Ecosystem resilience despite large-scale altered hydroc

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#	Article	IF	Citations
1	Accuracy of Satellite Land Surface Reflectance Determination. Journal of Applied Meteorology and Climatology, 1991, 30, 960-972.	1.7	11
2	Carbon and water fluxes in an arid-zone Acacia savanna woodland: An analyses of seasonal patterns and responses to rainfall events. Agricultural and Forest Meteorology, 2013, 182-183, 225-238.	4.8	115
3	Conservation of Tropical Plant Biodiversity: What Have We Done, Where Are We Going?. Biotropica, 2013, 45, 693-708.	1.6	30
4	Impact of CO₂ fertilization on maximum foliage cover across the globe's warm, arid environments. Geophysical Research Letters, 2013, 40, 3031-3035.	4.0	442
5	Vegetation response to extreme climate events on the Mongolian Plateau from 2000 to 2010. Environmental Research Letters, 2013, 8, 035033.	5.2	121
6	Precipitation thresholds and droughtâ€induced tree dieâ€off: insights from patterns of <scp>P</scp>inus edulis mortality along an environmental stress gradient. New Phytologist, 2013, 200, 413-421.	7.3	78
7	Contrasting response of grassland versus forest carbon and water fluxes to spring drought in Switzerland. Environmental Research Letters, 2013, 8, 035007.	5.2	108
8	Urban vegetation and income segregation in drylands: a synthesis of seven metropolitan regions in the southwestern United States. Environmental Research Letters, 2013, 8, 044001.	5.2	54
9	Variations in atmospheric CO ₂ growth rates coupled with tropical temperature. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13061-13066.	7.1	144
10	An initial assessment of Suomi NPP VIIRS vegetation index EDR. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,301.	3.3	36
11	Dynamics of component carbon fluxes in a semiâ€arid Acacia woodland, central Australia. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1168-1185.	3.0	94
12	A vital link: water and vegetation in the Anthropocene. Hydrology and Earth System Sciences, 2013, 17, 3841-3852.	4.9	25
13	Land surface phenological response to decadal climate variability across Australia using satellite remote sensing. Biogeosciences, 2014, 11, 5181-5198.	3.3	85
14	Impacts of droughts on carbon sequestration by China's terrestrial ecosystems from 2000 to 2011. Biogeosciences, 2014, 11, 2583-2599.	3.3	73
16	Toward the Use of the MODIS ET Product to Estimate Terrestrial GPP for Nonforest Ecosystems. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1624-1628.	3.1	20
17	Changing forest water yields in response to climate warming: results from longâ€term experimental watershed sites across North America. Global Change Biology, 2014, 20, 3191-3208.	9.5	147
18	Intrinsic climate dependency of ecosystem light and water-use-efficiencies across Australian biomes. Environmental Research Letters, 2014, 9, 104002.	5.2	27
19	Patterns and controlling factors of residential water use in Los Angeles, California. Water Policy, 2014, 16, 1054-1069.	1.5	45

#	Article	IF	Citations
20	Mechanisms of grass response in grasslands and shrublands during dry or wet periods. Oecologia, 2014, 174, 1323-1334.	2.0	46
21	Anticipating the spatioâ€temporal response of plant diversity and vegetation structure to climate and land use change in a protected area. Ecography, 2014, 37, 1230-1239.	4.5	42
22	Energy positive domestic wastewater treatment: the roles of anaerobic and phototrophic technologies. Environmental Sciences: Processes and Impacts, 2014, 16, 1204-1222.	3.5	119
23	Functional response of U.S. grasslands to the early 21stâ€century drought. Ecology, 2014, 95, 2121-2133.	3.2	75
24	Convergence of terrestrial plant production across global climate gradients. Nature, 2014, 512, 39-43.	27.8	274
25	Impacts of climate change drivers on C4 grassland productivity: scaling driver effects through the plant community. Journal of Experimental Botany, 2014, 65, 3415-3424.	4.8	30
26	Caatinga, the Brazilian dry tropical forest: can it tolerate climate changes?. Theoretical and Experimental Plant Physiology, 2014, 26, 83-99.	2.4	136
27	Recent drought phase in a 73-year record at two spatial scales: Implications for livestock production on rangelands in the Southwestern United States. Agricultural and Forest Meteorology, 2014, 197, 40-51.	4.8	27
28	When vegetation change alters ecosystem water availability. Global Change Biology, 2014, 20, 2198-2210.	9.5	78
29	Fifty years since Monteith's 1965 seminal paper: the emergence of global ecohydrology. Ecohydrology, 2014, 7, 897-902.	2.4	39
