

# Shuqing Zhao

## List of Publications by Year in descending order

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87  
papers

7,213  
citations

87888

38  
h-index

56724

83  
g-index

90  
all docs

90  
docs citations

90  
times ranked

6910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in Forest Biomass Carbon Storage in China Between 1949 and 1998. <i>Science</i> , 2001, 292, 2320-2322.	12.6	1,202
2	Surface urban heat island in China's 32 major cities: Spatial patterns and drivers. <i>Remote Sensing of Environment</i> , 2014, 152, 51-61.	11.0	569
3	Rapid loss of lakes on the Mongolian Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2281-2286.	7.1	408
4	Ecological consequences of rapid urban expansion: Shanghai, China. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 341-346.	4.0	261
5	The footprint of urban heat island effect in China. <i>Scientific Reports</i> , 2015, 5, 11160.	3.3	248
6	A comparative study of urban expansion in Beijing, Tianjin and Shijiazhuang over the past three decades. <i>Landscape and Urban Planning</i> , 2015, 134, 93-106.	7.5	232
7	Prevalent vegetation growth enhancement in urban environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6313-6318.	7.1	229
8	Biodiversity changes in the lakes of the Central Yangtze. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 369-377.	4.0	210
9	Remotely sensed assessment of urbanization effects on vegetation phenology in China's 32 major cities. <i>Remote Sensing of Environment</i> , 2016, 176, 272-281.	11.0	197
10	The Grain for Green Project induced land cover change in the Loess Plateau: A case study with Ansai County, Shanxi Province, China. <i>Ecological Indicators</i> , 2012, 23, 88-94.	6.3	180
11	Land use change in Asia and the ecological consequences. <i>Ecological Research</i> , 2006, 21, 890-896.	1.5	172
12	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality. <i>Science China Life Sciences</i> , 2022, 65, 861-895.	4.9	163
13	Urbanization-induced population migration has reduced ambient PM <sub>2.5</sub> concentrations in China. <i>Science Advances</i> , 2017, 3, e1700300.	10.3	161
14	Changing climate affects vegetation growth in the arid region of the northwestern China. <i>Journal of Arid Environments</i> , 2011, 75, 946-952.	2.4	142
15	Genetics of Chromosomally Mediated Intermediate Resistance to Ceftriaxone and Cefixime in <i>Neisseria gonorrhoeae</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 3744-3751.	3.2	139
16	Altitudinal changes in carbon storage of temperate forests on Mt Changbai, Northeast China. <i>Journal of Plant Research</i> , 2010, 123, 439-452.	2.4	138
17	Simulating the impacts of disturbances on forest carbon cycling in North America: Processes, data, models, and challenges. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	129
18	Rates and patterns of urban expansion in China's 32 major cities over the past three decades. <i>Landscape Ecology</i> , 2015, 30, 1541-1559.	4.2	121

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19	Urban land expansion in China's six megacities from 1978 to 2015. <i>Science of the Total Environment</i> , 2019, 664, 60-71.	8.0	116
20	Spatiotemporal dynamics of urban expansion in 13 cities across the Jing-Jin-Ji Urban Agglomeration from 1978 to 2015. <i>Ecological Indicators</i> , 2018, 87, 302-313.	6.3	107
21	Changes in China's lakes: climate and human impacts. <i>National Science Review</i> , 2020, 7, 132-140.	9.5	104
22	Quantifying the response of forest carbon balance to future climate change in Northeastern China: Model validation and prediction. <i>Global and Planetary Change</i> , 2009, 66, 179-194.	3.5	103
23	Spatiotemporal trends of terrestrial vegetation activity along the urban development intensity gradient in China's 32 major cities. <i>Science of the Total Environment</i> , 2014, 488-489, 136-145.	8.0	95
24	Spatial and Temporal Dimensions of Urban Expansion in China. <i>Environmental Science &amp; Technology</i> , 2015, 49, 9600-9609.	10.0	87
25	Valuing urban green spaces in mitigating climate change: A city-wide estimate of aboveground carbon stored in urban green spaces of China's Capital. <i>Global Change Biology</i> , 2019, 25, 1717-1732.	9.5	83
26	The 7-Decade Degradation of a Large Freshwater Lake in Central Yangtze River, China. <i>Environmental Science &amp; Technology</i> , 2005, 39, 431-436.	10.0	81
27	A meta-analysis on the impacts of partial cutting on forest structure and carbon storage. <i>Biogeosciences</i> , 2013, 10, 3691-3703.	3.3	79
28	Ecological civilization: perspectives from landscape ecology and landscape sustainability science. <i>Landscape Ecology</i> , 2019, 34, 1-8.	4.2	76
29	Comparing the spatial and temporal dynamics of urban expansion in Guangzhou and Shenzhen from 1975 to 2015: A case study of pioneer cities in China's rapid urbanization. <i>Land Use Policy</i> , 2020, 97, 104753.	5.6	69
30	Vegetation growth enhancement in urban environments of the Conterminous United States. <i>Global Change Biology</i> , 2018, 24, 4084-4094.	9.5	63
31	Human-induced long-term changes in the lakes of the Jiangnan Plain, Central Yangtze. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 186-192.	4.0	62
32	Quantifying spatiotemporal patterns of urban expansion in three capital cities in Northeast China over the past three decades using satellite data sets. <i>Environmental Earth Sciences</i> , 2015, 73, 7221-7235.	2.7	61
33	Urbanization imprint on land surface phenology: The urban-rural gradient analysis for Chinese cities. <i>Global Change Biology</i> , 2021, 27, 2895-2904.	9.5	51
34	Land use and carbon dynamics in the southeastern United States from 1992 to 2050. <i>Environmental Research Letters</i> , 2013, 8, 044022.	5.2	47
35	Trends and drivers of land surface temperature along the urban-rural gradients in the largest urban agglomeration of China. <i>Science of the Total Environment</i> , 2020, 711, 134579.	8.0	46
36	Patterns of fish species richness in China's lakes. <i>Global Ecology and Biogeography</i> , 2006, 15, 386-394.	5.8	44

