

A large but transient carbon sink from urbanization and

Nature Sustainability

5, 321-328

DOI: [10.1038/s41893-021-00843-y](https://doi.org/10.1038/s41893-021-00843-y)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Efficiency of Forest Management Investment in Key State-Owned Forest Regions under the Carbon Neutral Target: A Case Study of Heilongjiang Province, China. <i>Forests</i> , 2022, 13, 609.	2.1	6
2	Soil organic carbon changes in city areas of China over the past three decades: Implications for achieving carbon neutrality. <i>Engineering</i> , 2022, , .	6.7	0
3	Applying C:N ratio to assess the rationality of estimates of carbon sequestration in terrestrial ecosystems and nitrogen budgets. , 2022, 1, .		11
4	Spatiotemporal pattern of regional carbon emissions and its influencing factors in the Yangtze River Delta urban agglomeration of China. <i>Environmental Monitoring and Assessment</i> , 2022, 194, .	2.7	13
5	Estimating the Decoupling between Net Carbon Emissions and Construction Land and Its Driving Factors: Evidence from Shandong Province, China. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 8910.	2.6	7
6	China's carbon neutrality: an extensive and profound systemic reform. <i>Frontiers of Environmental Science and Engineering</i> , 2023, 17, .	6.0	11
7	Carbon sinks/sources' spatiotemporal evolution in China and its response to built-up land expansion. <i>Journal of Environmental Management</i> , 2022, 321, 115863.	7.8	21
8	The impact of the circular economy on sustainable development: A European panel data approach. <i>Sustainable Production and Consumption</i> , 2022, 34, 233-243.	11.0	29
9	Ecological risk changes and their relationship with exposed surface fraction in the karst region of southern China from 1990 to 2020. <i>Journal of Environmental Management</i> , 2022, 323, 116206.	7.8	11
10	Universal Broadband Assessment of Low Earth Orbit Satellite Constellations: Evaluating Capacity, Coverage, Cost, and Environmental Emissions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
11	The Interaction and Its Evolution of the Urban Agricultural Multifunctionality and Carbon Effects in Guangzhou, China. <i>Land</i> , 2022, 11, 1413.	2.9	1
12	The Influence of Urbanization to the Outer Boundary Ecological Environment Using Remote Sensing and GIS Techniques—A Case of the Greater Bay Area. <i>Land</i> , 2022, 11, 1426.	2.9	3
13	Drivers for decoupling carbon footprint pressure from economic growth in China's provinces. <i>Geography and Sustainability</i> , 2022, 3, 258-267.	4.3	9
14	Characteristics and Influencing Factors of Traditional Village Distribution in China. <i>Land</i> , 2022, 11, 1631.	2.9	13
15	Changing rural livelihood activities may reduce the effectiveness of ecological restoration projects. <i>Land Degradation and Development</i> , 2023, 34, 362-376.	3.9	4
16	The Regional Disparity of Urban Spatial Expansion Is Greater than That of Urban Socioeconomic Expansion in China: A New Perspective from Nighttime Light Remotely Sensed Data and Urban Land Datasets. <i>Remote Sensing</i> , 2022, 14, 4348.	4.0	8
17	Sacred groves of Central India: Diversity status, carbon storage, and conservation strategies. <i>Biotropica</i> , 2022, 54, 1400-1411.	1.6	1
18	A Comparative Analysis of Farmland Occupation by Urban Sprawl and Rural Settlement Expansion in China. <i>Land</i> , 2022, 11, 1738.	2.9	5

#	ARTICLE	IF	CITATIONS
19	The Impact of Urbanization on the Relationship between Carbon Storage Supply and Demand in Mega-Urban Agglomerations and Response Measures: A Case of Yangtze River Delta Region, China. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 13768.	2.6	2