30	Water use efficiency threshold for terrestrial ecosystem carbon sequestration in China under afforestation. Agricultural and Forest Meteorology, 2014, 195-196, 32-37.	4.8	118
31	Impact of prolonged drought on rainfall use efficiency using MODIS data across China in the early 21st century. Remote Sensing of Environment, 2014, 150, 188-197.	11.0	70
32	Evaluation of the ORCHIDEE ecosystem model over Africa against 25 years of satellite-based water and carbon measurements. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1554-1575.	3.0	31
33	Taking the pulse of a continent: expanding siteâ€based research infrastructure for regionalâ€to continentalâ€scale ecology. Ecosphere, 2014, 5, 1-23.	2.2	62
34	GRACE satellite observed hydrological controls on interannual and seasonal variability in surface greenness over mainland Australia. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 2245-2260.	3.0	118
35	Spatial and temporal variations in ecosystem response to monsoon precipitation variability in southwestern North America. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1999-2017.	3.0	26
36	Influence of the Atlantic Meridional Overturning Circulation on the monsoon rainfall and carbon balance of the American tropics. Geophysical Research Letters, 2014, 41, 146-151.	4.0	34
37	Water use efficiency of Chinaâ€™s terrestrial ecosystems and responses to drought. Scientific Reports, 2015, 5, 13799.	3.3	141

#	Article	IF	Citations
38	The influence of multiyear drought on the annual rainfallâ€•runoff relationship: An <scp>A</scp>ustralian perspective. Water Resources Research, 2015, 51, 2444-2463.	4.2	158
39	Comparing two approaches for parsimonious vegetation modelling in semiarid regions using satellite data. Ecohydrology, 2015, 8, 1024-1036.	2.4	14
40	Resilience as a universal criterion of health. Journal of the Science of Food and Agriculture, 2015, 95, 455-465.	3.5	69
41	Seasonality of soil moisture mediates responses of ecosystem phenology to elevated <scp>CO</scp>₂ and warming in a semiâ€arid grassland. Journal of Ecology, 2015, 103, 1119-1130.	4.0	56
42	Abrupt shifts in phenology and vegetation productivity under climate extremes. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2036-2052.	3.0	149
43	Distance decay is uncommon in largeâ€scale population synchrony of common moths: does it promote vulnerability to climate change?. Insect Conservation and Diversity, 2015, 8, 438-447.	3.0	4
44	Groundwater-dependent ecosystems: recent insights from satellite and field-based studies. Hydrology and Earth System Sciences, 2015, 19, 4229-4256.	4.9	116
45	Contrasting responses of terrestrial ecosystem production to hot temperature extreme regimes between grassland and forest. Biogeosciences, 2015, 12, 549-556.	3.3	7
46	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Introduction, Establishment, and Overview. Journal of Environmental Quality, 2015, 44, 3-12.	2.0	35
47	Long-Term Agroecosystem Research in the Central Mississippi River Basin: Goodwater Creek Experimental Watershed Weather Data. Journal of Environmental Quality, 2015, 44, 13-17.	2.0	16
48	Simulation of Forest Evapotranspiration Using Time-Series Parameterization of the Surface Energy Balance System (SEBS) over the Qilian Mountains. Remote Sensing, 2015, 7, 15822-15843.	4.0	12
49	C3 Vegetation Mapping and CO2 Fertilization Effect in the Arid Lower Heihe River Basin, Northwestern China. Remote Sensing, 2015, 7, 16384-16397.	4.0	2
50	Responses of Crop Water Use Efficiency to Climate Change and Agronomic Measures in the Semiarid Area of Northern China. PLoS ONE, 2015, 10, e0137409.	2.5	23
51	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. Agricultural and Forest Meteorology, 2015, 205, 11-22.	4.8	47
52	Contrasting tropical estuarine ecosystem functioning and stability: A comparative study. Estuarine, Coastal and Shelf Science, 2015, 155, 89-103.	2.1	17
53	Analysis of spatial and temporal patterns of net primary production and their climate controls in China from 1982 to 2010. Agricultural and Forest Meteorology, 2015, 204, 22-36.	4.8	173
54	Characterizing differences in precipitation regimes of extreme wet and dry years: implications for climate change experiments. Global Change Biology, 2015, 21, 2624-2633.	9.5	233
55	Pervasive drought legacies in forest ecosystems and their implications for carbon cycle models. Science, 2015, 349, 528-532.	12.6	836

