

Manchun Li

List of Publications by Year in descending order

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132
papers

3,778
citations

136740

32
h-index

143772

57
g-index

133
all docs

133
docs citations

133
times ranked

4068
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of supervised object-based land-cover image classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 130, 277-293.	4.9	620
2	Registration of Laser Scanning Point Clouds: A Review. Sensors, 2018, 18, 1641.	2.1	170
3	Training set size, scale, and features in Geographic Object-Based Image Analysis of very high resolution unmanned aerial vehicle imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 102, 14-27.	4.9	164
4	Evaluation of Feature Selection Methods for Object-Based Land Cover Mapping of Unmanned Aerial Vehicle Imagery Using Random Forest and Support Vector Machine Classifiers. ISPRS International Journal of Geo-Information, 2017, 6, 51.	1.4	164
5	A systematic comparison of different object-based classification techniques using high spatial resolution imagery in agricultural environments. International Journal of Applied Earth Observation and Geoinformation, 2016, 49, 87-98.	1.4	141
6	Spatial and temporal distribution of rainfall and drought characteristics across the Pearl River basin. Science of the Total Environment, 2018, 619-620, 28-41.	3.9	110
7	Building a Series of Consistent Night-Time Light Data (1992–2018) in Southeast Asia by Integrating DMSP-OLS and NPP-VIIRS. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1843-1856.	2.7	100
8	Extending the SLEUTH model to integrate habitat quality into urban growth simulation. Journal of Environmental Management, 2018, 217, 486-498.	3.8	98
9	Direct and indirect impacts of urbanization on vegetation growth across the world's cities. Science Advances, 2022, 8, .	4.7	80
10	Extraction of Urban Power Lines from Vehicle-Borne LiDAR Data. Remote Sensing, 2014, 6, 3302-3320.	1.8	75
11	Object-Based Change Detection in Urban Areas: The Effects of Segmentation Strategy, Scale, and Feature Space on Unsupervised Methods. Remote Sensing, 2016, 8, 761.	1.8	74
12	Analysis of landscape fragmentation processes and driving forces in wetlands in arid areas: A case study of the middle reaches of the Heihe River, China. Ecological Indicators, 2014, 46, 240-252.	2.6	65
13	A Novel Wrapper Approach for Feature Selection in Object-Based Image Classification Using Polygon-Based Cross-Validation. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 409-413.	1.4	59
14	Quantitative risk analysis of urban natural gas pipeline networks using geographical information systems. Journal of Loss Prevention in the Process Industries, 2013, 26, 1183-1192.	1.7	58
15	Impacts of LUCC on soil properties in the riparian zones of desert oasis with remote sensing data: A case study of the middle Heihe River basin, China. Science of the Total Environment, 2015, 506-507, 259-271.	3.9	56
16	Use of Tencent Street View Imagery for Visual Perception of Streets. ISPRS International Journal of Geo-Information, 2017, 6, 265.	1.4	55
17	Using convolutional neural network to identify irregular segmentation objects from very high-resolution remote sensing imagery. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	54
18	Post-earthquake assessment of building damage degree using LiDAR data and imagery. Science in China Series D: Earth Sciences, 2008, 51, 133-143.	0.9	53

