

Yan-xu Liu

List of Publications by Year in descending order

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86
papers

6,195
citations

87888

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docs citations

87
times ranked

3520
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecosystem services response to urbanization in metropolitan areas: Thresholds identification. <i>Science of the Total Environment</i> , 2017, 607-608, 706-714.	8.0	397
2	Urban thermal environment dynamics and associated landscape pattern factors: A case study in the Beijing metropolitan region. <i>Remote Sensing of Environment</i> , 2016, 173, 145-155.	11.0	394
3	Linking ecosystem services and circuit theory to identify ecological security patterns. <i>Science of the Total Environment</i> , 2018, 644, 781-790.	8.0	389
4	Seasonal contrast of the dominant factors for spatial distribution of land surface temperature in urban areas. <i>Remote Sensing of Environment</i> , 2018, 215, 255-267.	11.0	316
5	Linking ecological degradation risk to identify ecological security patterns in a rapidly urbanizing landscape. <i>Habitat International</i> , 2018, 71, 110-124.	5.8	312
6	Drivers and impacts of changes in China's drylands. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 858-873.	29.7	255
7	Linking ecosystem services and landscape patterns to assess urban ecosystem health: A case study in Shenzhen City, China. <i>Landscape and Urban Planning</i> , 2015, 143, 56-68.	7.5	225
8	Significant trade-off for the impact of Grain-for-Green Programme on ecosystem services in North-western Yunnan, China. <i>Science of the Total Environment</i> , 2017, 574, 57-64.	8.0	211
9	Coupling ecosystem services supply and human ecological demand to identify landscape ecological security pattern: A case study in Beijing-Tianjin-Hebei region, China. <i>Urban Ecosystems</i> , 2017, 20, 701-714.	2.4	193
10	Spatial-temporal change of land surface temperature across 285 cities in China: An urban-rural contrast perspective. <i>Science of the Total Environment</i> , 2018, 635, 487-497.	8.0	171
11	Influence of land use change on the ecosystem service trade-offs in the ecological restoration area: Dynamics and scenarios in the Yanhe watershed, China. <i>Science of the Total Environment</i> , 2018, 644, 556-566.	8.0	166
12	Applying ant colony algorithm to identify ecological security patterns in megacities. <i>Environmental Modelling and Software</i> , 2019, 117, 214-222.	4.5	146
13	Linking spatial differentiation with sustainability management: Academic contributions and research directions of physical geography in China. <i>Progress in Physical Geography</i> , 2020, 44, 14-30.	3.2	142
14	Correlations between Urbanization and Vegetation Degradation across the World's Metropolises Using DMSP/OLS Nighttime Light Data. <i>Remote Sensing</i> , 2015, 7, 2067-2088.	4.0	131
15	Integrating ecosystem services trade-offs with paddy land-to-dry land decisions: A scenario approach in Erhai Lake Basin, southwest China. <i>Science of the Total Environment</i> , 2018, 625, 849-860.	8.0	126
16	Spatial-temporal patterns of water use efficiency and climate controls in China's Loess Plateau during 2000-2010. <i>Science of the Total Environment</i> , 2016, 565, 105-122.	8.0	123
17	Spatial-temporal dynamics and associated driving forces of urban ecological land: A case study in Shenzhen City, China. <i>Habitat International</i> , 2017, 60, 81-90.	5.8	121
18	Net primary productivity (NPP) dynamics and associated urbanization driving forces in metropolitan areas: a case study in Beijing City, China. <i>Landscape Ecology</i> , 2016, 31, 1077-1092.	4.2	114

