

Onisimo Mutanga

List of Publications by Year in descending order

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Version: 2024-02-01

273
papers

10,701
citations

44042

48
h-index

45285

90
g-index

277
all docs

277
docs citations

277
times ranked

8762
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimising Sentinel-2 MSI spatial resolution for estimating foliar nitrogen concentration in miombo woodlands. <i>Journal of Spatial Science</i> , 2023, 68, 107-121.	1.0	1
2	Using participatory GIS and collaborative management approaches to enhance local actors's participation in rangeland management: the case of Vulindlela, South Africa. <i>Journal of Environmental Planning and Management</i> , 2023, 66, 1189-1208.	2.4	2
3	Estimating leaf area index of the Yellowwood tree (<i>Podocarpus</i> spp.) in an indigenous Southern African Forest, using Sentinel 2 Multispectral Instrument data and the Random Forest regression ensemble. <i>Geocarto International</i> , 2022, 37, 6953-6974.	1.7	3
4	Estimating aboveground net primary productivity of reforested trees in an urban landscape using biophysical variables and remotely sensed data. <i>Science of the Total Environment</i> , 2022, 802, 149958.	3.9	10
5	Detecting and mapping the spatial distribution of <i>Chromolaena odorata</i> invasions in communal areas of South Africa using Sentinel-2 multispectral remotely sensed data. <i>Physics and Chemistry of the Earth</i> , 2022, 126, 103081.	1.2	4
6	Estimating urban LST using multiple remotely sensed spectral indices and elevation retrievals. <i>Sustainable Cities and Society</i> , 2022, 78, 103623.	5.1	11
7	Deep learning-based national scale soil organic carbon mapping with Sentinel-3 data. <i>Geoderma</i> , 2022, 411, 115695.	2.3	29
8	Mapping rangeland ecosystems vulnerability to <i>Lantana camara</i> invasion in semi-arid savannahs in South Africa. <i>African Journal of Ecology</i> , 2022, 60, 658-667.	0.4	4
9	Using local and indigenous knowledge in selecting indicators for mapping flood vulnerability in informal settlement contexts. <i>International Journal of Disaster Risk Reduction</i> , 2022, 71, 102836.	1.8	15
10	The use of multisource spatial data for determining the proliferation of stingless bees in Kenya. <i>GIScience and Remote Sensing</i> , 2022, 59, 648-669.	2.4	6
11	Determining the Capability of the Tree-Based Pipeline Optimization Tool (TPOT) in Mapping Parthenium Weed Using Multi-Date Sentinel-2 Image Data. <i>Remote Sensing</i> , 2022, 14, 1687.	1.8	5
12	Quantitative remote sensing of forest ecosystem services in sub-Saharan Africa's urban landscapes: a review. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 242.	1.3	3
13	Pansharpned landsat 8 thermal-infrared data for improved Land Surface Temperature characterization in a heterogeneous urban landscape. <i>Remote Sensing Applications: Society and Environment</i> , 2022, 26, 100728.	0.8	4
14	Determining the Influence of Long Term Urban Growth on Surface Urban Heat Islands Using Local Climate Zones and Intensity Analysis Techniques. <i>Remote Sensing</i> , 2022, 14, 2060.	1.8	10
15	Modelling soil organic carbon stock distribution across different land-uses in South Africa: A remote sensing and deep learning approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 188, 351-362.	4.9	17
16	Determining the onset of autumn grass senescence in subtropical sour-veld grasslands using remote sensing proxies and the breakpoint approach. <i>Ecological Informatics</i> , 2022, 69, 101651.	2.3	6
17	Mapping leaf area index of the Yellowwood tree species in an Afromontane mistbelt forest of southern Africa using topographic variables. <i>Remote Sensing Applications: Society and Environment</i> , 2022, 27, 100778.	0.8	0
18	A systematic review on the use of remote sensing technologies in quantifying grasslands ecosystem services. <i>GIScience and Remote Sensing</i> , 2022, 59, 1000-1025.	2.4	14