20	Spatiotemporal Changes in Leaf Area and Carbon Sequestration of Terrestrial Vegetation in China over the Last Two Decades. <i>Forests</i> , 2022, 13, 1623.	2.1	4
21	Carbon Sink Performance Evaluation and Socioeconomic Effect of Urban Aggregated Green Infrastructure Based on Sentinel-2A Satellite. <i>Forests</i> , 2022, 13, 1661.	2.1	2
22	Spatial Driven Effects of Multi-Dimensional Urbanization on Carbon Emissions: A Case Study in Chengdu-Chongqing Urban Agglomeration. <i>Land</i> , 2022, 11, 1858.	2.9	8
23	Impact of the Management Scale on the Technical Efficiency of Forest Vegetation Carbon Sequestration: A Case Study of State-Owned Forestry Enterprises in Northeast China. <i>Remote Sensing</i> , 2022, 14, 5528.	4.0	0
24	Future climate imposes pressure on vulnerable ecological regions in China. <i>Science of the Total Environment</i> , 2023, 858, 159995.	8.0	7
25	Gender differences in association of urbanization with psychological stress in Chinese adults: A population-based study. <i>Frontiers in Public Health</i> , 0, 10, .	2.7	0
26	Investigating the Impacts of Urbanization on Vegetation Net Primary Productivity: A Case Study of Chengdu-Chongqing Urban Agglomeration from the Perspective of Townships. <i>Land</i> , 2022, 11, 2077.	2.9	3
27	Incorporating circuit theory, complex networks, and carbon offsets into the multi-objective optimization of ecological networks: A case study on karst regions in China. <i>Journal of Cleaner Production</i> , 2023, 383, 135512.	9.3	20
28	Carbon saving potential of urban parks due to heat mitigation in Yangtze River Economic Belt. <i>Journal of Cleaner Production</i> , 2023, 385, 135713.	9.3	7
29	How does urbanization affect energy carbon emissions under the background of carbon neutrality?. <i>Journal of Environmental Management</i> , 2023, 327, 116878.	7.8	19
30	Data-driven discoveries on widespread contamination of freshwater reservoirs by dominant antibiotic resistance genes. <i>Water Research</i> , 2023, 229, 119466.	11.3	1
31	Status, Trend, and Prospect of Global Farmland Abandonment Research: A Bibliometric Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 16007.	2.6	4
32	Quantifying the Ecological Effectiveness of Poverty Alleviation Relocation in Karst Areas. <i>Remote Sensing</i> , 2022, 14, 5920.	4.0	4
33	Changes in PM2.5-related health burden in China's poverty and non-poverty areas during 2000-2020: A health inequality perspective. <i>Science of the Total Environment</i> , 2023, 861, 160517.	8.0	7
34	Effect of cropland withdrawal on soil organic carbon in China, 1990-2018. <i>Land Degradation and Development</i> , 0, , .	3.9	0
35	DAS: Efficient Street View Image Sampling For Urban Prediction. <i>ACM Transactions on Intelligent Systems and Technology</i> , 0, , .	4.5	0
36	Rural outmigration generates a carbon sink in South China karst. <i>Progress in Physical Geography</i> , 2023, 47, 655-667.	3.2	2

#	ARTICLE	IF	CITATIONS
37	The effects of urban land use on energy-related CO2 emissions in China. <i>Science of the Total Environment</i> , 2023, 870, 161873.	8.0	9
38	Urban-rural disparities of carbon storage dynamics in China's human settlements driven by population and economic growth. <i>Science of the Total Environment</i> , 2023, 871, 162092.	8.0	6
39	Population density regulation may mitigate the imbalance between anthropogenic carbon emissions and vegetation carbon sequestration. <i>Sustainable Cities and Society</i> , 2023, 92, 104502.	10.4	9
40	Multi-scenario simulation of land use and land cover based on shared socioeconomic pathways: The case of coastal special economic zones in China. <i>Journal of Environmental Management</i> , 2023, 335, 117536.	7.8	6