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19	Making Landsat Time Series Consistent: Evaluating and Improving Landsat Analysis Ready Data. <i>Remote Sensing</i> , 2019, 11, 51.	1.8	51
20	River Detection in Remotely Sensed Imagery Using Gabor Filtering and Path Opening. <i>Remote Sensing</i> , 2015, 7, 8779-8802.	1.8	50
21	Accuracy Improvements to Pixel-Based and Object-Based LULC Classification with Auxiliary Datasets from Google Earth Engine. <i>Remote Sensing</i> , 2021, 13, 453.	1.8	48
22	Incorporating ecosystem services to assess progress towards sustainable development goals: A case study of the Yangtze River Economic Belt, China. <i>Science of the Total Environment</i> , 2022, 806, 151277.	3.9	47
23	Multiscale Grid Method for Detection and Reconstruction of Building Roofs from Airborne LiDAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 4081-4094.	2.3	44
24	Constructing Ecological Networks Based on Habitat Quality Assessment: A Case Study of Changzhou, China. <i>Scientific Reports</i> , 2017, 7, 46073.	1.6	43
25	Quantitative Analysis of the Waterline Method for Topographical Mapping of Tidal Flats: A Case Study in the Dongsha Sandbank, China. <i>Remote Sensing</i> , 2013, 5, 6138-6158.	1.8	42
26	Analysis of farmland fragmentation in China Modernization Demonstration Zone since “Reform and Openness” a case study of South Jiangsu Province. <i>Scientific Reports</i> , 2015, 5, 11797.	1.6	41
27	Using Octrees to Detect Changes to Buildings and Trees in the Urban Environment from Airborne LiDAR Data. <i>Remote Sensing</i> , 2015, 7, 9682-9704.	1.8	38
28	Calibrating a cellular automata model for understanding rural→urban land conversion: a Pareto front-based multi-objective optimization approach. <i>International Journal of Geographical Information Science</i> , 2014, 28, 1028-1046.	2.2	37
29	River Delineation from Remotely Sensed Imagery Using a Multi-Scale Classification Approach. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 4726-4737.	2.3	36
30	A Caution on the Use of Surface Digital Elevation Models to Simulate Supraglacial Hydrology of the Greenland Ice Sheet. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 5212-5224.	2.3	35
31	Using big data to track marine oil transportation along the 21st-century Maritime Silk Road. <i>Science China Technological Sciences</i> , 2019, 62, 677-686.	2.0	35
32	Fire spread simulation using GIS: Aiming at urban natural gas pipeline. <i>Safety Science</i> , 2015, 75, 23-35.	2.6	34
33	Assessing potential ecosystem service dynamics driven by urbanization in the Yangtze River Economic Belt, China. <i>Journal of Environmental Management</i> , 2021, 292, 112734.	3.8	34
34	Building Point Detection from Vehicle-Borne LiDAR Data Based on Voxel Group and Horizontal Hollow Analysis. <i>Remote Sensing</i> , 2016, 8, 419.	1.8	33
35	Using Urban Development Boundaries to Constrain Uncontrolled Urban Sprawl in China. <i>Annals of the American Association of Geographers</i> , 2016, 106, 1321-1343.	1.5	33
36	Topographic Mapping of Offshore Sandbank Tidal Flats Using the Waterline Detection Method: A Case Study on the Dongsha Sandbank of Jiangsu Radial Tidal Sand Ridges, China. <i>Marine Geodesy</i> , 2012, 35, 362-378.	0.9	29

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37	A novel method of quantitative risk assessment based on grid difference of pipeline sections. <i>Safety Science</i> , 2013, 59, 219-226.	2.6	29
38	Cultivated land information extraction from high-resolution unmanned aerial vehicle imagery data. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 083673.	0.6	29
39	Fluvial morphometry of supraglacial river networks on the southwest Greenland Ice Sheet. <i>GIScience and Remote Sensing</i> , 2016, 53, 459-482.	2.4	29
40	Spatial analysis and evaluation of medical resource allocation in China based on geographic big data. <i>BMC Health Services Research</i> , 2021, 21, 1084.	0.9	29
41	The causes of farmland landscape structural changes in different geographical environments. <i>Science of the Total Environment</i> , 2019, 685, 667-680.	3.9	28
42	Rainfall seasonality changes and its possible teleconnections with global climate events in China. <i>Climate Dynamics</i> , 2019, 53, 3529-3546.	1.7	28
43	Decreasing Net Primary Productivity in Response to Urbanization in Liaoning Province, China. <i>Sustainability</i> , 2017, 9, 162.	1.6	27
44	Using unmanned aerial vehicle for remote sensing application. , 2013, , .		26
45	Mapping Urban Areas Using a Combination of Remote Sensing and Geolocation Data. <i>Remote Sensing</i> , 2019, 11, 1470.	1.8	25
46	Using Construction Expansion Regulation Zones to Manage Urban Growth in Hefei City, China. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2013, 139, 62-69.	0.8	24
47	Change Detection in Coral Reef Environment Using High-Resolution Images: Comparison of Object-Based and Pixel-Based Paradigms. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 441.	1.4	24
48	Hierarchical Registration Method for Airborne and Vehicle LiDAR Point Cloud. <i>Remote Sensing</i> , 2015, 7, 13921-13944.	1.8	22
49	Technical Framework for Shallow-Water Bathymetry With High Reliability and No Missing Data Based on Time-Series Sentinel-2 Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8745-8763.	2.7	20
50	Integrating Island Spatial Information and Integer Optimization for Locating Maritime Search and Rescue Bases: A Case Study in the South China Sea. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 88.	1.4	20
51	Coupling urban 3D information and circuit theory to advance the development of urban ecological networks. <i>Conservation Biology</i> , 2021, 35, 1140-1150.	2.4	20
52	Automated Extraction of Built-Up Areas by Fusing VIIRS Nighttime Lights and Landsat-8 Data. <i>Remote Sensing</i> , 2019, 11, 1571.	1.8	19
53	Estimating the impact of ground ozone concentrations on crop yields across China from 2014 to 2018: A multi-model comparison. <i>Environmental Pollution</i> , 2021, 283, 117099.	3.7	19
54	Automated High-Resolution Satellite Image Registration Using Supraglacial Rivers on the Greenland Ice Sheet. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 845-856.	2.3	18