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19	NDVI-Based Analysis on the Influence of Climate Change and Human Activities on Vegetation Restoration in the Shaanxi-Gansu-Ningxia Region, Central China. <i>Remote Sensing</i> , 2015, 7, 11163-11182.	4.0	113
20	Spatial identification of multifunctional landscapes and associated influencing factors in the Beijing-Tianjin-Hebei region, China. <i>Applied Geography</i> , 2016, 74, 170-181.	3.7	104
21	Assessing Landscape Ecological Risk in a Mining City: A Case Study in Liaoyuan City, China. <i>Sustainability</i> , 2015, 7, 8312-8334.	3.2	93
22	Multifunctionality assessment of urban agriculture in Beijing City, China. <i>Science of the Total Environment</i> , 2015, 537, 343-351.	8.0	91
23	Landscape functional zoning at a county level based on ecosystem services bundle: Methods comparison and management indication. <i>Journal of Environmental Management</i> , 2019, 249, 109315.	7.8	74
24	Multifunctional landscapes identification and associated development zoning in mountainous area. <i>Science of the Total Environment</i> , 2019, 660, 765-775.	8.0	74
25	Quantifying spatial morphology and connectivity of urban heat islands in a megacity: A radius approach. <i>Science of the Total Environment</i> , 2020, 714, 136792.	8.0	71
26	Efficiency of landscape metrics characterizing urban land surface temperature. <i>Landscape and Urban Planning</i> , 2018, 180, 36-53.	7.5	69
27	Integrating regional and interregional approaches to identify ecological security patterns. <i>Landscape Ecology</i> , 2021, 36, 2151-2164.	4.2	69
28	Spatial Consistency Assessments for Global Land-Cover Datasets: A Comparison among GLC2000, CCI LC, MCD12, GLOBCOVER and GLCNMO. <i>Remote Sensing</i> , 2018, 10, 1846.	4.0	63
29	Scenario-based ecological security patterns to indicate landscape sustainability: a case study on the Qinghai-Tibet Plateau. <i>Landscape Ecology</i> , 2021, 36, 2175-2188.	4.2	63
30	A systematic approach is needed to contain COVID-19 globally. <i>Science Bulletin</i> , 2020, 65, 876-878.	9.0	57
31	Metacoupling supply and demand for soil conservation service. <i>Current Opinion in Environmental Sustainability</i> , 2018, 33, 136-141.	6.3	53
32	Yellow River water rebalanced by human regulation. <i>Scientific Reports</i> , 2019, 9, 9707.	3.3	53
33	The Global-DEP conceptual framework – research on dryland ecosystems to promote sustainability. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 17-28.	6.3	52
34	Relationships of multiple landscape services and their influencing factors on the Qinghai-Tibet Plateau. <i>Landscape Ecology</i> , 2021, 36, 1987-2005.	4.2	48
35	Response of vegetation to drought in the Tibetan Plateau: Elevation differentiation and the dominant factors. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108468.	4.8	47
36	Human activity vs. climate change: Distinguishing dominant drivers on LAI dynamics in karst region of southwest China. <i>Science of the Total Environment</i> , 2021, 769, 144297.	8.0	45