41	Effects of distribution patterns of karst landscapes on runoff and sediment yield in karst watersheds. <i>Catena</i> , 2023, 223, 106947.	5.0	6
42	Soil and vegetation water content identify the main terrestrial ecosystem changes. <i>National Science Review</i> , 2023, 10, .	9.5	4
43	Conflict or Coordination? measuring the relationships between urbanization and vegetation cover in China. <i>Ecological Indicators</i> , 2023, 147, 109993.	6.3	31
44	Impact of ecological restoration on ecosystem service trade-offs: Insight from karst desertification control. <i>Land Degradation and Development</i> , 2023, 34, 2693-2706.	3.9	8
45	Quantitative structure and spatial pattern optimization of urban green space from the perspective of carbon balance: A case study in Beijing, China. <i>Ecological Indicators</i> , 2023, 148, 110034.	6.3	11
47	Ecological restoration for sustainable development in China. <i>National Science Review</i> , 2023, 10, .	9.5	38
48	Changed ecosystem stability in response to climate anomalies in the context of ecological restoration projects. <i>Land Degradation and Development</i> , 2023, 34, 3003-3016.	3.9	3
49	Spatiotemporal variation of the ecosystem service value in China based on surface area. <i>Ecological Indicators</i> , 2023, 148, 110067.	6.3	2
50	Differentiated effects of morphological and functional polycentric urban spatial structure on carbon emissions in China: an empirical analysis from remotely sensed nighttime light approach. <i>International Journal of Digital Earth</i> , 2023, 16, 532-551.	3.9	8
51	Urbanization, Human Inequality, and Material Consumption. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 4582.	2.6	3
53	China's Biogas Industry's Sustainable Transition to a Low-Carbon Plan—A Socio-Technical Perspective. <i>Sustainability</i> , 2023, 15, 5299.	3.2	6
54	High-resolution carbon neutrality mapping and a heterogeneity analysis for China's two typical megalopolises. <i>Urban Climate</i> , 2023, 49, 101488.	5.7	1
55	A new approach to assessing natural capital consumption inequities from a nonlinear perspective. <i>Journal of Cleaner Production</i> , 2023, , 136957.	9.3	1
56	A Review of Social Ecological System Research and Geographical Applications. <i>Sustainability</i> , 2023, 15, 6930.	3.2	7

#	ARTICLE	IF	CITATIONS
57	Effects of Land Cover Change on Vegetation Carbon Source/Sink in Arid Terrestrial Ecosystems of Northwest China, 2001–2018. <i>Remote Sensing</i> , 2023, 15, 2471.	4.0	2
58	Vegetation growth enhancement modulated by urban development status. <i>Science of the Total Environment</i> , 2023, 883, 163626.	8.0	6
59	Trend and spatial pattern of stable cropland productivity in China based on satellite observations (2001–2020). <i>Environmental Impact Assessment Review</i> , 2023, 101, 107136.	9.2	3
60	Detection of spatiotemporal changes in ecological quality in the Chinese mainland: Trends and attributes. <i>Science of the Total Environment</i> , 2023, 884, 163791.	8.0	4
61	A new type of urbanization policy and transition of low-carbon society: A "local-neighborhood" perspective. <i>Land Use Policy</i> , 2023, 131, 106709.	5.6	6
62	Spatial Coupling of Carbon Sink Capacity with High-Quality Development Based on Exploitation and Protection Pattern. <i>Sustainability</i> , 2023, 15, 8108.	3.2	0
63	Impact of wetland change on ecosystem services in different urbanization stages: A case study in the Hang-Jia-Hu region, China. <i>Ecological Indicators</i> , 2023, 153, 110382.	6.3	3
64	Balancing the Effects of Forest Conservation and Restoration on South China Karst Greening. <i>Earth's Future</i> , 2023, 11, .	6.3	2
66	Diverse types of coupling trends in urban tree and nontree vegetation associated with urbanization levels. <i>Npj Urban Sustainability</i> , 2023, 3, .	8.0	4
