

Yimin Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2433896/publications.pdf>

Version: 2024-02-01

48
papers

3,461
citations

172207

29
h-index

214527

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. <i>Nature Sustainability</i> , 2020, 3, 564-570.	11.5	391
2	A new landscape index for quantifying urban expansion using multi-temporal remotely sensed data. <i>Landscape Ecology</i> , 2010, 25, 671-682.	1.9	338
3	Global projections of future urban land expansion under shared socioeconomic pathways. <i>Nature Communications</i> , 2020, 11, 537.	5.8	336
4	A New Global Land-Use and Land-Cover Change Product at a 1-km Resolution for 2010 to 2100 Based on Human-Environment Interactions. <i>Annals of the American Association of Geographers</i> , 2017, 107, 1040-1059.	1.5	206
5	Quantifying the relationship between urban forms and carbon emissions using panel data analysis. <i>Landscape Ecology</i> , 2013, 28, 1889-1907.	1.9	199
6	Modeling urban land-use dynamics in a fast developing city using the modified logistic cellular automaton with a patch-based simulation strategy. <i>International Journal of Geographical Information Science</i> , 2014, 28, 234-255.	2.2	194
7	Delineating urban functional areas with building-level social media data: A dynamic time warping (DTW) distance based k-medoids method. <i>Landscape and Urban Planning</i> , 2017, 160, 48-60.	3.4	179
8	Estimating the relationship between urban forms and energy consumption: A case study in the Pearl River Delta, 2005-2008. <i>Landscape and Urban Planning</i> , 2011, 102, 33-42.	3.4	150
9	Simulating land-use dynamics under planning policies by integrating artificial immune systems with cellular automata. <i>International Journal of Geographical Information Science</i> , 2010, 24, 783-802.	2.2	102
10	Capturing the varying effects of driving forces over time for the simulation of urban growth by using survival analysis and cellular automata. <i>Landscape and Urban Planning</i> , 2016, 152, 59-71.	3.4	102
11	Tele-connecting China's future urban growth to impacts on ecosystem services under the shared socioeconomic pathways. <i>Science of the Total Environment</i> , 2019, 652, 765-779.	3.9	79
12	Calibrating cellular automata based on landscape metrics by using genetic algorithms. <i>International Journal of Geographical Information Science</i> , 2013, 27, 594-613.	2.2	78
13	Coupling urban cellular automata with ant colony optimization for zoning protected natural areas under a changing landscape. <i>International Journal of Geographical Information Science</i> , 2011, 25, 575-593.	2.2	75
14	Concepts, methodologies, and tools of an integrated geographical simulation and optimization system. <i>International Journal of Geographical Information Science</i> , 2011, 25, 633-655.	2.2	73
15	Multiple intra-urban land use simulations and driving factors analysis: a case study in Huicheng, China. <i>GIScience and Remote Sensing</i> , 2019, 56, 282-308.	2.4	68
16	Simulating urban growth boundaries using a patch-based cellular automaton with economic and ecological constraints. <i>International Journal of Geographical Information Science</i> , 2019, 33, 55-80.	2.2	57
17	Experiences and issues of using cellular automata for assisting urban and regional planning in China. <i>International Journal of Geographical Information Science</i> , 2017, 31, 1606-1629.	2.2	55
18	Mapping the fine-scale spatial pattern of housing rent in the metropolitan area by using online rental listings and ensemble learning. <i>Applied Geography</i> , 2016, 75, 200-212.	1.7	50

