Decheng Zhou

List of Publications by Year
in descending order

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43 papers	3,623 citations	201674 27 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	3275 citing authors

#	Article	IF	Citations
1	Surface urban heat island in China's 32 major cities: Spatial patterns and drivers. Remote Sensing of Environment, 2014, 152, 51-61.	11.0	569
2	Satellite Remote Sensing of Surface Urban Heat Islands: Progress, Challenges, and Perspectives. Remote Sensing, 2019, 11, 48.	4.0	464
3	The footprint of urban heat island effect in China. Scientific Reports, 2015, 5, 11160.	3.3	248
4	Prevalent vegetation growth enhancement in urban environment. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6313-6318.	7.1	229
5	Remotely sensed assessment of urbanization effects on vegetation phenology in China's 32 major cities. Remote Sensing of Environment, 2016, 176, 272-281.	11.0	197
6	The Grain for Green Project induced land cover change in the Loess Plateau: A case study with Ansai County, Shanxi Province, China. Ecological Indicators, 2012, 23, 88-94.	6.3	180
7	Remote sensing of the urban heat island effect in a highly populated urban agglomeration area in East China. Science of the Total Environment, 2018, 628-629, 415-429.	8.0	158
8	Spatiotemporal trends of urban heat island effect along the urban development intensity gradient in China. Science of the Total Environment, 2016, 544, 617-626.	8.0	147
9	Rates and patterns of urban expansion in Chinaâ€™s 32 major cities over the past three decades. Landscape Ecology, 2015, 30, 1541-1559.	4.2	121
10	Climateâ€“vegetation control on the diurnal and seasonal variations of surface urban heat islands in China. Environmental Research Letters, 2016, 11, 074009.	5.2	120
11	A meta-analysis of the canopy light extinction coefficient in terrestrial ecosystems. Frontiers of Earth Science, 2014, 8, 599-609.	2.1	96
12	Spatiotemporal trends of terrestrial vegetation activity along the urban development intensity gradient in China's 32 major cities. Science of the Total Environment, 2014, 488-489, 136-145.	8.0	95
13	Spatial and Temporal Dimensions of Urban Expansion in China. Environmental Science & Technology, 2015, 49, 9600-9609.	10.0	87
14	A meta-analysis on the impacts of partial cutting on forest structure and carbon storage. Biogeosciences, 2013, 10, 3691-3703.	3.3	79
15	Comparison of four light use efficiency models for estimating terrestrial gross primary production. Ecological Modelling, 2015, 300, 30-39.	2.5	73
16	Moderate grazing can promote aboveground primary production of grassland under water stress. Ecological Complexity, 2012, 11, 126-136.	2.9	72
17	Evolution of light use efficiency models: Improvement, uncertainties, and implications. Agricultural and Forest Meteorology, 2022, 317, 108905.	4.8	62
18	Quantifying the effects of overgrazing on mountainous watershed vegetation dynamics under a changing climate. Science of the Total Environment, 2018, 639, 1408-1420.	8.0	53

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19	Contrasting effects of urbanization and agriculture on surface temperature in eastern China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9597-9606.	3.3	49
20	Ecological Protection and Restoration Program Reduced Grazing Pressure in the Three-River Headwaters Region, China. Rangeland Ecology and Management, 2017, 70, 540-548.	2.3	46
21	Effects of land use change on landscape pattern of the Manas River watershed in Xinjiang, China. Environmental Earth Sciences, 2011, 64, 2067-2077.	2.7	41
22	Data concurrency is required for estimating urban heat island intensity. Environmental Pollution, 2016, 208, 118-124.	7.5	37
23	Organic Carbon Storage in China's Urban Areas. PLoS ONE, 2013, 8, e71975.	2.5	36
24	Exploring diurnal cycles of surface urban heat island intensity in Boston with land surface temperature data derived from GOES-R geostationary satellites. Science of the Total Environment, 2021, 763, 144224.	8.0	36
25	Croplands intensify regional and global warming according to satellite observations. Remote Sensing of Environment, 2021, 264, 112585.	11.0	36
26	Combined effects of climate and land management on watershed vegetation dynamics in an arid environment. Science of the Total Environment, 2017, 589, 73-88.	8.0	31
27	Urbanization Contributes Little to Global Warming but Substantially Intensifies Local and Regional Land Surface Warming. Earth's Future, 2022, 10, .	6.3	30
28	Contrasting the Performance of Eight Satellite-Based GPP Models in Water-Limited and Temperature-Limited Grassland Ecosystems. Remote Sensing, 2019, 11, 1333.	4.0	25
29	Potential impacts of climate change on vegetation dynamics and ecosystem function in a mountain watershed on the Qinghai-Tibet Plateau. Climatic Change, 2019, 156, 31-50.	3.6	24
30	Critical land change information enhances the understanding of carbon balance in the United States. Global Change Biology, 2020, 26, 3920-3929.	9.5	24
31	Combining GOES-R and ECOSTRESS land surface temperature data to investigate diurnal variations of surface urban heat island. Science of the Total Environment, 2022, 823, 153652.	8.0	19
32	Forest cutting and impacts on carbon in the eastern United States. Scientific Reports, 2013, 3, 3547.	3.3	18
33	Future shift of the relative roles of precipitation and temperature in controlling annual runoff in the conterminous United States. Hydrology and Earth System Sciences, 2017, 21, 5517-5529.	4.9	18
34	An integrated assessment on the warming effects of urbanization and agriculture in highly developed urban agglomerations of China. Science of the Total Environment, 2022, 804, 150119.	8.0	17
35	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. Ecological Modelling, 2014, 288, 47-54.	2.5	15
36	Processes and trends of the land use change in Aksu watershed in the central Asia from 1960 to 2008. Journal of Arid Land, 2010, 2, 157-166.	2.3	15

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37	Administrative-Hierarchical Urban Land Expansion in China: Urban Agglomeration in the Yangtze River Delta. Journal of the Urban Planning and Development Division, ASCE, 2018, 144, 05018018.	1.7	12
38	Detection of the Coupling between Vegetation Leaf Area and Climate in a Multifunctional Watershed, Northwestern China. Remote Sensing, 2016, 8, 1032.	4.0	11
39	Estimating carbon sequestration in the piedmont ecoregion of the United States from 1971 to 2010. Carbon Balance and Management, 2016, 11, 10.	3.2	10
40	Identifying a transition climate zone in an arid river basin using the evaporative stress index. Natural Hazards and Earth System Sciences, 2019, 19, 2281-2294.	3.6	10
41	An Improved Water Budget for the El Yunque National Forest, Puerto Rico, as Determined by the Water Supply Stress Index Model. Forest Science, 2018, 64, 268-279.	1.0	8
42	Impacts of grazing and climate change on the aboveground net primary productivity of mountainous grassland ecosystems along altitudinal gradients over the Northern Tianshan Mountains, China. Acta Ecologica Sinica, 2012, 32, 81-92.	0.1	4
43	An improved water budget for the El Yunque National Forest, Puerto Rico, as determined by the Water Supply Stress Index model. Forest Science, 0, , .	1.0	0