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37	Carbon Storage and Sequestration of Urban Street Trees in Beijing, China. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	43
38	Differentiating moss from higher plants is critical in studying the carbon cycle of the boreal biome. <i>Nature Communications</i> , 2014, 5, 4270.	12.8	42
39	Contemporary evolution and scaling of 32 major cities in China. <i>Ecological Applications</i> , 2018, 28, 1655-1668.	3.8	39
40	Data concurrency is required for estimating urban heat island intensity. <i>Environmental Pollution</i> , 2016, 208, 118-124.	7.5	37
41	Organic Carbon Storage in China's Urban Areas. <i>PLoS ONE</i> , 2013, 8, e71975.	2.5	36
42	Land-cover changes in an urban lake watershed in a mega-city, Central China. <i>Environmental Monitoring and Assessment</i> , 2006, 115, 349-359.	2.7	35
43	Impact of Impoldering and Lake Restoration on Land-cover Changes in Dongting Lake Area, Central Yangtze. <i>Ambio</i> , 2004, 33, 311-315.	5.5	34
44	Are soils of Iowa USA currently a carbon sink or source? Simulated changes in SOC stock from 1972 to 2007. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 106-112.	5.3	32
45	A comparative study of spatiotemporal patterns of urban expansion in six major cities of the Yangtze River Delta from 1980 to 2015. <i>Ecosystem Health and Sustainability</i> , 2018, 4, 95-114.	3.1	29
46	Influence of landscape features on urban land surface temperature: Scale and neighborhood effects. <i>Science of the Total Environment</i> , 2021, 771, 145381.	8.0	28
47	The Cooling Effect of Urban Green Spaces in Metacities: A Case Study of Beijing, China's Capital. <i>Remote Sensing</i> , 2021, 13, 4601.	4.0	28
48	Lake restoration from impoldering: impact of land conversion on riparian landscape in Honghu Lake area, Central Yangtze. <i>Agriculture, Ecosystems and Environment</i> , 2003, 95, 111-118.	5.3	27
49	Spatiotemporal patterns of urbanization over the past three decades: a comparison between two large cities in Southwest China. <i>Urban Ecosystems</i> , 2014, 17, 723-739.	2.4	27
50	Composition, structure and species diversity of plant communities along an altitudinal gradient on the northern slope of Mt. Changbai, Northeast China. <i>Biodiversity Science</i> , 2004, 12, 164-173.	0.6	27
51	The Changes in China's Forests: An Analysis Using the Forest Identity. <i>PLoS ONE</i> , 2011, 6, e20778.	2.5	25
52	Relationships between species richness of vascular plants and terrestrial vertebrates in China: analyses based on data of nature reserves. <i>Diversity and Distributions</i> , 2006, 12, 189-194.	4.1	24
53	Patterns of species richness for vascular plants in China's nature reserves. <i>Diversity and Distributions</i> , 2006, 12, 364-372.	4.1	24
54	Grand Challenges in Understanding the Interplay of Climate and Land Changes. <i>Earth Interactions</i> , 2017, 21, 1-43.	1.5	24