#	Article	IF	Citations
56	The basis of resilience in forest tree species and its use in adaptive forest management in Britain. Forestry, 2015, 88, 13-26.	2.3	48
57	When the desert was green: Grassland expansion during the early Holocene in northwestern Arabia. Quaternary International, 2015, 382, 293-302.	1.5	34
58	Impact of Varying Storm Intensity and Consecutive Dry Days on Grassland Soil Moisture. Journal of Hydrometeorology, 2015, 16, 106-117.	1.9	13
59	Tree mortality predicted from drought-induced vascular damage. Nature Geoscience, 2015, 8, 367-371.	12.9	317
60	Evaluation of the performance of Suomi NPP VIIRS top of canopy vegetation indices over AERONET sites. Remote Sensing of Environment, 2015, 162, 29-44.	11.0	8
61	Beyond desertification: new paradigms for dryland landscapes. Frontiers in Ecology and the Environment, 2015, 13, 4-12.	4.0	60
62	Functional redundancy of multiple forest taxa along an elevational gradient: predicting the consequences of nonâ€rrandom species loss. Journal of Biogeography, 2015, 42, 1383-1396.	3.0	28
63	On underestimation of global vulnerability to tree mortality and forest dieâ€off from hotter drought in the Anthropocene. Ecosphere, 2015, 6, 1-55.	2.2	1,739
64	On regreening and degradation in Sahelian watersheds. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12133-12138.	7.1	72
65	A spatially explicit land surface phenology data product for science, monitoring and natural resources management applications. Environmental Modelling and Software, 2015, 64, 191-204.	4.5	67
66	Vegetation effects on the water balance of mountain grasslands depend on climatic conditions. Ecohydrology, 2015, 8, 552-569.	2.4	25
67	Dryland Vegetation Functional Response to Altered Rainfall Amounts and Variability Derived from Satellite Time Series Data. Remote Sensing, 2016, 8, 1026.	4.0	12
68	Spectral Cross-Calibration of VIIRS Enhanced Vegetation Index with MODIS: A Case Study Using Year-Long Global Data. Remote Sensing, 2016, 8, 34.	4.0	22
69	Assessment of Spatial Representativeness of Eddy Covariance Flux Data from Flux Tower to Regional Grid. Remote Sensing, 2016, 8, 742.	4.0	16
70	Global patterns and climate drivers of waterâ€use efficiency in terrestrial ecosystems deduced from satelliteâ€based datasets and carbon cycle models. Global Ecology and Biogeography, 2016, 25, 311-323.	5.8	102
71	Vegetation productivity responds to subâ€annual climate conditions across semiarid biomes. Ecosphere, 2016, 7, e01339.	2.2	42
72	Climate change effects on crop evapotranspiration in the Carpathian Region from 1961 to 2010. Meteorological Applications, 2016, 23, 462-469.	2.1	20
73	Cumulative drought and landâ€use impacts on perennial vegetation across a North American dryland region. Applied Vegetation Science, 2016, 19, 430-441.	1.9	12

#	Article	IF	Citations
74	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. Global Change Biology, 2016, 22, 1867-1879.	9.5	142
75	The importance of interacting climate modes on Australiaâ€™s contribution to global carbon cycle extremes. Scientific Reports, 2016, 6, 23113.	3.3	65
76	Ecosystem responses to warming and watering in typical and desert steppes. Scientific Reports, 2016, 6, 34801.	3.3	27
77	Drought resistance across California ecosystems: evaluating changes in carbon dynamics using satellite imagery. Ecosphere, 2016, 7, e01561.	2.2	36
78	Agroecosystem research with big data and a modified scientific method using machine learning concepts. Ecosphere, 2016, 7, e01493.	2.2	7
79	Multi-decadal trends in global terrestrial evapotranspiration and its components. Scientific Reports, 2016, 6, 19124.	3.3	384
80	Remote Sensing of Landscape Biophysical Properties. , 0, , 206-236.		0
81	Drought rapidly diminishes the large net CO2 uptake in 2011 over semi-arid Australia. Scientific Reports, 2016, 6, 37747.	3.3	83
82	Predicting forage intake in extensive grazing systems1. Journal of Animal Science, 2016, 94, 26-43.	0.5	21
83	Productivity and evapotranspiration of two contrasting semiarid ecosystems following the 2011 global carbon land sink anomaly. Agricultural and Forest Meteorology, 2016, 220, 151-159.	4.8	54
84	Carbon Economy of Subtropical Forests. Tree Physiology, 2016, , 337-355.	2.5	18
85	Physiological adjustments of a Mediterranean shrub to long-term experimental warming and drought treatments. Plant Science, 2016, 252, 53-61.	3.6	15
86	Nitrogen restrictions buffer modeled interactions of water with the carbon cycle. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 218-232.	3.0	5