67	Analyzing carbon source-sink nexus for green and sustainable transition at the local scale. <i>Water-Energy Nexus</i> , 2023, 6, 6-12.	4.0	2
68	Valuing the coordinated development of urbanization and ecosystem service value in border counties. <i>Journal of Cleaner Production</i> , 2023, 415, 137799.	9.3	5
69	Significant urban hotspots of atmospheric trace element deposition and potential effects on urban soil pollution in China. <i>Journal of Cleaner Production</i> , 2023, 415, 137872.	9.3	6
70	Optimal pathway to urban carbon neutrality based on scenario simulation: A case study of Shanghai, China. <i>Journal of Cleaner Production</i> , 2023, 416, 137901.	9.3	3
71	Contribution of vegetation restoration to carbon sequestration driven by ex-situ poverty alleviation and relocation in ecologically fragile areas—Taking Guizhou, China, as a case. <i>Land Degradation and Development</i> , 2023, 34, 3905-3919.	3.9	2
72	The response of geographical processes to landscape restoration: China's research progress. <i>Progress in Physical Geography</i> , 2023, 47, 792-807.	3.2	2
73	A Chinese soil conservation dataset preventing soil water erosion from 1992 to 2019. <i>Scientific Data</i> , 2023, 10, .	5.3	5
74	Effects of cropland reclamation on soil organic carbon in China's black soil region over the past 35 years. <i>Global Change Biology</i> , 2023, 29, 5460-5477.	9.5	11
75	Multi-Scale Analysis of PM _{2.5} Concentrations in the Yangtze River Economic Belt: Investigating the Combined Impact of Natural and Human Factors. <i>Remote Sensing</i> , 2023, 15, 3356.	4.0	0

#	ARTICLE	IF	CITATIONS
76	The relationship evolution between urbanization and urban ecological resilience in the Northern Slope Economic Belt of Tianshan Mountains, China. <i>Sustainable Cities and Society</i> , 2023, 97, 104783.	10.4	3
77	Telecoupling indirect ecological impacts of urban expansion in China from the perspective of the food trade. <i>Land Degradation and Development</i> , 2023, 34, 4964-4976.	3.9	1
78	Remote estimation of soil organic carbon under different land use types in agroecosystems of Eastern China. <i>Catena</i> , 2023, 231, 107369.	5.0	3
79	Reforestation policies around 2000 in southern China led to forest densification and expansion in the 2010s. <i>Communications Earth & Environment</i> , 2023, 4, .	6.8	0
80	Unveiling the driver behind China's greening trend: urban vs. rural areas. <i>Environmental Research Letters</i> , 2023, 18, 084027.	5.2	0
82	Spatio-Temporal Evolution and Influencing Factors of Integrated Urban-Rural Development in Northeast China under the Background of Population Shrinkage. <i>Buildings</i> , 2023, 13, 2173.	3.1	0
83	Classification of Urban Agricultural Functional Regions and Their Carbon Effects at the County Level in the Pearl River Delta, China. <i>Agriculture (Switzerland)</i> , 2023, 13, 1734.	3.1	1
84	Bibliometric Analysis of Spatial Technology for World Heritage: Application, Trend and Potential Paths. <i>Remote Sensing</i> , 2023, 15, 4695.	4.0	1
85	Evaluation of Spatiotemporal Changes in Cropland Quantity and Quality with Multi-Source Remote Sensing. <i>Land</i> , 2023, 12, 1764.	2.9	0
86	Improved human greenspace exposure equality during 21st century urbanization. <i>Nature Communications</i> , 2023, 14, .	12.8	10
87	The imprint of urbanization on vegetation in the ecologically fragile area: A case study from China's Loess Plateau. <i>Ecological Indicators</i> , 2023, 154, 110791.	6.3	4
88	A Global Feature-Rich Network Dataset of Cities and Dashboard for Comprehensive Urban Analyses. <i>Scientific Data</i> , 2023, 10, .	5.3	0
