Yimin Chen

List of Publications by Year in descending order

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48 papers	3,461 citations	172457 29 h-index	214800 47 g-index
48 all docs	48 docs citations	48 times ranked	2565 citing authors

#	Article	IF	Citations
1	High-spatiotemporal-resolution mapping of global urban change from 1985 to 2015. Nature Sustainability, 2020, 3, 564-570.	23.7	391
2	A new landscape index for quantifying urban expansion using multi-temporal remotely sensed data. Landscape Ecology, 2010, 25, 671-682.	4.2	338
3	Global projections of future urban land expansion under shared socioeconomic pathways. Nature Communications, 2020, 11, 537.	12.8	336
4	A New Global Land-Use and Land-Cover Change Product at a 1-km Resolution for 2010 to 2100 Based on Humanâ€“Environment Interactions. Annals of the American Association of Geographers, 2017, 107, 1040-1059.	2.2	206
5	Quantifying the relationship between urban forms and carbon emissions using panel data analysis. Landscape Ecology, 2013, 28, 1889-1907.	4.2	199
6	Modeling urban land-use dynamics in a fast developing city using the modified logistic cellular automaton with a patch-based simulation strategy. International Journal of Geographical Information Science, 2014, 28, 234-255.	4.8	194
7	Delineating urban functional areas with building-level social media data: A dynamic time warping (DTW) distance based k -medoids method. Landscape and Urban Planning, 2017, 160, 48-60.	7.5	179
8	Estimating the relationship between urban forms and energy consumption: A case study in the Pearl River Delta, 2005â€“2008. Landscape and Urban Planning, 2011, 102, 33-42.	7.5	150
9	Simulating land-use dynamics under planning policies by integrating artificial immune systems with cellular automata. International Journal of Geographical Information Science, 2010, 24, 783-802.	4.8	102
10	Capturing the varying effects of driving forces over time for the simulation of urban growth by using survival analysis and cellular automata. Landscape and Urban Planning, 2016, 152, 59-71.	7.5	102
11	Tele-connecting China's future urban growth to impacts on ecosystem services under the shared socioeconomic pathways. Science of the Total Environment, 2019, 652, 765-779.	8.0	79
12	Calibrating cellular automata based on landscape metrics by using genetic algorithms. International Journal of Geographical Information Science, 2013, 27, 594-613.	4.8	78
13	Coupling urban cellular automata with ant colony optimization for zoning protected natural areas under a changing landscape. International Journal of Geographical Information Science, 2011, 25, 575-593.	4.8	75
14	Concepts, methodologies, and tools of an integrated geographical simulation and optimization system. International Journal of Geographical Information Science, 2011, 25, 633-655.	4.8	73
15	Multiple intra-urban land use simulations and driving factors analysis: a case study in Huicheng, China. GIScience and Remote Sensing, 2019, 56, 282-308.	5.9	68
16	Simulating urban growth boundaries using a patch-based cellular automaton with economic and ecological constraints. International Journal of Geographical Information Science, 2019, 33, 55-80.	4.8	57
17	Experiences and issues of using cellular automata for assisting urban and regional planning in China. International Journal of Geographical Information Science, 2017, 31, 1606-1629.	4.8	55
18	Mapping the fine-scale spatial pattern of housing rent in the metropolitan area by using online rental listings and ensemble learning. Applied Geography, 2016, 75, 200-212.	3.7	50