87	Groundwater Dependent Ecosystems: Classification, Identification Techniques and Threats. , 2016, , 313-346.		25
88	Estimation of above-ground biomass using MODIS satellite imagery of multiple land-cover types in China. Remote Sensing Letters, 2016, 7, 1141-1149.	1.4	13
89	Modelling Seasonal and Inter-annual Variations in Carbon and Water Fluxes in an Arid-Zone Acacia Savanna Woodland, 1981â€“2012. Ecosystems, 2016, 19, 625-644.	3.4	17
90	Ecosystem resilience to the Millennium drought in southeast Australia (2001â€“2009). Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2312-2327.	3.0	17
91	Contrasting responses of water use efficiency to drought across global terrestrial ecosystems. Scientific Reports, 2016, 6, 23284.	3.3	227

#	Article	IF	Citations
92	Landsat and GRACE observations of arid wetland dynamics in a dryland river system under multi-decadal hydroclimatic extremes. Journal of Hydrology, 2016, 543, 818-831.	5.4	20
93	Loss of variation of state detected in soybean metabolic and human myelomonocytic leukaemia cell transcriptional networks under external stimuli. Scientific Reports, 2016, 6, 35946.	3.3	4
94	Drought resilience of Australian rangelands under intense hydroclimatic variability. , 2016, , .		0
95	Revealing turning points in ecosystem functioning over the Northern Eurasian agricultural frontier. Global Change Biology, 2016, 22, 2801-2817.	9.5	71
96	Integrating land cover structure and functioning to predict biodiversity patterns: a hierarchical modelling framework designed for ecosystem management. Landscape Ecology, 2016, 31, 701-710.	4.2	7
97	Vegetation's responses to climate variability. Nature, 2016, 531, 181-182.	27.8	54
98	Seasonal variation in ecosystem water use efficiency in an urban-forest reserve affected by periodic drought. Agricultural and Forest Meteorology, 2016, 221, 142-151.	4.8	55
99	Regeneration switch is a gas. Nature, 2016, 531, 182-183.	27.8	3
100	Global warming-related tree growth decline and mortality on the north-eastern Tibetan plateau. Climatic Change, 2016, 134, 163-176.	3.6	153
101	Complexity confers stability: Climate variability, vegetation response and sand transport on longitudinal sand dunes in Australiaâ€™s deserts. Aeolian Research, 2017, 25, 45-61.	2.7	30
102	Physiological homeostasis and morphological plasticity of two tree species subjected to precipitation seasonal distribution changes. Perspectives in Plant Ecology, Evolution and Systematics, 2017, 25, 1-19.	2.7	19
103	Spatial continuity and local conditions determine spatial pattern of dried soil layers on the Chinese Loess Plateau. Journal of Soils and Sediments, 2017, 17, 2030-2039.	3.0	13
104	Pilot-scale benthic microbial electrochemical system (BMES) for the bioremediation of polluted river sediment. Journal of Power Sources, 2017, 356, 430-437.	7.8	50
105	Moistureâ€induced greening of the South Asia over the past three decades. Global Change Biology, 2017, 23, 4995-5005.	9.5	55
106	A global examination of the response of ecosystem water-use efficiency to drought based on MODIS data. Science of the Total Environment, 2017, 601-602, 1097-1107.	8.0	121
107	High sensitivity of gross primary production in the Rocky Mountains to summer rain. Geophysical Research Letters, 2017, 44, 3643-3652.	4.0	22
108	<scp>CO</scp>₂ exchange and evapotranspiration across dryland ecosystems of southwestern North America. Global Change Biology, 2017, 23, 4204-4221.	9.5	164
109	Reconciling inconsistencies in precipitationâ€“productivity relationships: implications for climate change. New Phytologist, 2017, 214, 41-47.	7.3	286

#	Article	IF	Citations
110	A new indicator of ecosystem water use efficiency based on surface soil moisture retrieved from remote sensing. Ecological Indicators, 2017, 75, 10-16.	6.3	32
111	Longâ€term forest resilience to climate change indicated by mortality, regeneration, and growth in semiarid southern <scp>S</scp>iberia. Global Change Biology, 2017, 23, 2370-2382.	9.5	56
112	Grassland gross carbon dioxide uptake based on an improved model tree ensemble approach considering human interventions: global estimation and covariation with climate. Global Change Biology, 2017, 23, 2720-2742.	9.5	24
113	Seasonal variation in nutrient utilization shapes gut microbiome structure and function in wild giant pandas. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170955.	2.6	99
114	Partitioning evapotranspiration using longâ€term carbon dioxide and water vapor fluxes. Geophysical Research Letters, 2017, 44, 6833-6840.	4.0	104
