal Analysis of Urban Growth Using GIS and Remote Sensing: A Case Study of the Colombo Metropolitan Area, Sri Lanka. ISPRS International Journal of Geo-Information, 2016, 5, 197.	1.4	67
27	The impact of railways on accessibility in the Japanese urban system. Journal of Transport Geography, 1994, 2, 87-100.	2.3	63
28	Spatial Changes of Urban Heat Island Formation in the Colombo District, Sri Lanka: Implications for Sustainability Planning. Sustainability, 2018, 10, 1367.	1.6	63
29	Forecasting Areas Vulnerable to Forest Conversion in the Tam Dao National Park Region, Vietnam. Remote Sensing, 2010, 2, 1249-1272.	1.8	60
30	Measuring Sustainability Based Upon Various Perspectives: A Case Study of a Hill Station in Southeast Asia. Ambio, 2014, 43, 943-956.	2.8	59
31	Scenario-based modelling for urban sustainability focusing on changes in cropland under rapid urbanization: A case study of Hangzhou from 1990 to 2035. Science of the Total Environment, 2019, 661, 422-431.	3.9	59
32	Impact of Landscape Structure on the Variation of Land Surface Temperature in Sub-Saharan Region: A Case Study of Addis Ababa using Landsat Data (1986â€"2016). Sustainability, 2019, 11, 2257.	1.6	58
33	Socialâ€"ecological status index: A preliminary study of its structural composition and application. Ecological Indicators, 2014, 43, 183-194.	2.6	53
34	Modeling Spatial Processes of Urban Growth in African Cities: A Case Study of Nairobi City. Urban Geography, 2010, 31, 259-272.	1.7	52
35	Spatiotemporal Simulation of Future Land Use/Cover Change Scenarios in the Tokyo Metropolitan Area. Sustainability, 2018, 10, 2056.	1.6	52
36	Relation between Urban Volume and Land Surface Temperature: A Comparative Study of Planned and Traditional Cities in Japan. Sustainability, 2018, 10, 2366.	1.6	49

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37	Quantifying Surface Urban Heat Island Formation in the World Heritage Tropical Mountain City of Sri Lanka. ISPRS International Journal of Geo-Information, 2018, 7, 341.	1.4	46
38	Pixel-based and object-based classifications using high- and medium-spatial-resolution imageries in the urban and suburban landscapes. Geocarto International, 2015, 30, 1113-1129.	1.7	44
39	Kathmandu. Cities, 2008, 25, 45-57.	2.7	43
40	The Impacts of Landscape Changes on Annual Mean Land Surface Temperature in the Tropical Mountain City of Sri Lanka: A Case Study of Nuwara Eliya (1996â€"2017). Sustainability, 2019, 11, 5517.	1.6	42
41	Impacts of Urbanization on the Muthurajawela Marsh and Negombo Lagoon, Sri Lanka: Implications for Landscape Planning towards a Sustainable Urban Wetland Ecosystem. Remote Sensing, 2021, 13, 316.	1.8	42
42	Suitability Analysis for Beekeeping Sites in La Union, Philippines, Using GIS and Multi-Criteria Evaluation Techniques. Research Journal of Applied Sciences, 2010, 5, 242-253.	0.1	41
43	Spatiotemporal analysis of urban growth in three African capital cities: A grid-cell-based analysis using remote sensing data. Journal of African Earth Sciences, 2016, 123, 381-391.	0.9	39
44	Spatial Forecasting of the Landscape in Rapidly Urbanizing Hill Stations of South Asia: A Case Study of Nuwara Eliya, Sri Lanka (1996â€"2037). Remote Sensing, 2019, 11, 1743.	1.8	39
45	Impact of Urban Surface Characteristics and Socio-Economic Variables on the Spatial Variation of Land Surface Temperature in Lagos City, Nigeria. Sustainability, 2019, 11, 25.	1.6	39
46	Spatiotemporal Analysis of Land Use/Cover Patterns and Their Relationship with Land Surface Temperature in Nanjing, China. Remote Sensing, 2020, 12, 440.	1.8	39
47	Analysis of Land Use/Cover Changes and Animal Population Dynamics in a Wildlife Sanctuary in East Africa. Remote Sensing, 2009, 1, 952-970.	1.8	38
48	Understanding the Links between LULC Changes and SUHI in Cities: Insights from Two-Decadal Studies (2001â€"2020). Remote Sensing, 2021, 13, 3654.	1.8	38
49	Impacts of Land Cover/Use on the Urban Thermal Environment: A Comparative Study of 10 Megacities in China. Remote Sensing, 2020, 12, 307.	1.8	37
50	Spatial Process of Surface Urban Heat Island in Rapidly Growing Seoul Metropolitan Area for Sustainable Urban Planning Using Landsat Data (1996â€"2017). Climate, 2019, 7, 110.	1.2	36
51	Delineation of Suitable Cropland Areas Using a GIS Based Multi-Criteria Evaluation Approach in the Tam Dao National Park Region, Vietnam. Sustainability, 2010, 2, 2024-2043.	1.6	30
