Yihe Lu

List of Publications by Year
in descending order

92 papers	7,284 citations	94269 37 h-index	56606 83 g-index
93 all docs	93 docs citations	93 times ranked	4977 citing authors

#	Article	IF	Citations
1	Revegetation in Chinaâ€™s Loess Plateau is approaching sustainable water resource limits. Nature Climate Change, 2016, 6, 1019-1022.	8.1	1,270
2	Reduced sediment transport in the Yellow River due to anthropogenic changes. Nature Geoscience, 2016, 9, 38-41.	5.4	948
3	Assessing the soil erosion control service of ecosystems change in the Loess Plateau of China. Ecological Complexity, 2011, 8, 284-293.	1.4	681
4	A Policy-Driven Large Scale Ecological Restoration: Quantifying Ecosystem Services Changes in the Loess Plateau of China. PLoS ONE, 2012, 7, e31782.	1.1	392
5	Soil and water conservation on the Loess Plateau in China: review and perspective. Progress in Physical Geography, 2007, 31, 389-403.	1.4	380
6	Vegetation changes in recent large-scale ecological restoration projects and subsequent impact on water resources in China's Loess Plateau. Science of the Total Environment, 2016, 569-570, 1032-1039.	3.9	218
7	Recent ecological transitions in China: greening, browning and influential factors. Scientific Reports, 2015, 5, 8732.	1.6	189
8	Effects of vegetation restoration on soil organic carbon sequestration at multiple scales in semi-arid Loess Plateau, China. Catena, 2011, 85, 58-66.	2.2	181
9	Quantifying the spatio-temporal drivers of planned vegetation restoration on ecosystem services at a regional scale. Science of the Total Environment, 2019, 650, 1029-1040.	3.9	115
10	Check Dam in the Loess Plateau of China: Engineering for Environmental Services and Food Security.. Environmental Science & Technology, 2011, 45, 10298-10299.	4.6	114
11	Spatially explicit simulation of land use/land cover changes: Current coverage and future prospects. Earth-Science Reviews, 2019, 190, 398-415.	4.0	108
12	Ecosystem service value of the Qinghai-Tibet Plateau significantly increased during 25Âyears. Ecosystem Services, 2020, 44, 101146.	2.3	107
13	Local-Scale Spatial Variability of Soil Organic Carbon and its Stock in the Hilly Area of the Loess Plateau, China. Quaternary Research, 2010, 73, 70-76.	1.0	101
14	Temporal variation and spatial scale dependency of ecosystem service interactions: a case study on the central Loess Plateau of China. Landscape Ecology, 2017, 32, 1201-1217.	1.9	100
15	Half century change of interactions among ecosystem services driven by ecological restoration: Quantification and policy implications at a watershed scale in the Chinese Loess Plateau. Science of the Total Environment, 2019, 651, 2546-2557.	3.9	96
16	Balancing multiple ecosystem services in conservation priority setting. Landscape Ecology, 2015, 30, 535-546.	1.9	95
17	Quantifying the impacts of grassland restoration on biodiversity and ecosystem services in China: A meta-analysis. Ecological Engineering, 2016, 95, 542-550.	1.6	93
18	Responses of water erosion to rainfall extremes and vegetation types in a loess semiarid hilly area, NW China. Hydrological Processes, 2009, 23, 1780-1791.	1.1	83