115	Assessing the ability of MODIS EVI to estimate terrestrial ecosystem gross primary production of multiple land cover types. Ecological Indicators, 2017, 72, 153-164.	6.3	59
116	Sensitivity of terrestrial water and carbon fluxes to climate variability in semi-humid basins of Haihe River, China. Ecological Modelling, 2017, 353, 117-128.	2.5	10
117	Assessment of ecological instream flow requirements under climate change Pseudorasbora parva. International Journal of Environmental Science and Technology, 2017, 14, 509-520.	3.5	5
118	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. Ecosystems, 2017, 20, 515-526.	3.4	54
119	Monitoring Changes in Water Use Efficiency to Understand Drought Induced Tree Mortality. Forests, 2017, 8, 365.	2.1	13
120	Relationship of Climatic and Forest Factors to Drought- and Heat-Induced Tree Mortality. PLoS ONE, 2017, 12, e0169770.	2.5	35
121	Large-scale vegetation responses to terrestrial moisture storage changes. Hydrology and Earth System Sciences, 2017, 21, 4469-4478.	4.9	42
122	Climate Change Impacts on Net Ecosystem Productivity in a Subtropical Shrubland of Northwestern MÃ©xico. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 688-711.	3.0	13
123	Global patterns of extreme drought-induced loss in land primary production: Identifying ecological extremes from rain-use efficiency. Science of the Total Environment, 2018, 628-629, 611-620.	8.0	69
124	Legacy effects of a regional drought on aboveground net primary production in six central US grasslands. Plant Ecology, 2018, 219, 505-515.	1.6	66
125	Warming and Elevated CO2 Interact to Alter Seasonality and Reduce Variability of Soil Water in a Semiarid Grassland. Ecosystems, 2018, 21, 1533-1544.	3.4	11
126	Water use efficiency of three mycorrhizal Lamiaceae species (Lavandula officinalis, Rosmarinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 10	5.6	37
127	Evaluating Global Land Surface Models in CMIP5: Analysis of Ecosystem Water- and Light-Use Efficiencies and Rainfall Partitioning. Journal of Climate, 2018, 31, 2995-3008.	3.2	20

#	Article	IF	Citations
128	Tree rings reveal a major episode of forest mortality in the late 18th century on the Tibetan Plateau. Global and Planetary Change, 2018, 163, 44-50.	3.5	19
129	Transpiration Dominates Ecosystem Waterâ€Use Efficiency in Response to Warming in an Alpine Meadow. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 453-462.	3.0	44
130	Sensitivity and resilience of ecosystems to climate variability in the semiâ€arid to hyperâ€arid areas of Northern China: a case study in the Heihe River Basin. Ecological Research, 2018, 33, 161-174.	1.5	23
131	Aridity Induces Nonlinear Effects of Human Disturbance on Precipitation-Use Efficiency of Iberian Woodlands. Ecosystems, 2018, 21, 1295-1305.	3.4	8
132	Ways forward for resilience research in agroecosystems. Agricultural Systems, 2018, 162, 19-27.	6.1	75
133	A drought indicator reflecting ecosystem responses to water availability: The Normalized Ecosystem Drought Index. Agricultural and Forest Meteorology, 2018, 250-251, 102-117.	4.8	27
134	Degradation trends based on MODIS-derived estimates of productivity and water use efficiency: A case study for the cultivated pastures in the Brazilian Cerrado. Remote Sensing Applications: Society and Environment, 2018, 11, 30-40.	1.5	8
135	Drought timing influences the legacy of tree growth recovery. Global Change Biology, 2018, 24, 3546-3559.	9.5	165
136	Mean annual precipitation predicts primary production resistance and resilience to extreme drought. Science of the Total Environment, 2018, 636, 360-366.	8.0	109
137	Weakening sensitivity of global vegetation to long-term droughts. Science China Earth Sciences, 2018, 61, 60-70.	5.2	12
138	Spatio-temporal variation in vegetation net primary productivity and its relationship with climatic factors in the Shule River basin from 2001 to 2010. Human and Ecological Risk Assessment (HERA), 2018, 24, 797-818.	3.4	31
139	Response of the water use efficiency of natural vegetation to drought in Northeast China. Journal of Chinese Geography, 2018, 28, 611-628.	3.9	21
140	Under which climate and soil conditions the plant productivityâ€“precipitation relationship is linear or nonlinear?. Science of the Total Environment, 2018, 616-617, 1174-1180.	8.0	32
141	Assessment of ecosystem resilience to hydroclimatic disturbances in India. Global Change Biology, 2018, 24, e432-e441.	9.5	71
