

Mingliang Liu

List of Publications by Year in descending order

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68
papers

5,450
citations

94269

37
h-index

98622

67
g-index

69
all docs

69
docs citations

69
times ranked

5934
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and temporal patterns of China's cropland during 1990â€“2000: An analysis based on Landsat TM data. <i>Remote Sensing of Environment</i> , 2005, 98, 442-456.	4.6	918
2	Model estimates of net primary productivity, evapotranspiration, and water use efficiency in the terrestrial ecosystems of the southern United States during 1895â€“2007. <i>Forest Ecology and Management</i> , 2010, 259, 1311-1327.	1.4	300
3	Characterization of forest types in Northeastern China, using multi-temporal SPOT-4 VEGETATION sensor data. <i>Remote Sensing of Environment</i> , 2002, 82, 335-348.	4.6	277
4	China's terrestrial carbon balance: Contributions from multiple global change factors. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	231
5	China's land cover and land use change from 1700 to 2005: Estimations from high-resolution satellite data and historical archives. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	188
6	China's changing landscape during the 1990s: Large-scale land transformations estimated with satellite data. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	186
7	Global methane and nitrous oxide emissions from terrestrial ecosystems due to multiple environmental changes. <i>Ecosystem Health and Sustainability</i> , 2015, 1, 1-20.	1.5	180
8	Spatial and temporal patterns of CH ₄ and N ₂ O fluxes in terrestrial ecosystems of North America during 1979â€“2008: application of a global biogeochemistry model. <i>Biogeosciences</i> , 2010, 7, 2673-2694.	1.3	153
9	Effects of Land Use and Land Cover Change on Evapotranspiration and Water Yield in China During 1900â€“2000 ¹ . <i>Journal of the American Water Resources Association</i> , 2008, 44, 1193-1207.	1.0	152
10	Net exchanges of CO ₂ , CH ₄ , and N ₂ O between China's terrestrial ecosystems and the atmosphere and their contributions to global climate warming. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
11	Impacts of urbanization on carbon balance in terrestrial ecosystems of the Southern United States. <i>Environmental Pollution</i> , 2012, 164, 89-101.	3.7	137
12	Century-Scale Responses of Ecosystem Carbon Storage and Flux to Multiple Environmental Changes in the Southern United States. <i>Ecosystems</i> , 2012, 15, 674-694.	1.6	130
13	Pools and distributions of soil phosphorus in China. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	1.9	122
14	Assessment of decoupling between rural settlement area and rural population in China. <i>Land Use Policy</i> , 2014, 39, 331-341.	2.5	113
15	Evaluating water stress controls on primary production in biogeochemical and remote sensing based models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108
16	Assessing the effect of land use/land cover change on the change of urban heat island intensity. <i>Theoretical and Applied Climatology</i> , 2007, 90, 217-226.	1.3	106
17	Drought in the Southern United States over the 20th century: variability and its impacts on terrestrial ecosystem productivity and carbon storage. <i>Climatic Change</i> , 2012, 114, 379-397.	1.7	100
18	Food benefit and climate warming potential of nitrogen fertilizer uses in China. <i>Environmental Research Letters</i> , 2012, 7, 044020.	2.2	95