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19	The role of climatic and anthropogenic stresses on long-term runoff reduction from the Loess Plateau, China. Science of the Total Environment, 2016, 571, 688-698.	3.9	75
20	Remote sensing of ecosystem services: An opportunity for spatially explicit assessment. Chinese Geographical Science, 2010, 20, 522-535.	1.2	74
21	Identifying ecological security patterns based on the supply, demand and sensitivity of ecosystem service: A case study in the Yellow River Basin, China. Journal of Environmental Management, 2022, 315, 115158.	3.8	68
22	Evaluation of AMSR-E retrieval by detecting soil moisture decrease following massive dryland re-vegetation in the Loess Plateau, China. Remote Sensing of Environment, 2017, 196, 253-264.	4.6	64
23	SAORES: a spatially explicit assessment and optimization tool for regional ecosystem services. Landscape Ecology, 2015, 30, 547-560.	1.9	63
24	Ecosystem management based on ecosystem services and human activities: a case study in the Yanhe watershed. Sustainability Science, 2012, 7, 17-32.	2.5	60
25	Bundling ecosystem services for detecting their interactions driven by large-scale vegetation restoration: enhanced services while depressed synergies. Ecological Indicators, 2019, 99, 332-342.	2.6	60
26	Major Ecosystems in China: Dynamics and Challenges for Sustainable Management. Environmental Management, 2011, 48, 13-27.	1.2	59
27	The multi-scale spatial variance of soil moisture in the semi-arid Loess Plateau of China. Journal of Soils and Sediments, 2012, 12, 694-703.	1.5	58
28	Land use change and anthropogenic driving forces: A case study in Yanhe River Basin. Chinese Geographical Science, 2011, 21, 587-599.	1.2	55
29	Quantifying the effect of ecological restoration on runoff and sediment yields. Progress in Physical Geography, 2017, 41, 753-774.	1.4	55
30	Contribution of tourism development to protected area management: local stakeholder perspectives. International Journal of Sustainable Development and World Ecology, 2009, 16, 30-36.	3.2	54
31	Carbon retention by check dams: Regional scale estimation. Ecological Engineering, 2012, 44, 139-146.	1.6	54
32	Soil moisture dynamics of typical ecosystems in response to precipitation: A monitoring-based analysis of hydrological service in the Qilian Mountains. Catena, 2015, 129, 63-75.	2.2	51
33	Gauging policy-driven large-scale vegetation restoration programmes under a changing environment: Their effectiveness and socio-economic relationships. Science of the Total Environment, 2017, 607-608, 911-919.	3.9	48
34	Exploring the effects of the â€œGrain for Greenâ€• program on the differences in soil water in the semi-arid Loess Plateau of China. Ecological Engineering, 2017, 107, 144-151.	1.6	45
35	A Route Map for Successful Applications of Geographically Weighted Regression. Geographical Analysis, 2023, 55, 155-178.	1.9	45
36	How to integrate remotely sensed data and biodiversity for ecosystem assessments at landscape scale. Landscape Ecology, 2015, 30, 501-516.	1.9	43