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19	Estimation of Maize Foliar Temperature and Stomatal Conductance as Indicators of Water Stress Based on Optical and Thermal Imagery Acquired Using an Unmanned Aerial Vehicle (UAV) Platform. <i>Drones</i> , 2022, 6, 169.	2.7	15
20	Mapping the spatial distribution of the yellowwood tree (<i>Podocarpus henkelii</i>) in the Weza-Ngele forest using the newly launched Sentinel-2 multispectral imager data. <i>Southern African Geographical Journal</i> , 2021, 103, 204-222.	0.9	5
21	Landscape Scale land degradation mapping in the semi-arid areas of the Save catchment, Zimbabwe. <i>Southern African Geographical Journal</i> , 2021, 103, 183-203.	0.9	9
22	Examining the effectiveness of Sentinel-1 and 2 imagery for commercial forest species mapping. <i>Geocarto International</i> , 2021, 36, 1-12.	1.7	25
23	Improving the unsupervised mapping of riparian bugweed in commercial forest plantations using hyperspectral data and LiDAR. <i>Geocarto International</i> , 2021, 36, 465-480.	1.7	3
24	Fire danger assessment using geospatial modelling in Mekong delta, Vietnam: Effects on wetland resources. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 21, 100456.	0.8	8
25	Quantitative assessment of grassland foliar moisture parameters as an inference on rangeland condition in the mesic rangelands of southern Africa. <i>International Journal of Remote Sensing</i> , 2021, 42, 1474-1491.	1.3	20
26	Progress in Remote Sensing of Grass Senescence: A Review on the Challenges and Opportunities. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 7714-7723.	2.3	8
27	Advancements in the remote sensing of landscape pattern of urban green spaces and vegetation fragmentation. <i>International Journal of Remote Sensing</i> , 2021, 42, 3797-3832.	1.3	45
28	Effect of landscape pattern and spatial configuration of vegetation patches on urban warming and cooling in Harare metropolitan city, Zimbabwe. <i>GIScience and Remote Sensing</i> , 2021, 58, 261-280.	2.4	23
29	Predicting medicinal phytochemicals of <i>Moringa oleifera</i> using hyperspectral reflectance of tree canopies. <i>International Journal of Remote Sensing</i> , 2021, 42, 3955-3980.	1.3	6
30	Understanding participatory GIS application in rangeland use planning: a review of PGIS practice in Africa. <i>Journal of Land Use Science</i> , 2021, 16, 174-187.	1.0	5
31	Optimal window period for mapping <i>Parthenium</i> weed in South Africa, using high temporal resolution imagery and the ExtraTrees classifier. <i>Biological Invasions</i> , 2021, 23, 2881-2892.	1.2	4
32	Estimating and Monitoring Land Surface Phenology in Rangelands: A Review of Progress and Challenges. <i>Remote Sensing</i> , 2021, 13, 2060.	1.8	21
33	UAV-based high-throughput phenotyping to increase prediction and selection accuracy in maize varieties under artificial MSV inoculation. <i>Computers and Electronics in Agriculture</i> , 2021, 184, 106128.	3.7	28
34	Investigating the Relationship between Tree Species Diversity and Landsat-8 Spectral Heterogeneity across Multiple Phenological Stages. <i>Remote Sensing</i> , 2021, 13, 2467.	1.8	14
35	Mapping the <i>Eucalyptus</i> spp woodlots in communal areas of Southern Africa using Sentinel-2 Multi-Spectral Imager data for hydrological applications. <i>Physics and Chemistry of the Earth</i> , 2021, 122, 102999.	1.2	11
36	Application of Drone Technologies in Surface Water Resources Monitoring and Assessment: A Systematic Review of Progress, Challenges, and Opportunities in the Global South. <i>Drones</i> , 2021, 5, 84.	2.7	41

