

# Hua Zheng

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85  
papers

3,782  
citations

26  
h-index

61  
g-index

94  
ext. papers

5,207  
ext. citations

5.9  
avg, IF

5.33  
L-index

#	Paper	IF	Citations
85	Improvements in ecosystem services from investments in natural capital. <i>Science</i> , <b>2016</b> , 352, 1455-9	33.3	686
84	China's response to a national land-system sustainability emergency. <i>Nature</i> , <b>2018</b> , 559, 193-204	50.4	420
83	Nature and mental health: An ecosystem service perspective. <i>Science Advances</i> , <b>2019</b> , 5, eaax0903	14.3	391
82	Strengthening protected areas for biodiversity and ecosystem services in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 1601-1606	11.5	283
81	Spatial pattern of greenspace affects land surface temperature: evidence from the heavily urbanized Beijing metropolitan area, China. <i>Landscape Ecology</i> , <b>2012</b> , 27, 887-898	4.3	254
80	Benefits, costs, and livelihood implications of a regional payment for ecosystem service program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16681-6	11.5	148
79	Using ecosystem service trade-offs to inform water conservation policies and management practices. <i>Frontiers in Ecology and the Environment</i> , <b>2016</b> , 14, 527-532	5.5	101
78	Impacts of reforestation approaches on runoff control in the hilly red soil region of Southern China. <i>Journal of Hydrology</i> , <b>2008</b> , 356, 174-184	6	82
77	Variation of carbon storage by different reforestation types in the hilly red soil region of southern China. <i>Forest Ecology and Management</i> , <b>2008</b> , 255, 1113-1121	3.9	77
76	Impacts of conservation and human development policy across stakeholders and scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7396-401	11.5	76
75	Using gross ecosystem product (GEP) to value nature in decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 14593-14601	11.5	74
74	Concentration and Size Distribution of Culturable Airborne Microorganisms in Outdoor Environments in Beijing, China. <i>Aerosol Science and Technology</i> , <b>2008</b> , 42, 325-334	3.4	71
73	Realizing the values of natural capital for inclusive, sustainable development: Informing China's new ecological development strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 8623-8628	11.5	67
72	Ecosystem service synergies/trade-offs informing the supply-demand match of ecosystem services: Framework and application. <i>Ecosystem Services</i> , <b>2019</b> , 37, 100939	6.1	56
71	Changes in soil microbial community structure and metabolic activity following conversion from native <i>Pinus massoniana</i> plantations to exotic <i>Eucalyptus</i> plantations. <i>Forest Ecology and Management</i> , <b>2013</b> , 291, 65-72	3.9	53
70	Evaluating indirect and direct effects of eco-restoration policy on soil conservation service in Yangtze River Basin. <i>Science of the Total Environment</i> , <b>2018</b> , 631-632, 887-894	10.2	52
69	Mapping ecosystem services bundles to detect high- and low-value ecosystem services areas for land use management. <i>Journal of Cleaner Production</i> , <b>2019</b> , 225, 11-17	10.3	47