89	Modeling the Effects of Drivers on PM2.5 in the Yangtze River Delta with Geographically Weighted Random Forest. <i>Remote Sensing</i> , 2023, 15, 3826.	4.0	0
90	DUAL PERSPECTIVE DIAGNOSIS ON LOW CARBON CITY PERFORMANCE. <i>Journal of Green Building</i> , 2023, 18, 167-184.	0.8	0
91	The evolution of China's rural depopulation pattern and its influencing factors from 2000 to 2020. <i>Applied Geography</i> , 2023, 159, 103089.	3.7	1
92	Do carbon sequestration and food security in urban and rural landscapes differ in patterns, relationships, and responses?. <i>Applied Geography</i> , 2023, 160, 103100.	3.7	0
93	Spatial-temporal patterns of urban expansion by land use/ land cover transfer in China. <i>Ecological Indicators</i> , 2023, 155, 111009.	6.3	4
94	Background Characteristics and Influence Analysis of Greenhouse Gases at Jinsha Atmospheric Background Station in China. <i>Atmosphere</i> , 2023, 14, 1541.	2.3	0

#	ARTICLE	IF	CITATIONS
95	Climate and human impact together drive changes in ecosystem multifunctionality in the drylands of China. <i>Applied Soil Ecology</i> , 2024, 193, 105163.	4.3	3
96	Optimization and Simulation of Mountain City Land Use Based on MOP-PLUS Model: A Case Study of Caijia Cluster, Chongqing. <i>ISPRS International Journal of Geo-Information</i> , 2023, 12, 451.	2.9	0
97	Understanding the indirect impacts of urbanization on vegetation growth using the Continuum of Urbanity framework. <i>Science of the Total Environment</i> , 2023, 899, 165693.	8.0	0
98	Optimizing land use patterns to improve the contribution of land use planning to carbon neutrality target. <i>Land Use Policy</i> , 2023, 135, 106959.	5.6	3
99	Multi-scale spatiotemporal trends and corresponding disparities of PM2.5 exposure in China. <i>Environmental Pollution</i> , 2024, 340, 122857.	7.5	1
100	Impact of urbanization on net carbon sink efficiency in economically developed area: A case study of the Yangtze River Delta urban agglomeration, China. <i>Ecological Indicators</i> , 2023, 157, 111211.	6.3	0
101	Abandoned cropland compensates the decrease in net ecosystem productivity of impervious surface expansion in China. <i>Environmental Impact Assessment Review</i> , 2024, 104, 107363.	9.2	0
102	China's forestation on marginal land was less efficient in carbon sequestration compared with non-marginal land. <i>One Earth</i> , 2023, 6, 1692-1702.	6.8	0
103	Intra-annual carbon fluxes and resource use efficiency of subtropical urban forests: insights from Chongming Island ecological observatory. <i>Frontiers in Forests and Global Change</i> , 0, 6, .	2.3	0
104	Global inequities in population exposure to urban greenspaces increased amidst tree and nontree vegetation cover expansion. <i>Communications Earth & Environment</i> , 2023, 4, .	6.8	0
105	Spatial mismatch and the attribution analysis of carbon storage demand and supply in the Yangtze River Economic Belt, China. <i>Journal of Cleaner Production</i> , 2024, 434, 140036.	9.3	1
106	Spatial patterns and predictors of seed plants' extinction risks in Asian countries. <i>Biological Conservation</i> , 2024, 289, 110424.	4.1	0
107	Industrial characteristics and drivers of urban carbon cycle: From an analysis of typical cities in China. <i>Ecological Indicators</i> , 2024, 158, 111463.	6.3	1
108	Decoding China's anthropogenic typical pollutant discharge patterns: Long-term dynamics and hotspot transitions driven by population, diet, and sanitation. <i>Water Research</i> , 2024, 250, 121049.	11.3	0
109	Geo-climates and street developments shape urban tree characteristics: A street-view inventory analysis of over 200,000 trees of 11 metropolises in China. <i>Science of the Total Environment</i> , 2023, , 169503.	8.0	0