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37	Leveraging of hyperspectral remote sensing on estimating biomass yield of <i>Moringa oleifera</i> Lam. medicinal plant. <i>South African Journal of Botany</i> , 2021, 140, 37-49.	1.2	0
38	Detecting and mapping invasive <i>Parthenium hysterophorus</i> L. along the northern coastal belt of KwaZulu-Natal, South Africa using image texture. <i>Scientific African</i> , 2021, 13, e00966.	0.7	1
39	Functional land cover scale for three insect pests with contrasting dispersal strategies in a fragmented coffee-based landscape in Central Kenya. <i>Agriculture, Ecosystems and Environment</i> , 2021, 319, 107558.	2.5	5
40	A Comparative Estimation of Maize Leaf Water Content Using Machine Learning Techniques and Unmanned Aerial Vehicle (UAV)-Based Proximal and Remotely Sensed Data. <i>Remote Sensing</i> , 2021, 13, 4091.	1.8	32
41	The Utility of Sentinel-2 MSI Data to Estimate Wetland Vegetation Leaf Area Index in Natural and Rehabilitated Wetlands. <i>Geographies</i> , 2021, 1, 178-191.	0.6	1
42	The Utility of Sentinel-2 Spectral Data in Quantifying Above-Ground Carbon Stock in an Urban Reforested Landscape. <i>Remote Sensing</i> , 2021, 13, 4281.	1.8	16
43	Characterizing bracken fern phenological cycle using time series data derived from Sentinel-2 satellite sensor. <i>PLoS ONE</i> , 2021, 16, e0257196.	1.1	2
44	Testing the value of freely available Landsat 8 Operational Land Imager (OLI) and OLI pan-sharpened imagery in discriminating commercial forest species. <i>Southern African Geographical Journal</i> , 2021, 103, 501-518.	0.9	0
45	Deep learning approaches in remote sensing of soil organic carbon: a review of utility, challenges, and prospects. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 802.	1.3	12
46	Modelling <i>Parthenium hysterophorus</i> invasion in KwaZulu-Natal province using remotely sensed data and environmental variables. <i>Geocarto International</i> , 2020, 35, 1450-1465.	1.7	11
47	Predicting the spatial suitability distribution of <i>Moringa oleifera</i> cultivation using analytical hierarchical process modelling. <i>South African Journal of Botany</i> , 2020, 129, 161-168.	1.2	23
48	Optimal season for discriminating C3 and C4 grass functional types using multi-date Sentinel 2 data. <i>GIScience and Remote Sensing</i> , 2020, 57, 127-139.	2.4	5
49	Remote estimation of nitrogen is more accurate at the start of the growing season when compared with end of the growing season in miombo woodlands. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 17, 100285.	0.8	2
50	Suitability of resampled multispectral datasets for mapping flowering plants in the Kenyan savannah. <i>PLoS ONE</i> , 2020, 15, e0232313.	1.1	0
51	A Hybrid Feature Method for Handling Redundant Features in a Sentinel-2 Multidate Image for Mapping <i>Parthenium</i> Weed. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 3644-3655.	2.3	4
52	Estimating soil organic carbon stocks under commercial forestry using topo-climate variables in KwaZulu-Natal, South Africa. <i>South African Journal of Science</i> , 2020, 116, .	0.3	8
53	UAV-Based Multispectral Phenotyping for Disease Resistance to Accelerate Crop Improvement under Changing Climate Conditions. <i>Remote Sensing</i> , 2020, 12, 2445.	1.8	34
54	Quantifying grass productivity using remotely sensed data: an assessment of grassland restoration benefits. <i>African Journal of Range and Forage Science</i> , 2020, 37, 247-256.	0.6	5