68	Modeling hydrological ecosystem services and tradeoffs: a case study in Baiyangdian watershed, China. <i>Environmental Earth Sciences</i> , <b>2013</b> , 70, 709-718	2.9	44
67	Plant species composition in green spaces within the built-up areas of Beijing, China. <i>Plant Ecology</i> , <b>2010</b> , 209, 189-204	1.7	44
66	Hidden Loss of Wetlands in China. <i>Current Biology</i> , <b>2019</b> , 29, 3065-3071.e2	6.3	37
65	Coordinating ecosystem service trade-offs to achieve win-win outcomes: A review of the approaches. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 82, 103-112	6.4	37
64	Spatial-temporal variations of methane emissions from the Ertan hydroelectric reservoir in southwest China. <i>Hydrological Processes</i> , <b>2011</b> , 25, 1391-1396	3.3	35
63	Mapping Ecosystem Service Bundles to Detect Distinct Types of Multifunctionality within the Diverse Landscape of the Yangtze River Basin, China. <i>Sustainability</i> , <b>2018</b> , 10, 857	3.6	30
62	Impacts of human activities on the hydrology of Baiyangdian Lake, China. <i>Environmental Earth Sciences</i> , <b>2011</b> , 62, 1343-1350	2.9	30
61	Effects of elevated ozone concentration on methane emission from a rice paddy in Yangtze River Delta, China. <i>Global Change Biology</i> , <b>2011</b> , 17, 898-910	11.4	28
60	Conservation of giant panda habitat in South Minshan, China, after the May 2008 earthquake. <i>Frontiers in Ecology and the Environment</i> , <b>2009</b> , 7, 353-358	5.5	28
59	Functional diversity overrides community-weighted mean traits in linking land-use intensity to hydrological ecosystem services. <i>Science of the Total Environment</i> , <b>2019</b> , 682, 583-590	10.2	26
58	The impact on rural livelihoods and ecosystem services of a major relocation and settlement program: A case in Shaanxi, China. <i>Ambio</i> , <b>2018</b> , 47, 245-259	6.5	26
57	Soil microbial community structure and function responses to successive planting of Eucalyptus. <i>Journal of Environmental Sciences</i> , <b>2013</b> , 25, 2102-11	6.4	26
56	Urbanization Impacts on Natural Habitat and Ecosystem Services in the Guangdong-Hong Kong-Macao Megacity. <i>Sustainability</i> , <b>2020</b> , 12, 6675	3.6	24
55	Modeling soil conservation, water conservation and their tradeoffs: a case study in Beijing. <i>Journal of Environmental Sciences</i> , <b>2012</b> , 24, 419-26	6.4	23
54	Carbon metabolism of soil microbial communities of restored forests in Southern China. <i>Journal of Soils and Sediments</i> , <b>2011</b> , 11, 789-799	3.4	23
53	Changes in ecosystem service of soil conservation between 2000 and 2010 and its driving factors in southwestern China. <i>Chinese Geographical Science</i> , <b>2016</b> , 26, 165-173	2.9	21
52	Household Livelihood Strategy Choices, Impact Factors, and Environmental Consequences in Miyun Reservoir Watershed, China. <i>Sustainability</i> , <b>2017</b> , 9, 175	3.6	20
51	Recent patterns of anthropogenic reactive nitrogen emissions with urbanization in China: Dynamics, major problems, and potential solutions. <i>Science of the Total Environment</i> , <b>2019</b> , 656, 1071-1081	10.2	19