52	Testing local spatial autocorrelation usingk-order neighbours. International Journal of Geographical Information Science, 2000, 14, 681-692.	2.2	28
53	Integrating Geospatial Techniques for Urban Land Use Classification in the Developing Sub-Saharan African City of Lusaka, Zambia. ISPRS International Journal of Geo-Information, 2017, 6, 102.	1.4	28
54	Multi-Decadal Forest-Cover Dynamics in the Tropical Realm: Past Trends and Policy Insights for Forest Conservation in Dry Zone of Sri Lanka. Forests, 2020, 11, 836.	0.9	27

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55	Urban Heat Island Formation in Greater Cairo: Spatio-Temporal Analysis of Daytime and Nighttime Land Surface Temperatures along the Urban–Rural Gradient. Remote Sensing, 2021, 13, 1396.	1.8	27
56	Change of Land Use/Cover in Tianjin City Based on the Markov and Cellular Automata Models. ISPRS International Journal of Geo-Information, 2017, 6, 150.	1.4	26
57	Spatio-Temporal Urban Land Use/Cover Change Analysis in a Hill Station: The Case of Baguio City, Philippines. Procedia, Social and Behavioral Sciences, 2011, 21, 326-335.	0.5	25
58	Simultaneous comparison and assessment of eight remotely sensed maps of Philippine forests. International Journal of Applied Earth Observation and Geoinformation, 2018, 67, 123-134.	1.4	25
59	Geospatial Analysis of Horizontal and Vertical Urban Expansion Using Multi-Spatial Resolution Data: A Case Study of Surabaya, Indonesia. Remote Sensing, 2018, 10, 1599.	1.8	25
60	A worldwide country-based assessment of social-ecological status (c. 2010) using the social-ecological status index. Ecological Indicators, 2017, 72, 605-614.	2.6	22
61	Land use/cover change detection and analysis for Dzalanyama forest reserve, Lilongwe, Malawi. Procedia, Social and Behavioral Sciences, 2011, 21, 203-211.	0.5	21
62	City Profile: Baguio. Cities, 2013, 30, 240-251.	2.7	21
63	Scenario-Based Simulation of Tianjin City Using a Cellular Automata–Markov Model. Sustainability, 2018, 10, 2633.	1.6	20
64	Progress in Geospatial Analysis. , 2012, , .		19
65	An Internet-Based GIS Platform Providing Data for Visualization and Spatial Analysis of Urbanization in Major Asian and African Cities. ISPRS International Journal of Geo-Information, 2017, 6, 257.	1.4	19
66	Quantifying the Cooling Effect and Scale of Large Inner-City Lakes Based on Landscape Patterns: A Case Study of Hangzhou and Nanjing. Remote Sensing, 2021, 13, 1526.	1.8	19
67	Spatial Analysis of Urbanization Patterns in Four Rapidly Growing South Asian Cities Using Sentinel-2 Data. Remote Sensing, 2021, 13, 1531.	1.8	18
68	Estimation of built-up and green volume using geospatial techniques: A case study of Surabaya, Indonesia. Sustainable Cities and Society, 2018, 37, 581-593.	5.1	17
69	Spatial Variation of Land Use/Cover Composition and Impact on Surface Urban Heat Island in a Tropical Sub-Saharan City of Accra, Ghana. Sustainability, 2020, 12, 7953.	1.6	17
70	A geospatial approach for detecting and characterizing non-stationarity of land-change patterns and its potential effect on modeling accuracy. GIScience and Remote Sensing, 2014, 51, 239-252.	2.4	16
71	Modeling deforestation in Dzalanyama Forest Reserve, Lilongwe, Malawi: a multi-agent simulation approach. Geo Journal, 2015, 80, 743-757.	1.7	15
72	Analysis of Life Quality in a Tropical Mountain City Using a Multi-Criteria Geospatial Technique: A Case Study of Kandy City, Sri Lanka. Sustainability, 2020, 12, 2918.	1.6	15

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73	Spatial Interconnections of Land Surface Temperatures with Land Cover/Use: A Case Study of Tokyo. Remote Sensing, 2021, 13, 610.	1.8	15
74	Reservoir Sedimentation and Flood Control: Using a Geographical Information System to Estimate Sediment Yield of the Songwe River Watershed in Malawi. Sustainability, 2011, 3, 254-269.	1.6	13
75	Evaluation of land cover classification based on multispectral versus pansharpened landsat ETM+ imagery. GIScience and Remote Sensing, 2013, 50, 458-472.	2.4	13
76	Decision Tree Algorithms for Developing Rulesets for Object-Based Land Cover Classification. ISPRS International Journal of Geo-Information, 2020, 9, 329.	1.4	13
77	Interdependences between Smallholder Farming and Environmental Management in Rural Malawi: A Case of Agriculture-Induced Environmental Degradation in Malingunde Extension Planning Area (EPA). Land, 2013, 2, 158-175.	1.2	11