110	Patterns and drivers of carbon stock change in ecological restoration regions: A case study of upper Yangtze River Basin, China. <i>Journal of Environmental Management</i> , 2023, 348, 119376.	7.8	1
112	Scenario Analysis of Carbon Emission Changes Resulting from a Rural Residential Land Decrement Strategy: A Case Study in China. <i>Land</i> , 2024, 13, 51.	2.9	0
113	The spatiotemporal patterns and climate impacts of the carbon dynamics in economically developed areas of China during the past 40 years: A case of Jiangsu Province. <i>Journal of Cleaner Production</i> , 2024, 435, 140567.	9.3	1

#	ARTICLE	IF	CITATIONS
114	Response of vegetation carbon sequestration potential to the effectiveness of vegetation restoration in karst ecologically fragile areas in Guizhou, southwest China. <i>Ecological Indicators</i> , 2024, 158, 111495.	6.3	0
115	Urban Core Greening Balances Browning in Urban Expansion Areas in China during Recent Decades. <i>Journal of Remote Sensing</i> , 2024, 4, .	6.7	0
116	Deciphering the evolving trajectories of China's megaregions from 1992 to 2020: A novel morphological approach based on global land cover products. <i>Applied Geography</i> , 2024, 164, 103205.	3.7	0
117	Exploring social-ecological system resilience in South China Karst: Quantification, interaction and policy implication. <i>Geography and Sustainability</i> , 2024, 5, 289-301.	4.3	0
118	Demographic shrinkage promotes ecosystem services supply capacity in the karst desertification control. <i>Science of the Total Environment</i> , 2024, 917, 170427.	8.0	0
119	Assessing the impacts of rural depopulation and urbanization on vegetation cover: Based on land use and nighttime light data in China, 2000–2020. <i>Ecological Indicators</i> , 2024, 159, 111639.	6.3	0
120	The Dynamics and Potential of Carbon Stocks as an Indicator of Sustainable Development for Forest Bioeconomy in Ghana. <i>Forests</i> , 2024, 15, 256.	2.1	0
121	The spatial and temporal characteristics of urban public safety under the residents' complaints: Evidence from 12345 data in Beijing, China. <i>Journal of Urban Management</i> , 2024, , .	4.5	0
122	Quantifying the extent of ecological impact from China's poverty alleviation relocation program: A case study in Guizhou Province. <i>Journal of Cleaner Production</i> , 2024, 444, 141274.	9.3	0
123	Prevalent underestimation of tree cooling efficiency attributed to urban intrinsic heterogeneity. <i>Sustainable Cities and Society</i> , 2024, 103, 105277.	10.4	0
124	Understanding habitat isolation in the context of construction land expansion using an ecological network approach. <i>Landscape Ecology</i> , 2024, 39, .	4.2	0
125	Assessing progress toward China's subnational sustainable development by Region Sustainable Development Index. , 2024, 11, 100099.		0
126	Quantifying the environmental synergistic effect of cooling-air purification-carbon sequestration from urban forest in China. <i>Journal of Cleaner Production</i> , 2024, 448, 141514.	9.3	0
127	Efficient osmosis-powered production of green hydrogen. <i>Nature Sustainability</i> , 0, , .	23.7	0
128	Spatio-temporal interaction and constraint effects between ecosystem services and human activity intensity in Shaanxi Province,China. <i>Ecological Indicators</i> , 2024, 160, 111937.	6.3	0
129	Abandoned cropland mapping and its influencing factors analysis: A case study in the Beijing-Tianjin-Hebei region. <i>Catena</i> , 2024, 239, 107876.	5.0	0
130	Multi-driving paths for the coupling coordinated development of agricultural carbon emission reduction and sequestration and food security: A configurational analysis based on dynamic fsQCA. <i>Ecological Indicators</i> , 2024, 160, 111875.	6.3	0