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37	Representation of critical natural capital in China. Conservation Biology, 2017, 31, 894-902.	2.4	41
38	Driving Factors of Land Change in Chinaâ€™s Loess Plateau: Quantification Using Geographically Weighted Regression and Management Implications. Remote Sensing, 2020, 12, 453.	1.8	39
39	Soil Carbon and Nitrogen Changes following Afforestation of Marginal Cropland across a Precipitation Gradient in Loess Plateau of China. PLoS ONE, 2014, 9, e85426.	1.1	34
40	Sap flow and water use sources of shelterâ€belt trees in an arid inland river basin of Northwest China. Ecohydrology, 2015, 8, 1446-1458.	1.1	33
41	Carbon Sequestration Function of Check-Dams: A Case Study of the Loess Plateau in China. Ambio, 2014, 43, 926-931.	2.8	32
42	Biodiversity and Ecosystem Functional Enhancement by Forest Restoration: A Metaâ€analysis in China. Land Degradation and Development, 2017, 28, 2062-2073.	1.8	32
43	River flow is critical for vegetation dynamics: Lessons from multi-scale analysis in a hyper-arid endorheic basin. Science of the Total Environment, 2017, 603-604, 290-298.	3.9	32
44	Multi-scale analyses on the ecosystem services in the Chinese Loess Plateau and implications for dryland sustainability. Current Opinion in Environmental Sustainability, 2021, 48, 1-9.	3.1	32
45	Peri-urbanization may vary with vegetation restoration: A large scale regional analysis. Urban Forestry and Urban Greening, 2018, 29, 77-87.	2.3	31
46	Mapping Land Use/Cover Dynamics of the Yellow River Basin from 1986 to 2018 Supported by Google Earth Engine. Remote Sensing, 2021, 13, 1299.	1.8	31
47	Integrating vegetation suitability in sustainable revegetation for the Loess Plateau, China. Science of the Total Environment, 2021, 759, 143572.	3.9	30
48	A conceptual model for a process-oriented landscape pattern analysis. Science China Earth Sciences, 2019, 62, 2050-2057.	2.3	27
49	Determining critical thresholds of ecological restoration based on ecosystem service index: A case study in the Pingjiang catchment in southern China. Journal of Environmental Management, 2022, 303, 114220.	3.8	26
50	Spatiotemporal scale and integrative methods matter for quantifying the driving forces of land cover change. Science of the Total Environment, 2020, 739, 139622.	3.9	25
51	Grassland gross carbon dioxide uptake based on an improved model tree ensemble approach considering human interventions: global estimation and covariation with climate. Global Change Biology, 2017, 23, 2720-2742.	4.2	24
52	Poverty reduction, environmental protection and ecosystem services: A prospective theory for sustainable development. Chinese Geographical Science, 2014, 24, 83-92.	1.2	23
53	Effects of Land Use Change on Soil Carbon Storage and Water Consumption in an Oasis-Desert Ecotone. Environmental Management, 2014, 53, 1066-1076.	1.2	22
54	The synergistic effects of afforestation and the construction of checkâ€dams on sediment trapping: Four decades of evolution on the Loess Plateau, China. Land Degradation and Development, 2019, 30, 622-635.	1.8	22

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55	Assessing Impacts of Land Use/Land Cover Conversion on Changes in Ecosystem Services Value on the Loess Plateau, China. Sustainability, 2020, 12, 7128.	1.6	21
56	What motivates farmers to participate in sustainable agriculture? Evidence and policy implications. International Journal of Sustainable Development and World Ecology, 2009, 16, 374-380.	3.2	20
57	A framework for the regional critical zone classification: the case of the Chinese Loess Plateau. National Science Review, 2019, 6, 14-18.	4.6	20
58	A multiscale soil loss evaluation index. Science Bulletin, 2006, 51, 448-456.	1.7	19
59	Linking vegetation cover patterns to hydrological responses using two process-based pattern indices at the plot scale. Science China Earth Sciences, 2013, 56, 1888-1898.	2.3	19
60	Scaling effects of landscape metrics: a comparison of two methods. Physical Geography, 2013, 34, 40-49.	0.6	19
61	Spatial explicit soil moisture analysis: pattern and its stability at small catchment scale in the loess hilly region of China. Hydrological Processes, 2014, 28, 4091-4109.	1.1	19
62	Analysis of the Driving Forces in Vegetation Variation in the Grain for Green Program Region, China. Sustainability, 2017, 9, 1853.	1.6	19
63	A Modified Change Vector Approach for Quantifying Land Cover Change. Remote Sensing, 2018, 10, 1578.	1.8	19
64	Spatial heterogeneous response of land use and landscape functions to ecological restoration: the case of the Chinese loess hilly region. Environmental Earth Sciences, 2014, 72, 2683-2696.	1.3	18
65	Spatio-temporal characteristics and driving forces of landscape structure changes in the middle reach of the Heihe River Basin from 1990 to 2015. Landscape Ecology, 2019, 34, 755-770.	1.9	18
66	Expanding the bridging capability of landscape ecology. Landscape Ecology, 2008, 23, 375-376.	1.9	16
67	Estimation of Global Grassland Net Ecosystem Carbon Exchange Using a Model Tree Ensemble Approach. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005034.	1.3	16
68	Rapid Urbanization and Agricultural Intensification Increase Regional Evaporative Water Consumption of the Loess Plateau. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033380.	1.2	16
69	Geodiversity underpins biodiversity but the relations can be complex: Implications from two biodiversity proxies. Global Ecology and Conservation, 2021, 31, e01830.	1.0	15
70	Managing landscape heterogeneity in different socio-ecological contexts: contrasting cases from central Loess Plateau of China and southern Finland. Landscape Ecology, 2015, 30, 463-475.	1.9	13
71	When multi-functional landscape meets Critical Zone science: advancing multi-disciplinary research for sustainable human well-being. National Science Review, 2019, 6, 349-358.	4.6	13
72	Ecosystem Service: From Virtual Reality to Ground Truth. Environmental Science & Technology, 2012, 46, 2492-2493.	4.6	12