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55	Automated classification of a tropical landscape infested by Parthenium weed (Parthenium) Tj ETQq1 1 0.784314 r _g BT /Overlock 10 TFS	0.3	3
56	Rainfall Trend and Its Relationship with Normalized Difference Vegetation Index in a Restored Semi-Arid Wetland of South Africa. Sustainability, 2020, 12, 8919.	1.6	5
57	Mapping the spatial distribution of <i>Lantana camara</i> using high-resolution SPOT 6 data, in Mpumalanga communal areas, South Africa. Transactions of the Royal Society of South Africa, 2020, 75, 239-244.	0.8	2
58	Testing the utility of multivariate techniques in mapping commercial forest species using freely available Landsat 8 Operational Land Imager (OLI). Journal of Forest Research, 2020, 25, 354-357.	0.7	4
59	Spatially optimizing vegetation indices integrated with sparse partial least squares regression to detect and map the effects of <i>Gonipterus scutellatus</i> on the chlorophyll content of eucalyptus plantations. International Journal of Remote Sensing, 2020, 41, 6444-6459.	1.3	2
60	The impact of land-use/land cover changes on water balance of the heterogeneous Buzi sub-catchment, Zimbabwe. Remote Sensing Applications: Society and Environment, 2020, 18, 100292.	0.8	32
61	Predicting soil organic carbon stocks under commercial forest plantations in KwaZulu-Natal province, South Africa using remotely sensed data. GIScience and Remote Sensing, 2020, 57, 450-463.	2.4	26
62	A quantitative framework for analysing long term spatial clustering and vegetation fragmentation in an urban landscape using multi-temporal landsat data. International Journal of Applied Earth Observation and Geoinformation, 2020, 88, 102057.	1.4	36
63	Landscape fragmentation in coffee agroecological subzones in central Kenya: a multiscale remote sensing approach. Journal of Applied Remote Sensing, 2020, 14, .	0.6	6
64	Spectrometric proximally sensed data for estimating chlorophyll content of grasslands treated with complex fertilizer combinations. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	5
65	Discriminating tropical grasses grown under different nitrogen fertilizer regimes in KwaZulu-Natal, South Africa. , 2020, , 147-163.		0
66	Synergistic potential of dual-polarized synthetic aperture radar and multispectral optical imagery for invasive alien species detection and mapping. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	0
67	Evaluating the potential of the red edge channel for C3 (<i>Festuca</i> spp.) grass discrimination using Sentinel-2 and Rapid Eye satellite image data. Geocarto International, 2019, 34, 1123-1143.	1.7	19
68	Estimating LAI and mapping canopy storage capacity for hydrological applications in wattle infested ecosystems using Sentinel-2 MSI derived red edge bands. GIScience and Remote Sensing, 2019, 56, 68-86.	2.4	30
69	Discrimination of Tomato Plants (<i>Solanum lycopersicum</i>) Grown under Anaerobic Baffled Reactor Effluent, Nitrified Urine Concentrates and Commercial Hydroponic Fertilizer Regimes Using Simulated Sensor Spectral Settings. Agronomy, 2019, 9, 373.	1.3	3
70	Assessing edge effect on the spatial distribution of selected forest biochemical properties derived using the Worldview data in Dukuduku forests, South Africa. African Journal of Ecology, 2019, 57, 314-326.	0.4	3
71	Feature Selection on Sentinel-2 Multispectral Imagery for Mapping a Landscape Infested by Parthenium Weed. Remote Sensing, 2019, 11, 1892.	1.8	24
72	Multi-season RapidEye imagery improves the classification of wetland and dryland communities in a subtropical coastal region. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 157, 171-187.	4.9	25