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19	Farmland Conversion Decreases Regional and National Land Quality in China. <i>Land Degradation and Development</i> , 2017, 28, 459-471.	1.8	95
20	Effect of nitrogen deposition on China's terrestrial carbon uptake in the context of multifactor environmental changes. <i>Ecological Applications</i> , 2012, 22, 53-75.	1.8	93
21	Long-term trends in evapotranspiration and runoff over the drainage basins of the Gulf of Mexico during 1901–2008. <i>Water Resources Research</i> , 2013, 49, 1988-2012.	1.7	90
22	Effects of tropospheric ozone pollution on net primary productivity and carbon storage in terrestrial ecosystems of China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	81
23	Climate and land use controls over terrestrial water use efficiency in monsoon Asia. <i>Ecohydrology</i> , 2011, 4, 322-340.	1.1	79
24	Impacts of tropospheric ozone and climate change on net primary productivity and net carbon exchange of China's forest ecosystems. <i>Global Ecology and Biogeography</i> , 2011, 20, 391-406.	2.7	78
25	Attribution of spatial and temporal variations in terrestrial methane flux over North America. <i>Biogeosciences</i> , 2010, 7, 3637-3655.	1.3	70
26	Spatial and temporal patterns of CO ₂ and CH ₄ fluxes in China's croplands in response to multifactor environmental changes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 222.	0.8	65
27	Spatial and temporal patterns of carbon emissions from forest fires in China from 1950 to 2000. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	61
28	Influence of ozone pollution and climate variability on net primary productivity and carbon storage in China's grassland ecosystems from 1961 to 2000. <i>Environmental Pollution</i> , 2007, 149, 327-335.	3.7	59
29	Effect of Land-Cover Change on Terrestrial Carbon Dynamics in the Southern United States. <i>Journal of Environmental Quality</i> , 2006, 35, 1533-1547.	1.0	57
30	Watershed Evapotranspiration Increased due to Changes in Vegetation Composition and Structure Under a Subtropical Climate. <i>Journal of the American Water Resources Association</i> , 2008, 44, 1164-1175.	1.0	55
31	Research activities on land-use/cover change in the past ten years in China using space technology. <i>Chinese Geographical Science</i> , 1999, 9, 330-334.	1.2	52
32	Hydrological Responses to Climate and Land-Use Changes along the North American East Coast: A 110-Year Historical Reconstruction. <i>Journal of the American Water Resources Association</i> , 2015, 51, 47-67.	1.0	50
33	Numerical Simulation of Population Distribution in China. <i>Population and Environment</i> , 2003, 25, 141-163.	1.3	49
34	Effects of multiple environment stresses on evapotranspiration and runoff over eastern China. <i>Journal of Hydrology</i> , 2012, 426-427, 39-54.	2.3	48
35	Effects of Forest Regrowth and Urbanization on Ecosystem Carbon Storage in a Rural–Urban Gradient in the Southeastern United States. <i>Ecosystems</i> , 2008, 11, 1211-1222.	1.6	46
36	Contribution of increasing CO ₂ and climate change to the carbon cycle in China's ecosystems. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46

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37	Climate extremes dominating seasonal and interannual variations in carbon export from the Mississippi River Basin. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1333-1347.	1.9	46
38	Terrestrial carbon balance in tropical Asia: Contribution from cropland expansion and land management. <i>Global and Planetary Change</i> , 2013, 100, 85-98.	1.6	44
39	Impacts of climatic and atmospheric changes on carbon dynamics in the Great Smoky Mountains National Park. <i>Environmental Pollution</i> , 2007, 149, 336-347.	3.7	39
40	How climate change and fire exclusion drive wildfire regimes at actionable scales. <i>Environmental Research Letters</i> , 2021, 16, 024051.	2.2	38
41	Study on the spatial patterns of land-use change and analyses of driving forces in Northeastern China during 1990-2000. <i>Chinese Geographical Science</i> , 2002, 12, 299-308.	1.2	37
42	The effects of climate change and extreme wildfire events on runoff erosion over a mountain watershed. <i>Journal of Hydrology</i> , 2016, 536, 74-91.	2.3	35
43	Spatial heterogeneity of the driving forces of cropland change in China. <i>Science in China Series D: Earth Sciences</i> , 2005, 48, 2231-2240.	0.9	34
44	Multifactor controls on terrestrial N ₂ O flux over North America from 1979 through 2010. <i>Biogeosciences</i> , 2012, 9, 1351-1366.	1.3	34
45	Factors controlling changes in evapotranspiration, runoff, and soil moisture over the conterminous U.S.: Accounting for vegetation dynamics. <i>Journal of Hydrology</i> , 2018, 565, 123-137.	2.3	32
46	BioEarth: Envisioning and developing a new regional earth system model to inform natural and agricultural resource management. <i>Climatic Change</i> , 2015, 129, 555-571.	1.7	29
47	VIC-CropSyst-v2: A regional-scale modeling platform to simulate the nexus of climate, hydrology, cropping systems, and human decisions. <i>Geoscientific Model Development</i> , 2017, 10, 3059-3084.	1.3	26
48	Relationships Between Long-Term Trend of Satellite-Derived Chlorophyll-a and Hypoxia Off the Changjiang Estuary. <i>Estuaries and Coasts</i> , 2017, 40, 1055-1065.	1.0	23
49	What is the importance of climate model bias when projecting the impacts of climate change on land surface processes?. <i>Biogeosciences</i> , 2014, 11, 2601-2622.	1.3	22
50	Spatial-temporal variations of evapotranspiration and runoff/precipitation ratios responding to the changing climate in the Pacific Northwest during 1921-2006. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 380-394.	1.2	19
51	Net primary production of major plant functional types in China: Vegetation classification and ecosystem simulation. <i>Acta Ecologica Sinica</i> , 2015, 35, 28-36.	0.9	19
52	The spatio-temporal characteristics of drought across Tibet, China: derived from meteorological and agricultural drought indexes. <i>Theoretical and Applied Climatology</i> , 2019, 137, 2409-2424.	1.3	18
53	Spatialization model of population based on dataset of land use and land cover change in China. <i>Chinese Geographical Science</i> , 2002, 12, 114-119.	1.2	17
54	Uncertainties in estimates of cropland area in China: a comparison between an AVHRR-derived dataset and a Landsat TM-derived dataset. <i>Global and Planetary Change</i> , 2003, , .	1.6	14

