

Xun Liang

List of Publications by Year in descending order

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25
papers

3,093
citations

567281

15
h-index

580821

25
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26
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26
docs citations

26
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Understanding the drivers of sustainable land expansion using a patch-generating land use simulation (PLUS) model: A case study in Wuhan, China. <i>Computers, Environment and Urban Systems</i> , 2021, 85, 101569.	7.1	484
3	Global projections of future urban land expansion under shared socioeconomic pathways. <i>Nature Communications</i> , 2020, 11, 537.	12.8	336
4	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
5	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
6	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
7	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
8	Projections of land use changes under the plant functional type classification in different SSP-RCP scenarios in China. <i>Science Bulletin</i> , 2020, 65, 1935-1947.	9.0	86
9	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
10	Simulating urban land use change by integrating a convolutional neural network with vector-based cellular automata. <i>International Journal of Geographical Information Science</i> , 2020, 34, 1475-1499.	4.8	72
11	Mixed-cell cellular automata: A new approach for simulating the spatio-temporal dynamics of mixed land use structures. <i>Landscape and Urban Planning</i> , 2021, 205, 103960.	7.5	65
12	Coupling fuzzy clustering and cellular automata based on local maxima of development potential to model urban emergence and expansion in economic development zones. <i>International Journal of Geographical Information Science</i> , 2020, 34, 1930-1952.	4.8	44
13	MODIS high-resolution MAIAC aerosol product: Global validation and analysis. <i>Atmospheric Environment</i> , 2021, 264, 118684.	4.1	42
14	Simulating urban expansion by incorporating an integrated gravitational field model into a demand-driven random forest-cellular automata model. <i>Cities</i> , 2021, 109, 103044.	5.6	37
15	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
16	Modeling the dynamics and walking accessibility of urban open spaces under various policy scenarios. <i>Landscape and Urban Planning</i> , 2021, 207, 103993.	7.5	18
17	Spatiotemporal dynamics and the contributing factors of residential vacancy at a fine scale: A perspective from municipal water consumption. <i>Cities</i> , 2020, 103, 102745.	5.6	14
18	A novel efficient broadband model to derive daily surface solar Ultraviolet radiation (0.280-0.400µm). <i>Science of the Total Environment</i> , 2020, 735, 139513.	8.0	10

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19	Tourism land use simulation for regional tourism planning using POIs and cellular automata. Transactions in GIS, 2020, 24, 1119-1138.	2.3	10
20	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
21	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
22	Delineating Mixed Urban "Jobs-Housing" Patterns at a Fine Scale by Using High Spatial Resolution Remote-Sensing Imagery. Complexity, 2020, 2020, 1-13.	1.6	6
23	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
24	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
25	TensorCA: A high-performance cellular automata model for land use simulation based on vectorization and GPU. Transactions in GIS, 2022, 26, 755-778.	2.3	3