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37	Construction of Ecological Security Patterns in Nature Reserves Based on Ecosystem Services and Circuit Theory: A Case Study in Wenchuan, China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3220.	2.6	44
38	Spatial identification of conservation priority areas for urban ecological land: An approach based on water ecosystem services. <i>Land Degradation and Development</i> , 2019, 30, 683-694.	3.9	44
39	Vegetation Dynamics and Associated Driving Forces in Eastern China during 1999â€“2008. <i>Remote Sensing</i> , 2015, 7, 13641-13663.	4.0	42
40	Driving forces and their contribution to the recent decrease in sediment flux to ocean of major rivers in China. <i>Science of the Total Environment</i> , 2018, 634, 534-541.	8.0	40
41	Structure, function, and dynamic mechanisms of coupled humanâ€“natural systems. <i>Current Opinion in Environmental Sustainability</i> , 2018, 33, 87-91.	6.3	39
42	Sustainable landscape pattern: a landscape approach to serving spatial planning. <i>Landscape Ecology</i> , 2022, 37, 31-42.	4.2	39
43	Socio-cultural valuation of rural and urban perception on ecosystem services and human well-being in Yanhe watershed of China. <i>Journal of Environmental Management</i> , 2019, 251, 109615.	7.8	38
44	Identification of the geographical factors influencing the relationships between ecosystem services in the Belt and Road region from 2010 to 2030. <i>Journal of Cleaner Production</i> , 2020, 275, 124153.	9.3	38
45	Diversification of Land Surface Temperature Change under Urban Landscape Renewal: A Case Study in the Main City of Shenzhen, China. <i>Remote Sensing</i> , 2017, 9, 919.	4.0	35
46	Global rainfall erosivity changes between 1980 and 2017 based on an erosivity model using daily precipitation data. <i>Catena</i> , 2020, 194, 104768.	5.0	34
47	Evaluation of ecosystem resilience to drought based on drought intensity and recovery time. <i>Agricultural and Forest Meteorology</i> , 2022, 314, 108809.	4.8	34
48	Greater increases in China's dryland ecosystem vulnerability in drier conditions than in wetter conditions. <i>Journal of Environmental Management</i> , 2021, 291, 112689.	7.8	31
49	Effects of reforestation on plant species diversity on the Loess Plateau of China: A case study in Danangou catchment. <i>Science of the Total Environment</i> , 2019, 651, 979-989.	8.0	29
50	Analyzing nonlinear variations in terrestrial vegetation in China during 1982â€“2012. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 722.	2.7	28
51	A solution to the conflicts of multiple planning boundaries: Landscape functional zoning in a resource-based city in China. <i>Habitat International</i> , 2018, 77, 43-55.	5.8	26
52	Application of partial least squares regression in detecting the important landscape indicators determining urban land surface temperature variation. <i>Landscape Ecology</i> , 2018, 33, 1133-1145.	4.2	26
53	Evaluating the ecological benefits of plantations in arid areas from the perspective of ecosystem service supply and demand-based on emergy analysis. <i>Science of the Total Environment</i> , 2020, 705, 135853.	8.0	26
54	Integrating land development size, pattern, and density to identify urbanâ€“rural fringe in a metropolitan region. <i>Landscape Ecology</i> , 2020, 35, 2045-2059.	4.2	26

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55	Promoting sustainable landscape pattern for landscape sustainability. <i>Landscape Ecology</i> , 2021, 36, 1839-1844.	4.2	26
56	New Developments and Perspectives in Physical Geography in China. <i>Chinese Geographical Science</i> , 2019, 29, 363-371.	3.0	23
57	Vulnerability assessment of the global water erosion tendency: Vegetation greening can partly offset increasing rainfall stress. <i>Land Degradation and Development</i> , 2019, 30, 1061-1069.	3.9	23
58	Slower vegetation greening faced faster social development on the landscape of the Belt and Road region. <i>Science of the Total Environment</i> , 2019, 697, 134103.	8.0	20
59	Evaluation of Six Satellite and Reanalysis Precipitation Products Using Gauge Observations over the Yellow River Basin, China. <i>Atmosphere</i> , 2020, 11, 1223.	2.3	20
60	The contribution of ecosystem restoration to sustainable development goals in Asian drylands: A literature review. <i>Land Degradation and Development</i> , 2021, 32, 4472-4483.	3.9	20
61	Landscape pattern change simulations in Tibet based on the combination of the SSP-RCP scenarios. <i>Journal of Environmental Management</i> , 2021, 292, 112783.	7.8	19
62	Representation of biodiversity and ecosystem services in East Africa's protected area network. <i>Ambio</i> , 2020, 49, 245-257.	5.5	18
63	Balancing Carbon Emission Reductions and Social Economic Development for Sustainable Development: Experience from 24 Countries. <i>Chinese Geographical Science</i> , 2020, 30, 379-396.	3.0	16
64	Effects of minimum soil disturbance practices on controlling water erosion in China's slope farmland: A meta-analysis. <i>Land Degradation and Development</i> , 2019, 30, 706-716.	3.9	15
65	A retrospective analysis on changes in sediment flux in the Mississippi River system: trends, driving forces, and implications. <i>Journal of Soils and Sediments</i> , 2020, 20, 1719-1729.	3.0	15
66	Improving representation of collective memory in socio-hydrological models and new insights into flood risk management. <i>Journal of Flood Risk Management</i> , 2021, 14, e12679.	3.3	15
67	Recover the food-energy-water nexus from COVID-19 under Sustainable Development Goals acceleration actions. <i>Science of the Total Environment</i> , 2022, 817, 153013.	8.0	15
68	The application of polynomial analyses to detect global vegetation dynamics during 1982-2012. <i>International Journal of Remote Sensing</i> , 2016, 37, 1568-1584.	2.9	13
69	Global Surface Soil Moisture Dynamics in 1979-2016 Observed from ESA CCI SM Dataset. <i>Water (Switzerland)</i> , 2019, 11, 883.	2.7	13
70	Quantifying responses of net primary productivity to agricultural expansion in drylands. <i>Land Degradation and Development</i> , 2021, 32, 2050-2060.	3.9	13
71	China's Land Cover Fraction Change during 2001-2015 Based on Remote Sensed Data Fusion between MCD12 and CCI-LC. <i>Remote Sensing</i> , 2021, 13, 341.	4.0	13
72	Integrating Spatial Continuous Wavelet Transform and Normalized Difference Vegetation Index to Map the Agro-Pastoral Transitional Zone in Northern China. <i>Remote Sensing</i> , 2018, 10, 1928.	4.0	12