78	Optimal Location Analysis of Delivery Parcel-Pickup Points Using AHP and Network Huff Model: A Case Study of Shiweitang Sub-District in Guangzhou City, China. ISPRS International Journal of Geo-Information, 2020, 9, 193.	1.4	11
79	Prioritizing Areas for Rehabilitation by Monitoring Change in Barangay-Based Vegetation Cover. ISPRS International Journal of Geo-Information, 2012, 1, 46-68.	1.4	10
80	Tsunami vulnerability assessment in the Southern Boso Peninsula, Japan. International Journal of Disaster Risk Reduction, 2014, 10, 190-200.	1.8	9
81	Simulating Scenarios of Future Intra-Urban Land-Use Expansion Based on the Neural Network–Markov Model: A Case Study of Lusaka, Zambia. Remote Sensing, 2021, 13, 942.	1.8	9
82	Sea navigation, challenges and potentials in South East Asia: an assessment of suitable sites for a shipping canal in the South Thai Isthmus. Geo Journal, 2007, 70, 161-172.	1.7	6
83	The Application of GIS in Education Administration: Protecting Students from Hazardous Roads. Transactions in GIS, 2009, 13, 105-123.	1.0	6
84	Person trip data browser, analyzer and space-time visualizer. , 2015, , .		6
85	A GIS-Based Bivariate Logistic Regression Model for the Site-Suitability Analysis of Parcel-Pickup Lockers: A Case Study of Guangzhou, China. ISPRS International Journal of Geo-Information, 2021, 10, 648.	1.4	6
86	Ecosystem Services Monitoring in the Muthurajawela Marsh and Negombo Lagoon, Sri Lanka, for Sustainable Landscape Planning. Sustainability, 2021, 13, 11463.	1.6	6
87	Characteristics of neighborhood interaction in urban land-use changes: A comparative study between three metropolitan areas of Japan. Journal of Chinese Geography, 2011, 21, 65-78.	1.5	5
88	Extending agent-based land-use/-cover change models to tropical deforestation: a focus on farm-based decision making in tropical subsistence farming. International Journal of Geographical Information Science, 2012, 26, 1881-1895.	2.2	5
89	Rodent Assemblages in the Mosaic of Habitat Types in the Zambezian Bioregion. Diversity, 2020, 12, 365.	0.7	5
90	Spatiotemporal Analysis of Urbanization Using GIS and Remote Sensing in Developing Countries. Sustainability, 2021, 13, 3681.	1.6	5

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91	Spatial Analysis of Inoh's Map Using GIS with the Focus on National Land Changes over 200 Years in Japan. Journal of Geography (Chigaku Zasshi), 2020, 129, 215-226.	0.1	5
92	On the spatiotemporal generalization of machine learning and ensemble models for simulating built‑up land expansion. Transactions in GIS, 2022, 26, 1080-1097.	1.0	5
93	Participatory GIS-Based Approach for the Demarcation of Village Boundaries and Their Utility: A Case Study of the Eastern Boundary of Wilpattu National Park, Sri Lanka. ISPRS International Journal of Geo-Information, 2022, 11, 17.	1.4	5
94	American influence on Japanese human geography: A focus on the quantitative and GIS revolutions. Geo Journal, 2004, 59, 73-76.	1.7	4
95	Introduction: Geospatial Analysis. , 2012, , 1-9.		4
96	Geography with GIS. Geo Journal, 2000, 52, 165-171.	1.7	3
97	The contribution of GIS to geographical research. Geo Journal, 2000, 52, 163-164.	1.7	2
98	Effects of environmental factors on the behaviour and nest group sizes of Smith's bush squirrels, Paraxerus cepapi, inÂa Zambezian bioregion. Mammalian Biology, 2021, 101, 555-566.	0.8	2
99	Geospatial Analysis of the Non-Surveyed (Estimated) Coastlines in Inohâ€™s Map, 1821. ISPRS International Journal of Geo-Information, 2021, 10, 580.	1.4	2
100	Multi-layer Perceptron Neural Networks in Geospatial Analysis. , 2012, , 125-141.		2
101	GIS Network Model in Geospatial Analysis. , 2012, , 183-194.		1
102	Identification of Suitability of Sites for Microenterprises for Value Chain Development: A Study in <scp>G</scp>azipur District, <scp>B</scp>angladesh. Growth and Change, 2015, 46, 274-291.	1.3	1
103	Modeling and predicting urban growth pattern of the Tokyo metropolitan area based on cellular automata. , 2008, , .		0
104	Urban Growth Modeling Using the Bayesian Probability Function. , 2012, , 197-214.		0
105	Watershed Evaluation Using Geospatial Techniques. , 2012, , 273-285.		0
106	Neighborhood Interaction in Urban Land-Use Changes Using Cellular Automata-Based Geo-Simulation. , 2012, , 237-251.		0