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73	Remotely sensed retrieval of Local Climate Zones and their linkages to land surface temperature in Harare metropolitan city, Zimbabwe. <i>Urban Climate</i> , 2019, 27, 259-271.	2.4	51
74	Remote sensing equivalent water thickness of grass treated with different fertiliser regimes using resample HypSIRI and EnMAP data. <i>Physics and Chemistry of the Earth</i> , 2019, 112, 246-254.	1.2	3
75	Including shaded leaves in a sample affects the accuracy of remotely estimating foliar nitrogen. <i>GIScience and Remote Sensing</i> , 2019, 56, 1114-1127.	2.4	7
76	Remotely sensed C3 and C4 grass species aboveground biomass variability in response to seasonal climate and topography. <i>African Journal of Ecology</i> , 2019, 57, 477-489.	0.4	22
77	Google Earth Engine Applications. <i>Remote Sensing</i> , 2019, 11, 591.	1.8	262
78	Geospatial assessment of soil erosion vulnerability in the upper uMgeni catchment in KwaZulu Natal, South Africa. <i>Physics and Chemistry of the Earth</i> , 2019, 112, 50-57.	1.2	16
79	Assessing the potential of Sentinel-2 MSI sensor in detecting and mapping the spatial distribution of gullies in a communal grazing landscape. <i>Physics and Chemistry of the Earth</i> , 2019, 112, 66-74.	1.2	14
80	The Utility of the Upcoming HypSIRI's Simulated Spectral Settings in Detecting Maize Gray Leafy Spot in Relation to Sentinel-2 MSI, VENUS, and Landsat 8 OLI Sensors. <i>Agronomy</i> , 2019, 9, 846.	1.3	7
81	Mapping forest aboveground biomass in the reforested Buffelsdraai landfill site using texture combinations computed from SPOT-6 pan-sharpened imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 74, 65-77.	1.4	38
82	Advancements in satellite remote sensing for mapping and monitoring of alien invasive plant species (AIPs). <i>Physics and Chemistry of the Earth</i> , 2019, 112, 237-245.	1.2	59
83	Distribution of <i>Parthenium hysterophoru</i> L. with variation in rainfall using multi-year SPOT data and random forest classification. <i>Remote Sensing Applications: Society and Environment</i> , 2019, 13, 215-223.	0.8	7
84	Detection and mapping of maize streak virus using RapidEye satellite imagery. <i>Geocarto International</i> , 2019, 34, 856-866.	1.7	8
85	Detecting and mapping <i>Gonipterus scutellatus</i> induced vegetation defoliation using WorldView-2 pan-sharpened image texture combinations and an artificial neural network. <i>Journal of Applied Remote Sensing</i> , 2019, 13, 1.	0.6	13
86	Phenology-based discrimination of maize (<i>Zea mays</i> L.) varieties using multitemporal hyperspectral data. <i>Journal of Applied Remote Sensing</i> , 2019, 13, 1.	0.6	16
87	Exploring the spatial patterns of vegetation fragmentation using local spatial autocorrelation indices. <i>Journal of Applied Remote Sensing</i> , 2019, 13, 1.	0.6	22
88	Assessing the utility of topographic variables in predicting structural complexity of tree stands in a reforested urban landscape. <i>Urban Forestry and Urban Greening</i> , 2018, 31, 120-129.	2.3	8
89	Feature level image fusion of optical imagery and Synthetic Aperture Radar (SAR) for invasive alien plant species detection and mapping. <i>Remote Sensing Applications: Society and Environment</i> , 2018, 10, 198-208.	0.8	30
90	Mapping spatial variability of foliar nitrogen in coffee (<i>Coffea arabica</i> L.) plantations with multispectral Sentinel-2 MSI data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 138, 1-11.	4.9	50