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55	Urban vertical profiles of three most urbanized Chinese cities and the spatial coupling with horizontal urban expansion. <i>Land Use Policy</i> , 2022, 113, 105919.	5.6	24
56	A building height dataset across China in 2017 estimated by the spatially-informed approach. <i>Scientific Data</i> , 2022, 9, 76.	5.3	24
57	Drivers of urban expansion over the past three decades: a comparative study of Beijing, Tianjin, and Shijiazhuang. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 34.	2.7	20
58	Ignoring detailed fast-changing dynamics of land use overestimates regional terrestrial carbon sequestration. <i>Biogeosciences</i> , 2009, 6, 1647-1654.	3.3	18
59	Forest cutting and impacts on carbon in the eastern United States. <i>Scientific Reports</i> , 2013, 3, 3547.	3.3	18
60	Spatial scaling of multiple landscape features in the conterminous United States. <i>Landscape Ecology</i> , 2020, 35, 223-247.	4.2	18
61	The relationships between terrestrial vertebrate species richness in China's nature reserves and environmental variables. <i>Canadian Journal of Zoology</i> , 2006, 84, 1368-1374.	1.0	17
62	Quantifying Terrestrial Ecosystem Carbon Dynamics in the Jinsha Watershed, Upper Yangtze, China from 1975 to 2000. <i>Environmental Management</i> , 2010, 45, 466-475.	2.7	17
63	A spatial resolution threshold of land cover in estimating terrestrial carbon sequestration in four counties in Georgia and Alabama, USA. <i>Biogeosciences</i> , 2010, 7, 71-80.	3.3	16
64	Leaf litter decomposition in urban forests: test of the home-field advantage hypothesis. <i>Annals of Forest Science</i> , 2016, 73, 1063-1072.	2.0	16
65	Geographic patterns and environmental correlates of terrestrial mammal species richness in China. <i>Biodiversity Science</i> , 2009, 17, 652.	0.6	16
66	Federal Land Management, Carbon Sequestration, and Climate Change in the Southeastern U.S.: A Case Study with Fort Benning. <i>Environmental Science &amp; Technology</i> , 2010, 44, 992-997.	10.0	15
67	Scale criticality in estimating ecosystem carbon dynamics. <i>Global Change Biology</i> , 2014, 20, 2240-2251.	9.5	15
68	Modeling the effects of the Sloping Land Conversion Program on terrestrial ecosystem carbon dynamics in the Loess Plateau: A case study with Ansai County, Shaanxi province, China. <i>Ecological Modelling</i> , 2014, 288, 47-54.	2.5	15
69	Disturbance of Dabao highway construction on plant species and soil nutrients in Longitudinal Range Gorge Region (LRGR) of Southwestern China. <i>Environmental Monitoring and Assessment</i> , 2009, 158, 545-559.	2.7	14
70	Comparing the Spatiotemporal Dynamics of Urbanization in Moderately Developed Chinese Cities over the Past Three Decades: Case of Nanjing and Xi'an. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2015, 141, .	1.7	14
71	Increasing soil carbon stocks in eight permanent forest plots in China. <i>Biogeosciences</i> , 2020, 17, 715-726.	3.3	12
72	Urban growth rates, trajectories, and multi-dimensional disparities in China. <i>Cities</i> , 2022, 126, 103717.	5.6	12

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73	1/4 to 1/3 of observed warming trends in China from 1980 to 2015 are attributed to land use changes. <i>Climatic Change</i> , 2021, 164, 1.	3.6	11
74	Perturbation of Urbanization to Earth's Surface Energy Balance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033521.	3.3	11
75	Lhx8 promote differentiation of hippocampal neural stem/progenitor cells into cholinergic neurons in vitro. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2012, 48, 603-609.	1.5	10
76	Organic carbon storage change in China's urban landfills from 1978 to 2014. <i>Environmental Research Letters</i> , 2017, 12, 104013.	5.2	8
77	Urbanization-induced environmental changes strongly affect wetland soil bacterial community composition and diversity. <i>Environmental Research Letters</i> , 2022, 17, 014027.	5.2	8
78	A global analysis of urbanization effects on amphibian richness: Patterns and drivers. <i>Global Environmental Change</i> , 2022, 73, 102476.	7.8	7
79	Contemporary Urban Expansion in the First Fastest Growing Metropolitan Region of China: A Multicity Study in the Pearl River Delta Urban Agglomeration from 1980 to 2015. <i>Urban Science</i> , 2021, 5, 11.	2.3	6
80	Urbanization effects on Chinese mammal and amphibian richness: a multi-scale study using the urban-rural gradient approach. <i>Environmental Research Communications</i> , 2020, 2, 125002.	2.3	4
81	Discover the desirable landscape structure for mitigating urban heat: The urban-rural gradient approach for an ancient Chinese city. <i>Cities</i> , 2022, 127, 103737.	5.6	4
82	Ecological consequences of rapid urban expansion: Shanghai, China. , 2006, 4, 341.		2
83	Synchronization, Decoupling, and Regime Shift of Urban Thermal Conditions in Xi'an, an Ancient City in China under Rapid Expansion. <i>Remote Sensing</i> , 2022, 14, 2586.	4.0	2
84	Conservation: A New Open Access Journal for Rapid Dissemination of the Transdisciplinary Dimensions of Biodiversity Conservation. <i>Conservation</i> , 2021, 1, 17-20.	1.7	1
85	Biodiversity changes in the lakes of the Central Yangtze. , 2006, 4, 369.		1
86	Biodiversity changes in the lakes of the Central Yangtze. , 2006, 4, 369.		1
87	Quantifying Terrestrial Ecosystem Carbon Dynamics in the Upper Yangtze Basin from 1975 to 2000. , 2009, , 99-112.		0