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73	Spatiotemporal Distribution of Zika Virus and Its Spatially Heterogeneous Relationship with the Environment. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 290.	2.6	12
74	Spatio-temporal patterns of oasis dynamics in China's drylands between 1987 and 2017. <i>Environmental Research Letters</i> , 2022, 17, 064044.	5.2	11
75	Sediment transport under increasing anthropogenic stress: Regime shifts within the Yellow River, China. <i>Ambio</i> , 2020, 49, 2015-2025.	5.5	10
76	Regional differentiation in the ecological effects of land cover change in China. <i>Land Degradation and Development</i> , 2022, 33, 346-357.	3.9	10
77	Assessing the Atmospheric Oxygen Balance in a Region of Rapid Urbanization: A Case Study in the Pearl River Delta, China. <i>Sustainability</i> , 2015, 7, 13055-13072.	3.2	9
78	Identification of Non-economic Influencing Factors Affecting Farmer's Participation in the Paddy Land-to-Dry Land Program in Chicheng County, China. <i>Sustainability</i> , 2017, 9, 366.	3.2	9
79	Identification of multiple climatic extremes in metropolis: a comparison of Guangzhou and Shenzhen, China. <i>Natural Hazards</i> , 2015, 79, 939-953.	3.4	7
80	Assessment on the Soil Retention Service of Water Erosion in the Nile River Basin Considering Vegetation Factor Variance from 1982 to 2013. <i>Water (Switzerland)</i> , 2020, 12, 2018.	2.7	6
81	The water, food, energy, and ecosystem nexus in the Asian Alpine Belt: Research progress and future directions for achieving sustainable development goals. <i>Progress in Physical Geography</i> , 2021, 45, 789-801.	3.2	5
82	Enhanced coupling of light use efficiency and water use efficiency in arid and semi-arid environments. <i>Ecohydrology</i> , 2022, 15, e2391.	2.4	5
83	A warmer winter followed by a colder summer contributed to a longer recovery time in the high latitudes of Northeast China. <i>Agricultural and Forest Meteorology</i> , 2022, 321, 108979.	4.8	5
84	Soil conservation assessment via climate change and vegetation growth scenarios in the Nile River basin. <i>Journal of Mountain Science</i> , 2021, 18, 863-877.	2.0	3
85	Nitrogen Emissions-Based Assessment of Anthropogenic Regional Ecological Risk: An Example of Taiwanese Urbanization, 1990-2015. <i>Environmental Management</i> , 2018, 62, 968-986.	2.7	2
86	Vegetation-Ice-Bare Land Cover Conversion in the Oceanic Glacial Region of Tibet Based on Multiple Machine Learning Classifications. <i>Remote Sensing</i> , 2020, 12, 999.	4.0	2