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91	Evaluating the potential of freely available multispectral remotely sensed imagery in mapping American bramble (<i>Rubus cuneifolius</i>). Southern African Geographical Journal, 2018, 100, 291-307.	0.9	16
92	Characterizing the spatio-temporal variations of C3 and C4 dominated grasslands aboveground biomass in the Drakensberg, South Africa. International Journal of Applied Earth Observation and Geoinformation, 2018, 68, 51-60.	1.4	17
93	Detecting and mapping levels of <i>Gonipterus scutellatus</i> -induced vegetation defoliation and leaf area index using spatially optimized vegetation indices. Geocarto International, 2018, 33, 277-292.	1.7	12
94	Detection and mapping of bracken fern weeds using multispectral remotely sensed data: a review of progress and challenges. Geocarto International, 2018, 33, 209-224.	1.7	18
95	Estimating forest standing biomass in savanna woodlands as an indicator of forest productivity using the new generation WorldView-2 sensor. Geocarto International, 2018, 33, 178-188.	1.7	21
96	Predicting the distribution of C3 (<i>Festuca</i> spp.) grass species using topographic variables and binary logistic regression model. Geocarto International, 2018, 33, 489-504.	1.7	5
97	Determining extreme heat vulnerability of Harare Metropolitan City using multispectral remote sensing and socio-economic data. Journal of Spatial Science, 2018, 63, 173-191.	1.0	55
98	Testing the capability of spectral resolution of the new multispectral sensors on detecting the severity of grey leaf spot disease in maize crop. Geocarto International, 2018, 33, 1223-1236.	1.7	26
99	Multispectral mapping of key grassland nutrients in KwaZulu-Natal, South Africa. Journal of Spatial Science, 2018, 63, 155-172.	1.0	17
100	Outdoor thermal discomfort analysis in Harare, Zimbabwe in Southern Africa. Southern African Geographical Journal, 2018, 100, 162-179.	0.9	15
101	Detecting the severity of maize streak virus infestations in maize crop using in situ hyperspectral data. Transactions of the Royal Society of South Africa, 2018, 73, 8-15.	0.8	31
102	Machine learning prediction of coffee rust severity on leaves using spectroradiometer data. Tropical Plant Pathology, 2018, 43, 117-127.	0.8	27
103	Estimating tree species diversity in the savannah using NDVI and woody canopy cover. International Journal of Applied Earth Observation and Geoinformation, 2018, 66, 106-115.	1.4	32
104	Modelling Leaf Chlorophyll Content in Coffee (<i>Coffea Arabica</i>) Plantations Using Sentinel 2 Msi Data. , 2018, , .		2
105	Predicting Urban Growth and Implication on Urban Thermal Characteristics in Harare, Zimbabwe. , 2018, , .		1
106	Determining Optimal New Generation Satellite Derived Metrics for Accurate C3 and C4 Grass Species Aboveground Biomass Estimation in South Africa. Remote Sensing, 2018, 10, 564.	1.8	11
107	Monitoring the Spatio-Temporal Variations of C3/C4 Grass Species Using Multispectral Satellite Data. , 2018, , .		3
108	Google Earth Engine Applications Since Inception: Usage, Trends, and Potential. Remote Sensing, 2018, 10, 1509.	1.8	402

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109	The Impact of Simulated Spectral Noise on Random Forest and Oblique Random Forest Classification Performance. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-8.	0.6	8
110	A Comparison of Regression Tree Approaches to Modelling the Efficacy of Water Hyacinth Biocontrol Using Multitemporal Spectral Datasets. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-11.	0.6	1
111	Evaluating the Applications of the Near-Infrared Region in Mapping Foliar N in the Miombo Woodlands. <i>Remote Sensing</i> , 2018, 10, 505.	1.8	9
112	Testing the spectral resolutions of the new multispectral sensors for detecting <i>Phaeosphaeria</i> leaf spot (PLS) infestations in maize crop. <i>South African Journal of Geomatics</i> , 2018, 7, 1.	0.1	2
113	Modelling potential distribution of bramble (<i>rubus cuneifolius</i>) using topographic, bioclimatic and remotely sensed data in the KwaZulu-Natal Drakensberg, South Africa. <i>Applied Geography</i> , 2018, 99, 54-62.	1.7	15
114	Mapping foliar N in miombo woodlands using sentinel-2 derived chlorophyll and structural indices. <i>Journal of Applied Remote Sensing</i> , 2018, 12, 1.	0.6	6
115	Land surface temperature and emissivity estimation for Urban Heat Island assessment using medium- and low-resolution space-borne sensors: A review. <i>Geocarto International</i> , 2017, 32, 455-470.	1.7	37
116	Determination of urban land-cover types and their implication on thermal characteristics in three South African coastal metropolitans using remotely sensed data. <i>Southern African Geographical Journal</i> , 2017, 99, 52-67.	0.9	17
117	Developing detailed age-specific thematic maps for coffee (<i>Coffea arabica</i> L.) in heterogeneous agricultural landscapes using random forests applied on Landsat 8 multispectral sensor. <i>Geocarto International</i> , 2017, 32, 759-776.	1.7	20
118	Assessing the potential of integrated Landsat 8 thermal bands, with the traditional reflective bands and derived vegetation indices in classifying urban landscapes. <i>Geocarto International</i> , 2017, 32, 886-899.	1.7	45
119	Detection and mapping the spatial distribution of bracken fern weeds using the Landsat 8 OLI new generation sensor. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 57, 93-103.	1.4	41
120	Evaluating the performance of the newly-launched Landsat 8 sensor in detecting and mapping the spatial configuration of water hyacinth (<i>Eichhornia crassipes</i>) in inland lakes, Zimbabwe. <i>Physics and Chemistry of the Earth</i> , 2017, 100, 101-111.	1.2	18
121	Remote sensing leaf water stress in coffee (<i>Coffea arabica</i>) using secondary effects of water absorption and random forests. <i>Physics and Chemistry of the Earth</i> , 2017, 100, 317-324.	1.2	31
122	Implications of land use transitions on soil nitrogen in dynamic landscapes in Tanzania. <i>Land Use Policy</i> , 2017, 64, 95-100.	2.5	14
123	Evaluating the influence of the Red Edge band from RapidEye sensor in quantifying leaf area index for hydrological applications specifically focussing on plant canopy interception. <i>Physics and Chemistry of the Earth</i> , 2017, 100, 73-80.	1.2	13
124	Multi-phenology WorldView-2 imagery improves remote sensing of savannah tree species. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 58, 65-73.	1.4	60
125	Use of Landsat series data to analyse the spatial and temporal variations of land degradation in a dispersive soil environment: A case of King Sabata Dalindyebo local municipality in the Eastern Cape Province, South Africa. <i>Physics and Chemistry of the Earth</i> , 2017, 100, 112-120.	1.2	15
126	Linking major shifts in land surface temperatures to long term land use and land cover changes: A case of Harare, Zimbabwe. <i>Urban Climate</i> , 2017, 20, 120-134.	2.4	44