142	Diverse sensitivity of winter crops over the growing season to climate and land surface temperature across the rainfed cropland-belt of eastern Australia. Agriculture, Ecosystems and Environment, 2018, 254, 99-110.	5.3	16
143	Experimentally simulating warmer and wetter climate additively improves rangeland quality on the Tibetan Plateau. Journal of Applied Ecology, 2018, 55, 1486-1497.	4.0	38
144	Drivers of terrestrial plant production across broad geographical gradients. Global Ecology and Biogeography, 2018, 27, 166-174.	5.8	60
145	Shrubland carbon sink depends upon winter water availability in the warm deserts of North America. Agricultural and Forest Meteorology, 2018, 249, 407-419.	4.8	49

#	Article	IF	Citations
146	Determining agricultural drought for spring wheat with statistical models in a semi-arid climate. J Agricultural Meteorology, 2018, 74, 162-172.	1.5	8
147	A Forest Evapotranspiration Paradox Investigated Using Lysimeter Data. Vadose Zone Journal, 2018, 17, 1-7.	2.2	26
148	HOW STRONG IS THE RELATIONSHIP BETWEEN RAINFALL VARIABILITY AND CAATINGA PRODUCTIVITY? A CASE STUDY UNDER A CHANGING CLIMATE. Anais Da Academia Brasileira De Ciencias, 2018, 90, 2121-2127.	0.8	17
149	Precipitation thresholds regulate net carbon exchange at the continental scale. Nature Communications, 2018, 9, 3596.	12.8	39
150	Changes in the Carbon and Water Fluxes of Subtropical Forest Ecosystems in South-Western China Related to Drought. Water (Switzerland), 2018, 10, 821.	2.7	5
151	A Holistic View of Water Management Impacts on Future Droughts: A Global Multimodel Analysis. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5947-5972.	3.3	25
152	Precipitation amount and frequency affect seedling emergence and growth of Reaumuria soongarica in northwestern China. Journal of Arid Land, 2018, 10, 574-587.	2.3	11
153	Hydroclimatic response of evapotranspiration partitioning to prolonged droughts in semiarid grassland. Journal of Hydrology, 2018, 563, 766-777.	5.4	80
154	District-level assessment of the ecohydrological resilience to hydroclimatic disturbances and its controlling factors in India. Journal of Hydrology, 2018, 564, 1048-1057.	5.4	59
155	Spatial scaling of forest soil microbial communities across a temperature gradient. Environmental Microbiology, 2018, 20, 3504-3513.	3.8	24
156	Differences in ecosystem water-use efficiency among the typical croplands. Agricultural Water Management, 2018, 209, 142-150.	5.6	35
157	Shifts in the dynamics of productivity signal ecosystem state transitions at the biomeâ€scale. Ecology Letters, 2018, 21, 1457-1466.	6.4	57
158	Why Do Largeâ€Scale Land Surface Models Produce a Low Ratio of Transpiration to Evapotranspiration?. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9109-9130.	3.3	47
159	Vegetation Primary Productivity. , 2018, , 163-189.		7
160	Land degradation monitoring using terrestrial ecosystem carbon sinks/sources and their response to climate change in <scp>C</scp>hina. Land Degradation and Development, 2018, 29, 3489-3502.	3.9	42
161	Disentangling Climate and LAI Effects on Seasonal Variability in Water Use Efficiency Across Terrestrial Ecosystems in China. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2429-2443.	3.0	34
162	Evapotranspiration partitioning using an optimality-based ecohydrological model in a semiarid shrubland. International Journal of Digital Earth, 2019, 12, 1423-1440.	3.9	2
163	Variation of water use efficiency across seasons and years: Different role of herbaceous plants in desert ecosystem. Science of the Total Environment, 2019, 647, 827-835.	8.0	8

#	Article	IF	Citations
164	Climatic water availability is the main limiting factor of biotic attributes across large-scale elevational gradients in tropical forests. Science of the Total Environment, 2019, 647, 1211-1221.	8.0	39
165	Response of ecosystem water use efficiency to climate change in the Tianshan Mountains, Central Asia. Environmental Monitoring and Assessment, 2019, 191, 561.	2.7	19
166	Satellite-observed pantropical carbon dynamics. Nature Plants, 2019, 5, 944-951.	9.3	141
167	Responses of ecosystem water use efficiency to meteorological drought under different biomes and drought magnitudes in northern China. Agricultural and Forest Meteorology, 2019, 278, 107660.	4.8	72
168	TERN, Australiaâ€™s land observatory: addressing the global challenge of forecasting ecosystem responses to climate variability and change. Environmental Research Letters, 2019, 14, 095004.	5.2	34