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55	Crowd-sourced pictures geo-localization method based on street view images and 3D reconstruction. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 141, 72-85.	4.9	18
56	A green view index for urban transportation: How much greenery do we view while moving around in cities?. <i>International Journal of Sustainable Transportation</i> , 2020, 14, 972-989.	2.1	17
57	Active learning for object-based image classification using predefined training objects. <i>International Journal of Remote Sensing</i> , 2018, 39, 2746-2765.	1.3	16
58	Shiftable Leading Point Method for High Accuracy Registration of Airborne and Terrestrial LiDAR Data. <i>Remote Sensing</i> , 2015, 7, 1915-1936.	1.8	15
59	Seasonal evolution of supraglacial lakes and rivers on the southwest Greenland Ice Sheet. <i>Journal of Glaciology</i> , 2021, 67, 592-602.	1.1	15
60	Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3235-3249.	2.7	14
61	Demarcation of Prime Farmland Protection Areas around a Metropolis Based on High-Resolution Satellite Imagery. <i>Scientific Reports</i> , 2016, 6, 37634.	1.6	14
62	Developing Planning Measures to Preserve Farmland: A Case Study from China. <i>Sustainability</i> , 2015, 7, 13011-13028.	1.6	13
63	Advances of Local Climate Zone Mapping and Its Practice Using Object-Based Image Analysis. <i>Atmosphere</i> , 2021, 12, 1146.	1.0	13
64	Integration of LiDAR Data and Orthophoto for Automatic Extraction of Parking Lot Structure. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 503-514.	2.3	12
65	Characterization of air pollution in urban areas of Yangtze River Delta, China. <i>Chinese Geographical Science</i> , 2017, 27, 836-846.	1.2	12
66	A self-adaptive homomorphic filter method for removing thin cloud. , 2011, , .		11
67	Quota Restrictions on Land Use for Decelerating Urban Sprawl of Mega City: A Case Study of Shanghai, China. <i>Sustainability</i> , 2016, 8, 968.	1.6	11
68	Survey of reefs based on Landsat 8 operational land imager (OLI) images in the Nansha Islands, South China Sea. <i>Acta Oceanologica Sinica</i> , 2016, 35, 11-19.	0.4	11
69	A parallel method to accelerate spatial operations involving polygon intersections. <i>International Journal of Geographical Information Science</i> , 2018, 32, 2402-2426.	2.2	11
70	Validation of Global Airport Spatial Locations From Open Databases Using Deep Learning for Runway Detection. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 1120-1131.	2.3	11
71	LiDAR-based three-dimensional street landscape indices for urban habitability. <i>Earth Science Informatics</i> , 2017, 10, 457-470.	1.6	10
72	Thematic maps for county-level land use planning in Contemporary China. <i>Journal of Maps</i> , 2012, 8, 185-188.	1.0	9