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73	Multi-scale variability of soil carbon and nitrogen in the middle reaches of the Heihe River basin, northwestern China. Catena, 2016, 137, 328-339.	2.2	12
74	Ecosystem restoration in Europe: Can analogies to Traditional Chinese Medicine facilitate the cross-policy harmonization on managing socio-ecological systems?. Science of the Total Environment, 2019, 657, 1553-1567.	3.9	12
75	Scale and landscape features matter for understanding the performance of large payments for ecosystem services. Landscape and Urban Planning, 2020, 197, 103764.	3.4	12
76	Mapping critical natural capital at a regional scale: spatiotemporal variations and the effectiveness of priority conservation. Environmental Research Letters, 2020, 15, 124025.	2.2	12
77	Fledging Critical Zone Science for Environmental Sustainability. Environmental Science & Technology, 2017, 51, 8209-8211.	4.6	11
78	The effects of restoration on vegetation trends: spatiotemporal variability and influencing factors. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 473-481.	0.3	9
79	Effects of different functional structure parameters of plant communities on slope runoff in different periods of the year in semiarid grasslands. Science of the Total Environment, 2020, 713, 136705.	3.9	9
80	Roots of forbs sense climate fluctuations in the semi-arid Loess Plateau: Herb-chronology based analysis. Scientific Reports, 2016, 6, 28435.	1.6	8
81	Resolving the Conflicts Between Biodiversity Conservation and Socioeconomic Development in China: Fuzzy Clustering Approach. Biodiversity and Conservation, 2006, 15, 2813-2827.	1.2	6
82	An effective accuracy assessment indicator for credible land use change modelling: Insights from hypothetical and real landscape analyses. Ecological Indicators, 2020, 117, 106552.	2.6	6
83	Quantifying the Variability of Forest Ecosystem Vulnerability in the Largest Water Tower Region Globally. International Journal of Environmental Research and Public Health, 2021, 18, 7529.	1.2	6
84	Spatiotemporal variability of water ecosystem services can be effectively quantified by a composite indicator approach. Ecological Indicators, 2021, 130, 108061.	2.6	6
85	Short-Term Grazing Exclusion Alters Soil Bacterial Co-occurrence Patterns Rather Than Community Diversity or Composition in Temperate Grasslands. Frontiers in Microbiology, 2022, 13, 824192.	1.5	6
86	Effects of retired steepland afforestation on soil properties: A case study in the Loess Plateau of China. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2012, , 1-9.	0.3	4
87	Uncertainties of Two Methods in Selecting Priority Areas for Protecting Soil Conservation Service at Regional Scale. Sustainability, 2017, 9, 1577.	1.6	4
88	Land Degradation Research: The Need for a Broader Focus. Environmental Science & Technology, 2015, 49, 689-690.	4.6	3
89	Soil Hydrothermal Characteristics among Three Typical Vegetation Types: An Eco-Hydrological Analysis in the Qilian Mountains, China. Water (Switzerland), 2019, 11, 1277.	1.2	3
90	The Forgotten Semantics of Regression Modeling in Geography. Geographical Analysis, 2021, 53, 113-134.	1.9	2

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91	A holistic framework for facilitating environmental and human health. Geography and Sustainability, 2021, 2, 298-303.	1.9	1
92	Spatiotemporal Variations in Grassland Vulnerability on the Qinghai-Tibet Plateau Based on a Comprehensive Framework. Sustainability, 2022, 14, 4912.	1.6	1