169	Response of Ecosystem Water Use Efficiency to Drought over China during 1982â€“2015: Spatiotemporal Variability and Resilience. Forests, 2019, 10, 598.	2.1	42
170	Separating the effects of climate change and human activity on water use efficiency over the Beijing-Tianjin Sand Source Region of China. Science of the Total Environment, 2019, 690, 584-595.	8.0	43
171	Using Landsat observations (1988â€“2017) and Google Earth Engine to detect vegetation cover changes in rangelands - A first step towards identifying degraded lands for conservation. Remote Sensing of Environment, 2019, 232, 111317.	11.0	68
172	High ecosystem stability of evergreen broadleaf forests under severe droughts. Global Change Biology, 2019, 25, 3494-3503.	9.5	89
173	Nitrogen Loading Enhances Stress Impact of Drought on a Semi-natural Temperate Grassland. Frontiers in Plant Science, 2019, 10, 1051.	3.6	21
174	Assessing plant production responses to climate across water-limited regions using Google Earth Engine. Remote Sensing of Environment, 2019, 233, 111379.	11.0	21
175	The study of Yanshanian unconformity tectonic events in Northern Junggar Basin. IOP Conference Series: Earth and Environmental Science, 2019, 349, 012045.	0.3	1
176	Gastroesophageal reflux disease and chronic cough: A possible mechanism elucidated by ambulatory pHâ€impedanceâ€pressure monitoring. Neurogastroenterology and Motility, 2019, 31, e13707.	3.0	15
177	Copper Nanoclusters: Cu₁₄ Cluster with Partial Cu(0) Character: Difference in Electronic Structure from Isostructural Silver Analog (Adv. Sci. 18/2019). Advanced Science, 2019, 6, 1970108.	11.2	2
178	Improved Characterisation of Vegetation and Land Surface Seasonal Dynamics in Central Japan with Himawari-8 Hypertemporal Data. Scientific Reports, 2019, 9, 15692.	3.3	40
179	Climatic forcing for recent significant terrestrial drying and wetting. Advances in Water Resources, 2019, 133, 103425.	3.8	24
180	Remote sensing of the terrestrial carbon cycle: A review of advances over 50 years. Remote Sensing of Environment, 2019, 233, 111383.	11.0	276
181	Carbon fluxes across alpine, oasis, and desert ecosystems in northwestern China: The importance of water availability. Science of the Total Environment, 2019, 697, 133978.	8.0	29

#	Article	IF	Citations
182	Determinants of the ratio of actual to potential evapotranspiration. Global Change Biology, 2019, 25, 1326-1343.	9.5	39
183	Global Climate Change and Its Impact on Agriculture. , 2019, , 1-50.		25
184	Seasonal differences in relationships between changes in spring phenology and dynamics of carbon cycle in grasslands. Ecosphere, 2019, 10, e02733.	2.2	5
185	Detecting hotspots of interactions between vegetation greenness and terrestrial water storage using satellite observations. Remote Sensing of Environment, 2019, 231, 111259.	11.0	61
186	Vegetation dynamics and their effects on surface water-energy balance over the Three-North Region of China. Agricultural and Forest Meteorology, 2019, 275, 79-90.	4.8	51
187	Scale-free resilience of real traffic jams. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8673-8678.	7.1	92
188	Regulating water disturbance for mitigating drought stress to conserve and restore a desert riparian forest ecosystem. Journal of Hydrology, 2019, 572, 659-670.	5.4	28
189	Remote Sensing of Water Use Efficiency and Terrestrial Drought Recovery across the Contiguous United States. Remote Sensing, 2019, 11, 731.	4.0	50
190	Multifunctionality debt in global drylands linked to past biome and climate. Global Change Biology, 2019, 25, 2152-2161.	9.5	28
191	Speciesâ€rich boreal forests grew more and suffered less mortality than speciesâ€poor forests under the environmental change of the past halfâ€century. Ecology Letters, 2019, 22, 999-1008.	6.4	39
192	Dissecting the nonlinear response of maize yield to high temperature stress with modelâ€data integration. Global Change Biology, 2019, 25, 2470-2484.	9.5	56
193	Ecological responses to heavy rainfall depend on seasonal timing and multiâ€year recurrence. New Phytologist, 2019, 223, 647-660.	7.3	41
194	Using woody organic matter amendments to increase water availability and jumpâ€start soil restoration of desertified grassland soils of Ningxia, China. Land Degradation and Development, 2019, 30, 1313-1324.	3.9	20
195	Can the forest cover in India withstand large climate alterations?. Biodiversity and Conservation, 2019, 28, 2017-2033.	2.6	13
196	Multi-scale assessment of eco-hydrological resilience to drought in China over the last three decades. Science of the Total Environment, 2019, 672, 201-211.	8.0	46