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73	Land-type mapping and its application to land-use zoning: a case study of Jiangsu province, eastern China. <i>Journal of Maps</i> , 2020, 16, 847-854.	1.0	9
74	Registration of Mars remote sensing images under the crater constraint. <i>Planetary and Space Science</i> , 2013, 85, 13-23.	0.9	8
75	Automatic Registration of Coastal Remotely Sensed Imagery by Affine Invariant Feature Matching with Shoreline Constraint. <i>Marine Geodesy</i> , 2014, 37, 32-46.	0.9	8
76	Estimation of Ground PM2.5 Concentrations using a DEM-assisted Information Diffusion Algorithm: A Case Study in China. <i>Scientific Reports</i> , 2017, 7, 15556.	1.6	8
77	Spatial Patterns of Satellite-Retrieved PM2.5 and Long-Term Exposure Assessment of China from 1998 to 2016. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2785.	1.2	8
78	Diverse supraglacial drainage patterns on the Devon ice Cap, Arctic Canada. <i>Journal of Maps</i> , 2020, 16, 834-846.	1.0	8
79	Oil Flow Analysis in the Maritime Silk Road Region Using AIS Data. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 265.	1.4	8
80	Integrating a deep forest algorithm with vector-based cellular automata for urban land change simulation. <i>Transactions in GIS</i> , 2022, 26, 2056-2080.	1.0	8
81	Urban land growth in eastern China: a general analytical framework based on the role of urban micro-agents' adaptive behavior. <i>Regional Environmental Change</i> , 2015, 15, 695-707.	1.4	7
82	Data decomposition method for parallel polygon rasterization considering load balancing. <i>Computers and Geosciences</i> , 2015, 85, 196-209.	2.0	7
83	A Parallel Scheme for Large-scale Polygon Rasterization on CUDA-enabled GPUs. <i>Transactions in GIS</i> , 2017, 21, 608-631.	1.0	7
84	Hierarchical Classification of Urban ALS Data by Using Geometry and Intensity Information. <i>Sensors</i> , 2019, 19, 4583.	2.1	7
85	Multi-points fast marching: A novel method for road extraction. , 2010, , .		6
86	Illegal land use risk assessment of Shenzhen City, China. <i>Journal of Maps</i> , 2015, 11, 798-805.	1.0	6
87	A multi-scale evaluation of differential impacts of canonical ENSO and ENSO Modoki on drought in China. <i>International Journal of Climatology</i> , 2019, 39, 1985-2004.	1.5	6
88	Simulation and estimation of future precipitation changes in arid regions: a case study of Xinjiang, Northwest China. <i>Climatic Change</i> , 2021, 167, 1.	1.7	6
89	A Modified Self-adaptive Method for Mapping Annual 30-m Land Use/Land Cover Using Google Earth Engine: A Case Study of Yangtze River Delta. <i>Chinese Geographical Science</i> , 2021, 31, 782-794.	1.2	6
90	A new method of restoring ETM+ SLC-off images based on multi-temporal images. , 2011, , .		5

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91	A strategy for parallelising polygon rasterisation algorithms using multi-core CPUs. Journal of Spatial Science, 2016, 61, 47-68.	1.0	5
92	Causation inference in complicated atmospheric environment. Environmental Pollution, 2022, 303, 119057.	3.7	5
93	A new method for remote sensing image matching by integrating affine invariant feature extraction and RANSAC. , 2010, , .		4
94	The reconstruction of abnormal segments in HJ-1A/B NDVI time series using MODIS: a statistical method. International Journal of Remote Sensing, 2014, 35, 7991-8007.	1.3	4
95	Hierarchical Filtering Strategy for Registration of Remote Sensing Images of Coral Reefs. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3304-3313.	2.3	4
96	A topology-preserving polygon rasterization algorithm. Cartography and Geographic Information Science, 2018, 45, 495-509.	1.4	4
97	CART-RF Classification with Multifilter for Monitoring Land Use Changes Based on MODIS Time-Series Data: A Case Study from Jiangsu Province, China. Sustainability, 2019, 11, 5657.	1.6	4
98	Response of local temperature variation to land cover and land use intensity changes in China over the last 30 years. Climatic Change, 2021, 164, 1.	1.7	4
99	Supraglacial Drainage Efficiency of the Greenland Ice Sheet Estimated From Remote Sensing and Climate Models. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	4
100	Robust segmentation of building points from airborne LiDAR data and imagery. , 2011, , .		3
101	Dynamic triangle — Based method for 3D building rooftop reconstruction from LiDAR data. , 2011, , .		3
102	Adaptable parallel strategy to extract polygons from massive classified images on multiâ€core clusters. Concurrency Computation Practice and Experience, 2017, 29, e3861.	1.4	3
103	Application of Ecosystem Service Bundles and Tour Experience in Land Use Management: A Case Study of Xiaohuangshan Mountain (China). Remote Sensing, 2021, 13, 242.	1.8	3
104	Mapping Impacts of Human Activities from Nighttime Light on Vegetation Cover Changes in Southeast Asia. Land, 2021, 10, 185.	1.2	3
105	Transnational Accessibility between Residential Areas Based on Multimodal Transport System. ISPRS International Journal of Geo-Information, 2021, 10, 136.	1.4	3
106	Evaluation of spatial accessibility to town and rural in a GIS environment: A case study of Dachang County. , 2011, , .		2
107	3D Visualization of electromagnetic environment. , 2011, , .		2
108	Demarcation of prime farmland protection areas from high-resolution satellite imagery. , 2017, , .		2