#	ARTICLE	IF	CITATIONS
19	Integrating multi-source big data to infer building functions. <i>International Journal of Geographical Information Science</i> , 0, , 1-20.	2.2	44
20	Simulating urban dynamics in China using a gradient cellular automata model based on S-shaped curve evolution characteristics. <i>International Journal of Geographical Information Science</i> , 2018, 32, 73-101.	2.2	44
21	High-Resolution Gridded Population Projections for China Under the Shared Socioeconomic Pathways. <i>Earth's Future</i> , 2020, 8, e2020EF001491.	2.4	40
22	Early warning of illegal development for protected areas by integrating cellular automata with neural networks. <i>Journal of Environmental Management</i> , 2013, 130, 106-116.	3.8	39
23	An agent-based model for optimal land allocation (AgentLA) with a contiguity constraint. <i>International Journal of Geographical Information Science</i> , 2010, 24, 1269-1288.	2.2	37
24	Zoning farmland protection under spatial constraints by integrating remote sensing, GIS and artificial immune systems. <i>International Journal of Geographical Information Science</i> , 2011, 25, 1829-1848.	2.2	37
25	An integrated approach of remote sensing, GIS and swarm intelligence for zoning protected ecological areas. <i>Landscape Ecology</i> , 2012, 27, 447-463.	1.9	36
26	Projecting China's future water footprint under the shared socio-economic pathways. <i>Journal of Environmental Management</i> , 2020, 260, 110102.	3.8	35
27	Quantifying Spatiotemporal Dynamics of Urban Growth Modes in Metropolitan Cities of China: Beijing, Shanghai, Tianjin, and Guangzhou. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2017, 143, .	0.8	32
28	Simulating Urban Form and Energy Consumption in the Pearl River Delta Under Different Development Strategies. <i>Annals of the American Association of Geographers</i> , 2013, 103, 1567-1585.	3.0	31
29	Calibrating a Land Parcel Cellular Automaton (LP-CA) for urban growth simulation based on ensemble learning. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2480-2504.	2.2	31
30	Spatial and Temporal Dynamics of Urban Expansion along the Guangzhou-Foshan Inter-City Rail Transit Corridor, China. <i>Sustainability</i> , 2018, 10, 593.	1.6	31
31	Analyzing Parcel-Level Relationships between Urban Land Expansion and Activity Changes by Integrating Landsat and Nighttime Light Data. <i>Remote Sensing</i> , 2017, 9, 164.	1.8	27
32	MHA-Net: Multipath Hybrid Attention Network for Building Footprint Extraction From High-Resolution Remote Sensing Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 5807-5817.	2.3	26
33	Changes of Population, Built-up Land, and Cropland Exposure to Natural Hazards in China from 1995 to 2015. <i>International Journal of Disaster Risk Science</i> , 2019, 10, 557-572.	1.3	24
34	Knowledge transfer and adaptation for land-use simulation with a logistic cellular automaton. <i>International Journal of Geographical Information Science</i> , 2013, 27, 1829-1848.	2.2	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. <i>Applied Geography</i> , 2013, 45, 10-21.	1.7	20
36	Global snow cover estimation with Microwave Brightness Temperature measurements and one-class in situ observations. <i>Remote Sensing of Environment</i> , 2016, 182, 227-251.	4.6	20

#	ARTICLE	IF	CITATIONS
37	Assimilating process context information of cellular automata into change detection for monitoring land use changes. <i>International Journal of Geographical Information Science</i> , 2012, 26, 1667-1687.	2.2	19
38	Will the Development of a High-Speed Railway Have Impacts on Land Use Patterns in China?. <i>Annals of the American Association of Geographers</i> , 2019, 109, 979-1005.	1.5	19
39	How to minimize the impacts of urban expansion on farmland loss: developing a few large or many small cities?. <i>Landscape Ecology</i> , 2020, 35, 2487-2499.	1.9	19
40	Mapping the spatial disparities in urban health care services using taxi trajectories data. <i>Transactions in GIS</i> , 2018, 22, 602-615.	1.0	18
41	Defining agents' behaviour based on urban economic theory to simulate complex urban residential dynamics. <i>International Journal of Geographical Information Science</i> , 2012, 26, 1155-1172.	2.2	17
42	GPU-CA model for large-scale land-use change simulation. <i>Science Bulletin</i> , 2012, 57, 2442-2452.	1.7	17
43	An Urban Flooding Index for Unsupervised Inundated Urban Area Detection Using Sentinel-1 Polarimetric SAR Images. <i>Remote Sensing</i> , 2021, 13, 4511.	1.8	11
44	Amplification Effect of Urbanization on Atmospheric Aridity Over China Under Past Global Warming. <i>Earth's Future</i> , 2022, 10, .	2.4	11
45	A novel unsupervised deep learning method for the generalization of urban form. <i>Geo-Spatial Information Science</i> , 2022, 25, 568-587.	2.4	9
46	Detecting industry clusters from the bottom up based on co-location patterns mining: A case study in Dongguan, China. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2021, 48, 2827-2841.	1.0	5
47	Symmetry Analysis of Oriental Polygonal Pagodas Using 3D Point Clouds for Cultural Heritage. <i>Sensors</i> , 2021, 21, 1228.	2.1	4
48	Quantifying the relationships between network distance and straight-line distance: applications in spatial bias correction. <i>Annals of GIS</i> , 2021, 27, 351-369.	1.4	4