50	Optimizing hotspot areas for ecological planning and management based on biodiversity and ecosystem services. <i>Chinese Geographical Science</i> , <b>2016</b> , 26, 256-269	2.9	18
49	A Framework for Regional Ecological Risk Warning Based on Ecosystem Service Approach: A Case Study in Ganzi, China. <i>Sustainability</i> , <b>2018</b> , 10, 2699	3.6	18
48	Spatio-temporal variation of wind erosion in Inner Mongolia of China between 2001 and 2010. <i>Chinese Geographical Science</i> , <b>2016</b> , 26, 155-164	2.9	17
47	Non-linear impacts of Eucalyptus plantation stand age on soil microbial metabolic diversity. <i>Journal of Soils and Sediments</i> , <b>2013</b> , 13, 887-894	3.4	17
46	Time and space catch up with restoration programs that ignore ecosystem service trade-offs. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	17
45	Recent climate trends on the northern slopes of the Tianshan Mountains, Xinjiang, China. <i>Journal of Mountain Science</i> , <b>2009</b> , 6, 255-265	2.1	16
44	Changes in nitrogen budget and potential risk to the environment over 20years (1990-2010) in the agroecosystems of the Haihe Basin, China. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 28, 195-202	6.4	15
43	Sampling adequacy estimation for plant species composition by accumulation curves—a case study of urban vegetation in Beijing, China. <i>Landscape and Urban Planning</i> , <b>2010</b> , 95, 113-121	7.7	14
42	Exotic <i>Pinus carbaea</i> causes soil quality to deteriorate on former abandoned land compared to an indigenous <i>Podocarpus</i> plantation in the tropical forest area of southern China. <i>Journal of Forest Research</i> , <b>2009</b> , 14, 221-228	1.4	11
41	Bright side? The impacts of Three Gorges Reservoir on local ecological service of soil conservation in southwestern China. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	10
40	Relationships between river water quality and landscape factors in Haihe River Basin, China: Implications for environmental management. <i>Chinese Geographical Science</i> , <b>2016</b> , 26, 197-207	2.9	10
39	A review of spatial targeting methods of payment for ecosystem services. <i>Geography and Sustainability</i> , <b>2020</b> , 1, 132-140	7.3	9
38	Classification of the Relationship between Household Welfare and Ecosystem Reliance in the Miyun Reservoir Watershed, China. <i>Sustainability</i> , <b>2017</b> , 9, 2290	3.6	9
37	Dynamic Impacts of Climate and Land-Use Changes on Surface Runoff in the Mountainous Region of the Haihe River Basin, China. <i>Advances in Meteorology</i> , <b>2018</b> , 2018, 1-10	1.7	9
36	Rural Household Livelihood and Tree Plantation Dependence in the Central Mountainous Region of Hainan Island, China: Implications for Poverty Alleviation. <i>Forests</i> , <b>2020</b> , 11, 248	2.8	8
35	Synthetic vulnerability assessment to inform climate-change adaptation along an urbanized coast of Shenzhen, China. <i>Journal of Environmental Management</i> , <b>2020</b> , 255, 109915	7.9	8
34	Matching Ecosystem Services Supply and Demand through Land Use Optimization: A Study of the Guangdong-Hong Kong-Macao Megacity. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	8
33	Using Ecosystem Service Flows to Inform Ecological Compensation: Theory & Application. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	7

32	Analysis of Runoff Trends and Drivers in the Haihe River Basin, China. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	7
31	Artificial reforestation produces less diverse soil nitrogen-cycling genes than natural restoration. <i>Ecosphere</i> , <b>2019</b> , 10, e02562	3.1	7
30	Ecosystem restoration on Hainan Island: can we optimize for enhancing regulating services and poverty alleviation?. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 084039	6.2	6
29	Development and evaluation of a new index to assess hydrologic regulating service at sub-watershed scale. <i>Ecological Indicators</i> , <b>2018</b> , 86, 9-17	5.8	6
28	Impact of nitrogen fertilization on soil-Atmosphere greenhouse gas exchanges in eucalypt plantations with different soil characteristics in southern China. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172142	3.7	6
27	Nitrogen balance dynamics during 2000-2010 in the Yangtze River Basin croplands, with special reference to the relative contributions of cropland area and synthetic fertilizer N application rate changes. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180613	3.7	6
26	Plant functional diversity mediates indirect effects of land-use intensity on soil water conservation in the dry season of tropical areas. <i>Forest Ecology and Management</i> , <b>2021</b> , 480, 118646	3.9	6
25	Temporal Changes in Multiple Ecosystem Services and Their Bundles Responding to Urbanization and Ecological Restoration in the Beijing-Tianjin-Hebei Metropolitan Area. <i>Sustainability</i> , <b>2019</b> , 11, 2079	3.6	5
24	The mediatory roles of species diversity and tree height diversity: Linking the impact of land-use intensity to soil erosion. <i>Land Degradation and Development</i> , <b>2021</b> , 32, 1127-1134	4.4	5
23	Using Characteristic Energy to Study Rural Ethnic Minorities' Household Energy Consumption and Its Impact Factors in Chongqing, China. <i>Sustainability</i> , <b>2020</b> , 12, 6898	3.6	5
22	Telecoupled Sustainable Livelihoods in an Era of Rural-Urban Dynamics: The Case of China. <i>Sustainability</i> , <b>2019</b> , 11, 2716	3.6	4
21	Quantifying Ecosystem Service Trade-Offs to Inform Spatial Identification of Forest Restoration. <i>Forests</i> , <b>2020</b> , 11, 563	2.8	4
20	Land-use intensity indirectly affects soil multifunctionality via a cascade effect of plant diversity on soil bacterial diversity. <i>Global Ecology and Conservation</i> , <b>2020</b> , 23, e01061	2.8	4
19	Reply to Bridgewater and Babin: Need for a new protected area category for ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4319-E4320 <sup>11.5</sup>	11.5	3
18	An improved quality assessment framework to better inform large-scale forest restoration management. <i>Ecological Indicators</i> , <b>2021</b> , 123, 107370	5.8	3
17	Crop Structure Changes Altered the Cropland Nitrogen Balance between 2005 and 2015 on the Sanjiang Plain, China. <i>Sustainability</i> , <b>2018</b> , 10, 4011	3.6	3
16	Forest restoration approaches affect soil compositions of lignin, substituted fatty acids, and lignin degradation-associated genes. <i>Applied Soil Ecology</i> , <b>2019</b> , 138, 213-219	5	2
15	Spatial correlation and ecological characteristics analysis of management area for biodiversity conservation and relevant regionalization. <i>Chinese Geographical Science</i> , <b>2014</b> , 24, 71-82	2.9	2