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127	Examining the strength of the newly-launched Sentinel 2 MSI sensor in detecting and discriminating subtle differences between C3 and C4 grass species. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 129, 32-40.	4.9	102
128	Testing the detection and discrimination potential of the new Landsat 8 satellite data on the challenging water hyacinth (<i>Eichhornia crassipes</i>) in freshwater ecosystems. <i>Applied Geography</i> , 2017, 84, 11-22.	1.7	21
129	Testing the capabilities of the new WorldView-3 space-borne sensor's red-edge spectral band in discriminating and mapping complex grassland management treatments. <i>International Journal of Remote Sensing</i> , 2017, 38, 1-22.	1.3	29
130	Seasonal discrimination of C3 and C4 grasses functional types: An evaluation of the prospects of varying spectral configurations of new generation sensors. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 62, 47-55.	1.4	19
131	Prediction of future urban surface temperatures using medium resolution satellite data in Harare metropolitan city, Zimbabwe. <i>Building and Environment</i> , 2017, 122, 397-410.	3.0	68
132	Integrating age in the detection and mapping of incongruous patches in coffee (<i>Coffea arabica</i>) plantations using multi-temporal Landsat 8 NDVI anomalies. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 57, 1-13.	1.4	19
133	Separability of coffee leaf rust infection levels with machine learning methods at Sentinel-2 MSI spectral resolutions. <i>Precision Agriculture</i> , 2017, 18, 859-881.	3.1	71
134	Remote sensing of species diversity using Landsat 8 spectral variables. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 133, 116-127.	4.9	62
135	Remote sensing of crop health for food security in Africa: Potentials and constraints. <i>Remote Sensing Applications: Society and Environment</i> , 2017, 8, 231-239.	0.8	28
136	Application of remote sensing in estimating maize grain yield in heterogeneous African agricultural landscapes: a review. <i>International Journal of Remote Sensing</i> , 2017, 38, 6816-6845.	1.3	48
137	Stand-volume estimation from multi-source data for coppiced and high forest <i>Eucalyptus</i> spp. silvicultural systems in KwaZulu-Natal, South Africa. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 132, 162-169.	4.9	15
138	Mapping leaf nitrogen and carbon concentrations of intact and fragmented indigenous forest ecosystems using empirical modeling techniques and WorldView-2 data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 131, 26-39.	4.9	18
139	Remote sensing of key grassland nutrients using hyperspectral techniques in KwaZulu-Natal, South Africa. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 036005.	0.6	13
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