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55	Projecting terrestrial carbon sequestration of the southeastern United States in the 21st century. <i>Ecosphere</i> , 2013, 4, 1-18.	1.0	13
56	Land-Cover Reconstruction and Change Analysis Using Multisource Remotely Sensed Imageries in Zhoushan Islands since 1970. <i>Journal of Coastal Research</i> , 2014, 294, 272-282.	0.1	13
57	Monitoring the occurrence of seasonal low-oxygen events off the Hangjiang estuary through integration of remote sensing, buoy observations, and modeling. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5311-5322.	1.0	12
58	Accounting for disturbance history in models: using remote sensing to constrain carbon and nitrogen pool spin-up. <i>Ecological Applications</i> , 2018, 28, 1197-1214.	1.8	11
59	Contribution of Snow-Melt Water to the Streamflow over the Three-River Headwater Region, China. <i>Remote Sensing</i> , 2021, 13, 1585.	1.8	11
60	How does water yield respond to mountain pine beetle infestation in a semiarid forest?. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 4681-4699.	1.9	11
61	Forecasting and Assessing the Large-Scale and Long-Term Impacts of Global Environmental Change on Terrestrial Ecosystems in the United States and China. , 2009, , 235-266.		10
62	Integrating WorldView-2 imagery and terrestrial LiDAR point clouds to extract dyke swarm geometry: Implications for magma emplacement mechanisms. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 310, 1-11.	0.8	8
63	Projecting Future Fire Regimes in a Semiarid Watershed of the Inland Northwestern United States: Interactions Among Climate Change, Vegetation Productivity, and Fuel Dynamics. <i>Earth's Future</i> , 2022, 10, .	2.4	7
64	Design and Implementation of Kepler Workflows for BioEarth. <i>Procedia Computer Science</i> , 2014, 29, 1722-1732.	1.2	5
65	Impacts of irrigation efficiency on water-dependent sectors are heavily controlled by region-specific institutions and infrastructures. <i>Journal of Environmental Management</i> , 2021, 300, 113731.	3.8	5
66	THE TERRESTRIAL CARBON BUDGET IN EAST ASIA: HUMAN AND NATURAL IMPACTS. <i>Monsoon Asia Integrated Regional Study on Global Change</i> , 2008, , 163-176.	0.0	3
67	Evapotranspiration of Irrigated Crops under Warming and Elevated Atmospheric CO ₂ : What Is the Direction of Change?. <i>Atmosphere</i> , 2022, 13, 163.	1.0	3
68	Suitability of Earth Engine Evaporation Flux (EEFlux) Estimation of Evapotranspiration in Rainfed Crops. <i>Remote Sensing</i> , 2021, 13, 3884.	1.8	2