14	Detecting the Turning Points of Grassland Autumn Phenology on the Qinghai-Tibetan Plateau: Spatial Heterogeneity and Controls. <i>Remote Sensing</i> , <b>2021</b> , 13, 4797	5	2
13	Climate change indirectly enhances sandstorm prevention services by altering ecosystem patterns on the Qinghai-Tibet Plateau. <i>Journal of Mountain Science</i> , <b>2021</b> , 18, 1711-1724	2.1	2
12	Reply to Yang et al.: Coastal wetlands are not well represented by protected areas for endangered birds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E5493	11.5	1
11	Stabilities of soil organic carbon and carbon cycling genes are higher in natural secondary forests than in artificial plantations in southern China. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 2986-2995	4.4	1
10	Improved Hadoop-based cloud for complex model simulation optimization: Calibration of SWAT as an example. <i>Environmental Modelling and Software</i> , <b>2022</b> , 149, 105330	5.2	1
9	Integrating Remotely Sensed Leaf Area Index with Biome-BGC to Quantify the Impact of Land Use/Land Cover Change on Water Retention in Beijing. <i>Remote Sensing</i> , <b>2022</b> , 14, 743	5	1
8	Characteristics of Changes in Karst Rocky Desertification in Southern and Western China and Driving Mechanisms. <i>Chinese Geographical Science</i> , <b>2021</b> , 31, 1082-1096	2.9	1
7	Quantifying Leaf Trait Covariations and Their Relationships with Plant Adaptation Strategies along an Aridity Gradient. <i>Biology</i> , <b>2021</b> , 10,	4.9	1
6	Spatial priorities for biodiversity and ecosystem services considering theoretical decision-makers' attitudes to risk. <i>Environmental Research Communications</i> ,	3.1	1
5	Using Bayesian optimization to automate the calibration of complex hydrological models: Framework and application. <i>Environmental Modelling and Software</i> , <b>2021</b> , 147, 105235	5.2	1
4	Species compositional, structural and functional diversity exerts different effects on soil erosion caused by increased rainfall intensity in Chinese tropical forests. <i>Plant and Soil</i> , <b>2021</b> , 465, 97-108	4.2	1
3	Spatial Heterogeneity of Driving Factors of Wind Erosion Prevention Services in Northern China by Large-Scale Human Land-Use Management. <i>Land</i> , <b>2022</b> , 11, 111	3.5	0
2	Tropical forest strata shifts in plant structural diversity-aboveground carbon relationships along altitudinal gradients.. <i>Science of the Total Environment</i> , <b>2022</b> , 155907	10.2	0
1	Climate Change Will Reduce the Carbon Use Efficiency of Terrestrial Ecosystems on the Qinghai-Tibet Plateau: An Analysis Based on Multiple Models. <i>Forests</i> , <b>2021</b> , 12, 12	2.8	