

Xun Liang

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

3,093
citations

567281

15
h-index

580821

25
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26
all docs

26
docs citations

26
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensorâ€CA: A highâ€performance cellular automata model for land use simulation based on vectorization and GPU. Transactions in GIS, 2022, 26, 755-778.	2.3	3
2	Optimal Placement of New Isolation Valves in a Water Distribution Network Considering Existing Valves. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	7
3	Mixed-cell cellular automata: A new approach for simulating the spatio-temporal dynamics of mixed land use structures. Landscape and Urban Planning, 2021, 205, 103960.	7.5	65
4	Spatiotemporal distribution of human trafficking in China and predicting the locations of missing persons. Computers, Environment and Urban Systems, 2021, 85, 101567.	7.1	6
5	Simulating urban expansion by incorporating an integrated gravitational field model into a demand-driven random forest-cellular automata model. Cities, 2021, 109, 103044.	5.6	37
6	Understanding the drivers of sustainable land expansion using a patch-generating land use simulation (PLUS) model: A case study in Wuhan, China. Computers, Environment and Urban Systems, 2021, 85, 101569.	7.1	484
7	Modeling the dynamics and walking accessibility of urban open spaces under various policy scenarios. Landscape and Urban Planning, 2021, 207, 103993.	7.5	18
8	MODIS high-resolution MAIAC aerosol product: Global validation and analysis. Atmospheric Environment, 2021, 264, 118684.	4.1	42
9	Variability in and mixtures among residential vacancies at granular levels: Evidence from municipal water consumption data. Computers, Environment and Urban Systems, 2021, 90, 101702.	7.1	6
10	Projections of land use changes under the plant functional type classification in different SSP-RCP scenarios in China. Science Bulletin, 2020, 65, 1935-1947.	9.0	86
11	A novel efficient broadband model to derive daily surface solar Ultraviolet radiation (0.280â€“0.400Å¼m). Science of the Total Environment, 2020, 735, 139513.	8.0	10
12	Spatiotemporal dynamics and the contributing factors of residential vacancy at a fine scale: A perspective from municipal water consumption. Cities, 2020, 103, 102745.	5.6	14
13	Coupling fuzzy clustering and cellular automata based on local maxima of development potential to model urban emergence and expansion in economic development zones. International Journal of Geographical Information Science, 2020, 34, 1930-1952.	4.8	44
14	Simulating urban land use change by integrating a convolutional neural network with vector-based cellular automata. International Journal of Geographical Information Science, 2020, 34, 1475-1499.	4.8	72
15	Global projections of future urban land expansion under shared socioeconomic pathways. Nature Communications, 2020, 11, 537.	12.8	336
16	Analyzing the Effects of Rainfall on Urban Traffic-Congestion Bottlenecks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 504-512.	4.9	9
17	Delineating Mixed Urban â€œJobs-Housingâ€ Patterns at a Fine Scale by Using High Spatial Resolution Remote-Sensing Imagery. Complexity, 2020, 2020, 1-13.	1.6	6
18	Tourism land use simulation for regional tourism planning using POIs and cellular automata. Transactions in GIS, 2020, 24, 1119-1138.	2.3	10

#	ARTICLE	IF	CITATIONS
19	Assessing the impacts of urban sprawl on net primary productivity using fusion of Landsat and MODIS data. <i>Science of the Total Environment</i> , 2018, 613-614, 1417-1429.	8.0	75
20	Delineating multi-scenario urban growth boundaries with a CA-based FLUS model and morphological method. <i>Landscape and Urban Planning</i> , 2018, 177, 47-63.	7.5	301
21	Urban growth simulation by incorporating planning policies into a CA-based future land-use simulation model. <i>International Journal of Geographical Information Science</i> , 2018, 32, 2294-2316.	4.8	177
22	Simulating urban expansion and its impact on functional connectivity in the Three Gorges Reservoir Area. <i>Science of the Total Environment</i> , 2018, 643, 1553-1561.	8.0	36
23	Land-cover mapping using Random Forest classification and incorporating NDVI time-series and texture: a case study of central Shandong. <i>International Journal of Remote Sensing</i> , 2018, 39, 8703-8723.	2.9	103
24	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.	2.2	206
25	A future land use simulation model (FLUS) for simulating multiple land use scenarios by coupling human and natural effects. <i>Landscape and Urban Planning</i> , 2017, 168, 94-116.	7.5	940