Xiuzhi Chen

List of Publications by Year
in descending order

40 papers	914 citations	516710 16 h-index	477307 29 g-index
40 all docs	40 docs citations	40 times ranked	1311 citing authors

#	Article	IF	Citations
1	Global pattern for the effect of climate and land cover on water yield. Nature Communications, 2015, 6, 5918.	12.8	236
2	Study on the cooling effects of urban parks on surrounding environments using Landsat TM data: a case study in Guangzhou, southern China. International Journal of Remote Sensing, 2012, 33, 5889-5914.	2.9	87
3	The Microwave Temperature Vegetation Drought Index (MTVDI) based on AMSR-E brightness temperatures for long-term drought assessment across China (2003â€"2010). Remote Sensing of Environment, 2017, 199, 302-320.	11.0	54
4	Detecting significant decreasing trends of land surface soil moisture in eastern China during the past three decades (1979â€"2010). Journal of Geophysical Research D: Atmospheres, 2016, 121, 5177-5192.	3.3	44
5	Novel Representation of Leaf Phenology Improves Simulation of Amazonian Evergreen Forest Photosynthesis in a Land Surface Model. Journal of Advances in Modeling Earth Systems, 2020, 12, e2018MS001565.	3.8	36
6	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. Global Biogeochemical Cycles, 2021, 35, e2020GB006893.	4.9	31
7	Large influence of atmospheric vapor pressure deficit on ecosystem production efficiency. Nature Communications, 2022, 13, 1653.	12.8	31
8	Water-use efficiency of an old-growth forest in lower subtropical China. Scientific Reports, 2017, 7, 42761.	3.3	28
9	Decarbonizing Chinaâ€™s Urban Agglomerations. Annals of the American Association of Geographers, 2019, 109, 266-285.	2.2	26
10	Partitioning evapotranspiration in an intact forested watershed in southern China. Ecohydrology, 2015, 8, 1037-1047.	2.4	22
11	50-year evapotranspiration declining and potential causations in subtropical Guangdong province, southern China. Catena, 2015, 128, 185-194.	5.0	21
12	Delayed impact of natural climate solutions. Global Change Biology, 2021, 27, 215-217.	9.5	20
13	Tropical tall forests are more sensitive and vulnerable to drought than short forests. Global Change Biology, 2022, 28, 1583-1595.	9.5	20
14	Quantifying the biophysical effects of forests on local air temperature using a novel three-layered land surface energy balance model. Environment International, 2019, 132, 105080.	10.0	19
15	A comprehensive framework for seasonal controls of leaf abscission and productivity in evergreen broadleaved tropical and subtropical forests. Innovation(China), 2021, 2, 100154.	9.1	19
16	Phenology acts as a primary control of urban vegetation cooling and warming: A synthetic analysis of global site observations. Agricultural and Forest Meteorology, 2020, 280, 107765.	4.8	18
17	Estimating the cooling effect magnitude of urban vegetation in different climate zones using multi-source remote sensing. Urban Climate, 2022, 43, 101155.	5.7	18
18	Global Response of Evapotranspiration Ratio to Climate Conditions and Watershed Characteristics in a Changing Environment. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032371.	3.3	16

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19	A Processes‐Based Dynamic Root Growth Model Integrated Into the Ecosystem Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4614-4628.	3.8	15
20	Quantitative association between the water yield impacts of forest cover changes and the biophysical effects of forest cover on temperatures. Journal of Hydrology, 2021, 600, 126529.	5.4	13
21	Climatic and biotic factors influencing regional declines and recovery of tropical forest biomass from the 2015/16 El Niño. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	13
22	European Carbon Uptake has Not Benefited From Vegetation Greening. Geophysical Research Letters, 2021, 48, e2021GL094870.	4.0	12
23	Estimating ecological sustainability in the Guangdong-Hong Kong-Macao Greater Bay Area, China: Retrospective analysis and prospective trajectories. Journal of Environmental Management, 2022, 303, 114167.	7.8	12
24	Retrieving China's surface soil moisture and land surface temperature using AMSR-E brightness temperatures. Remote Sensing Letters, 2014, 5, 662-671.	1.4	9
25	Spatial clusters and temporal trends of seasonal surface soil moisture across China in responses to regional climate and land cover changes. Ecohydrology, 2017, 10, e1800.	2.4	9
26	Aerodynamic resistance and Bowen ratio explain the biophysical effects of forest cover on understory air and soil temperatures at the global scale. Agricultural and Forest Meteorology, 2021, 308-309, 108615.	4.8	9
27	Development of a Process‐Based N_2O Emission Model for Natural Forest and Grassland Ecosystems. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	8
28	A Microbial Functional Group‐Based CH_4 Model Integrated Into a Terrestrial Ecosystem Model: Model Structure, Site‐Level Evaluation, and Sensitivity Analysis. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001867.	3.8	7
29	Regional evaluation of satellite‐based methods for identifying end of vegetation growing season. Remote Sensing in Ecology and Conservation, 2021, 7, 685-699.	4.3	7
30	Litterfall seasonality and adaptive strategies of tropical and subtropical evergreen forests in China. Journal of Plant Ecology, 2022, 15, 320-334.	2.3	7
31	Remote Sensing of Seasonal Climatic Constraints on Leaf Phenology Across Pantropical Evergreen Forest Biome. Earth's Future, 2021, 9, e2021EF002160.	6.3	7
32	Leaf shedding of Pan-Asian tropical evergreen forests depends on the synchrony of seasonal variations of rainfall and incoming solar radiation. Agricultural and Forest Meteorology, 2021, 311, 108691.	4.8	7
33	Bidirectional drought‐related canopy dynamics across pantropical forests: a satellite‐based statistical analysis. Remote Sensing in Ecology and Conservation, 2022, 8, 72-91.	4.3	6
34	Higher plant photosynthetic capability in autumn responding to low atmospheric vapor pressure deficit. Innovation(China), 2021, 2, 100163.	9.1	6
35	Deficiencies of Phenology Models in Simulating Spatial and Temporal Variations in Temperate Spring Leaf Phenology. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	6
36	Landscape structure and network characteristics of the greenway system in Guangzhou City, South China. Landscape and Ecological Engineering, 2019, 15, 25-35.	1.5	5

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37	Reply to 'Flawed assumptions compromise water yield assessment'. Nature Communications, 2018, 9, 4788.	12.8	3
38	Partitioning of three phenology rhythms in American tropical and subtropical forests using remotely sensed solar-induced chlorophyll fluorescence and field litterfall observations. International Journal of Applied Earth Observation and Geoinformation, 2022, 107, 102698.	2.8	3
39	Digitizing the thermal and hydrological parameters of land surface in subtropical China using AMSR-E brightness temperatures. International Journal of Digital Earth, 2017, 10, 687-700.	3.9	2
40	Natural forest growth and human induced ecosystem disturbance influence water yield in forests. Communications Earth & Environment, 2022, 3, .	6.8	2