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19	Integrating multi-source big data to infer building functions. International Journal of Geographical Information Science, 0, , 1-20.	4.8	44
20	Simulating urban dynamics in China using a gradient cellular automata model based on S-shaped curve evolution characteristics. International Journal of Geographical Information Science, 2018, 32, 73-101.	4.8	44
21	Highâ€Resolution Gridded Population Projections for China Under the Shared Socioeconomic Pathways. Earth's Future, 2020, 8, e2020EF001491.	6.3	40
22	Early warning of illegal development for protected areas by integrating cellular automata with neural networks. Journal of Environmental Management, 2013, 130, 106-116.	7.8	39
23	An agent-based model for optimal land allocation (AgentLA) with a contiguity constraint. International Journal of Geographical Information Science, 2010, 24, 1269-1288.	4.8	37
24	Zoning farmland protection under spatial constraints by integrating remote sensing, GIS and artificial immune systems. International Journal of Geographical Information Science, 2011, 25, 1829-1848.	4.8	37
25	An integrated approach of remote sensing, GIS and swarm intelligence for zoning protected ecological areas. Landscape Ecology, 2012, 27, 447-463.	4.2	36
26	Projecting China's future water footprint under the shared socio-economic pathways. Journal of Environmental Management, 2020, 260, 110102.	7.8	35
27	Quantifying Spatiotemporal Dynamics of Urban Growth Modes in Metropolitan Cities of China: Beijing, Shanghai, Tianjin, and Guangzhou. Journal of the Urban Planning and Development Division, ASCE, 2017, 143, .	1.7	32
28	Simulating Urban Form and Energy Consumption in the Pearl River Delta Under Different Development Strategies. Annals of the American Association of Geographers, 2013, 103, 1567-1585.	3.0	31
29	Calibrating a Land Parcel Cellular Automaton (LP-CA) for urban growth simulation based on ensemble learning. International Journal of Geographical Information Science, 2017, 31, 2480-2504.	4.8	31
30	Spatial and Temporal Dynamics of Urban Expansion along the Guangzhouâ€“Foshan Inter-City Rail Transit Corridor, China. Sustainability, 2018, 10, 593.	3.2	31
31	Analyzing Parcel-Level Relationships between Urban Land Expansion and Activity Changes by Integrating Landsat and Nighttime Light Data. Remote Sensing, 2017, 9, 164.	4.0	27
32	MHA-Net: Multipath Hybrid Attention Network for Building Footprint Extraction From High-Resolution Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5807-5817.	4.9	26
33	Changes of Population, Built-up Land, and Cropland Exposure to Natural Hazards in China from 1995 to 2015. International Journal of Disaster Risk Science, 2019, 10, 557-572.	2.9	24
34	Knowledge transfer and adaptation for land-use simulation with a logistic cellular automaton. International Journal of Geographical Information Science, 2013, 27, 1829-1848.	4.8	22
35	Analyzing land-cover change and corresponding impacts on carbon budget in a fast developing sub-tropical region by integrating MODIS and Landsat TM/ETM+ images. Applied Geography, 2013, 45, 10-21.	3.7	20
36	Global snow cover estimation with Microwave Brightness Temperature measurements and one-class in situ observations. Remote Sensing of Environment, 2016, 182, 227-251.	11.0	20

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37	Assimilating process context information of cellular automata into change detection for monitoring land use changes. International Journal of Geographical Information Science, 2012, 26, 1667-1687.	4.8	19
38	Will the Development of a High-Speed Railway Have Impacts on Land Use Patterns in China?. Annals of the American Association of Geographers, 2019, 109, 979-1005.	2.2	19
39	How to minimize the impacts of urban expansion on farmland loss: developing a few large or many small cities?. Landscape Ecology, 2020, 35, 2487-2499.	4.2	19
40	Mapping the spatial disparities in urban health care services using taxi trajectories data. Transactions in GIS, 2018, 22, 602-615.	2.3	18
41	Defining agents' behaviour based on urban economic theory to simulate complex urban residential dynamics. International Journal of Geographical Information Science, 2012, 26, 1155-1172.	4.8	17
42	GPU-CA model for large-scale land-use change simulation. Science Bulletin, 2012, 57, 2442-2452.	1.7	17
43	An Urban Flooding Index for Unsupervised Inundated Urban Area Detection Using Sentinel-1 Polarimetric SAR Images. Remote Sensing, 2021, 13, 4511.	4.0	11
44	Amplification Effect of Urbanization on Atmospheric Aridity Over China Under Past Global Warming. Earth's Future, 2022, 10, .	6.3	11
45	A novel unsupervised deep learning method for the generalization of urban form. Geo-Spatial Information Science, 2022, 25, 568-587.	5.3	9
46	Detecting industry clusters from the bottom up based on co-location patterns mining: A case study in Dongguan, China. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 2827-2841.	2.0	5
47	Symmetry Analysis of Oriental Polygonal Pagodas Using 3D Point Clouds for Cultural Heritage. Sensors, 2021, 21, 1228.	3.8	4
48	Quantifying the relationships between network distance and straight-line distance: applications in spatial bias correction. Annals of GIS, 2021, 27, 351-369.	3.1	4