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109	A systematic parallel strategy for generating contours from large-scale DEM data using collaborative CPUs and GPUs. Cartography and Geographic Information Science, 2021, 48, 187-209.	1.4	2
110	Mapping large area tea plantations using progressive random forest and Google Earth Engine. Journal of Applied Remote Sensing, 2022, 16, .	0.6	2
111	Assessment of land degradation in Guizhou Province, Southwest China using AVHRR/NDVI and MODIS/NDVI data. , 2010, , .		1
112	Implementation of parallel algorithm for rasterization processing. , 2012, , .		1
113	Research on log management system of geographical information sharing platform based on WebGIS. , 2012, , .		1
114	Process of airborne lidar data for detection of complex overpass. , 2014, , .		1
115	Performance evaluation of spatial indexing to identify polygon intersection. Geocarto International, 2020, 35, 1850-1872.	1.7	1
116	A methodology for balancing the preservation of area, shape, and topological properties in polygon-to-raster conversion. Cartography and Geographic Information Science, 0, , 1-19.	1.4	1
117	Spatial planning zoning based on land-type mapping: a case study in Changzhou City, Eastern China. Journal of Land Use Science, 2021, 16, 498-521.	1.0	1
118	Framework for Automatic Coral Reef Extraction Using Sentinel-2 Image Time Series. Marine Geodesy, 2022, 45, 195-231.	0.9	1
119	GIS-based study on land use guide regionalization: A case study in Langfang city of Hebei province. , 2010, , .		0
120	Mapping land cover types as fuzzy sets. , 2010, , .		0
121	Extraction of sandbank shoreline of Jiangsu based on wavelet transformation. , 2011, , .		0
122	Zoning analysis of Ecosystem Services Value in downtown of Langfang City. , 2012, , .		0
123	Study on the conversion between farmland and pastoral land and its affecting factors in the western of the Songnen plain. , 2012, , .		0
124	Database construction of general land use plan: A case study of Changzhou National Hi-Tech District (CND). , 2012, , .		0
125	Research on parallel computing of spatial vector data conversion based on common interface. , 2012, , .		0
126	Study on industrial land consolidation based on GIS. , 2012, , .		0

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127	Research research on on parallel algorithm for polygon rasterization. , 2012, , .		0
128	Small core, big network: a comprehensive approach to GIS teaching practice based on digital three-dimensional campus reconstruction. Journal of Geography in Higher Education, 2014, 38, 119-135.	1.4	0
129	Autonomic visiting in digital 3D scenes. Earth Science Informatics, 2016, 9, 383-400.	1.6	0
130	Improving and evaluating boundary algebra filling for identifying polygon intersections. Earth Science Informatics, 2019, 12, 581-597.	1.6	0
131	Measuring Ice Flow Velocity on the Greenland Ice Sheet Using Stable Supraglacial River. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	0
132	Changes in local climatic factors under different oasis-town configurations in an arid region: a case study of Hami Oasis. Climatic Change, 2020, 161, 517-534.	1.7	0