197	Towards improved remote sensing based monitoring of dryland ecosystem functioning using sequential linear regression slopes (SeRGS). Remote Sensing of Environment, 2019, 224, 317-332.	11.0	27
198	Water-Use Efficiency Under Changing Climatic Conditions. , 2019, , 111-180.		19
199	Elucidating space, climate, edaphic, and biodiversity effects on aboveground biomass in tropical forests. Land Degradation and Development, 2019, 30, 918-927.	3.9	20

#	Article	IF	Citations
200	Mapping European ecosystem change types in response to landâ€use change, extreme climate events, and land degradation. Land Degradation and Development, 2019, 30, 951-963.	3.9	34
201	The impact of the 2009/2010 drought on vegetation growth and terrestrial carbon balance in Southwest China. Agricultural and Forest Meteorology, 2019, 269-270, 239-248.	4.8	199
202	Grassland production in response to changes in biological metrics over the Tibetan Plateau. Science of the Total Environment, 2019, 666, 641-651.	8.0	11
203	Multi-Temporal Variabilities of Evapotranspiration Rates and Their Associations with Climate Change and Vegetation Greening in the Gan River Basin, China. Water (Switzerland), 2019, 11, 2568.	2.7	8
204	Effects of stocking and supplementation rates on the performance of beef steers grazing mixed-grass prairie during the winter. Applied Animal Science, 2019, 35, 641-651.	1.2	2
205	Combining Contemporary and Paleoecological Perspectives for Estimating Forest Resilience. Frontiers in Forests and Global Change, 2019, 2, .	2.3	4
206	Critical Zone Water Balance Over 13ÂYears in a Semiarid Savanna. Water Resources Research, 2019, 55, 574-588.	4.2	49
207	Developing good practice guidance for estimating land degradation in the context of the United Nations Sustainable Development Goals. Environmental Science and Policy, 2019, 92, 349-355.	4.9	81
208	Coupled estimation of 500â€¯m and 8-day resolution global evapotranspiration and gross primary production in 2002â€“2017. Remote Sensing of Environment, 2019, 222, 165-182.	11.0	389
209	Longâ€term water balance partitioning explained by physical and ecological characteristics in world river basins. Ecohydrology, 2019, 12, e2072.	2.4	8
210	Satellite-observed vegetation stability in response to changes in climate and total water storage in Central Asia. Science of the Total Environment, 2019, 659, 862-871.	8.0	58
211	Impacts of climate change and human activities on grassland vegetation variation in the Chinese Loess Plateau. Science of the Total Environment, 2019, 660, 236-244.	8.0	236
212	Tree resilience to drought increases in the Tibetan Plateau. Global Change Biology, 2019, 25, 245-253.	9.5	85
213	Functional syndromes as indicators of ecosystem change in temperate grasslands. Ecological Indicators, 2019, 96, 600-610.	6.3	8
214	Groundwater vulnerability in Europe under climate change. Quaternary International, 2020, 547, 185-196.	1.5	17
215	Waterâ€use efficiency in a semiâ€arid woodland with high rainfall variability. Global Change Biology, 2020, 26, 496-508.	9.5	40
216	Nitrogen deposition magnifies the sensitivity of desert steppe plant communities to large changes in precipitation. Journal of Ecology, 2020, 108, 598-610.	4.0	41
217	Effect of Plasma Protein Binding on the Pharmacokinetics of Erdafitinib: Results of an Integrated Crossâ€Study Analysis. Journal of Clinical Pharmacology, 2020, 60, 391-399.	2.0	4

#	Article	IF	Citations
218	Unraveling the sensitivity and nonlinear response of water use efficiency to the waterâ€“energy balance and underlying surface condition in a semiarid basin. Science of the Total Environment, 2020, 699, 134405.	8.0	14
219	Increased carbon uptake and water use efficiency in global semi-arid ecosystems. Environmental Research Letters, 2020, 15, 034022.	5.2	40
220	Responses of Water Use Efficiency to Drought in Southwest China. Remote Sensing, 2020, 12, 199.	4.0	45
221	Estimation of Global Grassland Net Ecosystem Carbon Exchange Using a Model Tree Ensemble Approach. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005034.	3.0	16
222	Severe drought events inducing large decrease of net primary productivity in mainland China during 1982â€“2015. Science of the Total Environment, 2020, 703, 135541.	8.0	60
223	Sensitivity of primary production to precipitation across the United States. Ecology Letters, 2020, 23, 527-536.	6.4	109
224	Legacy effects of precipitation amount and frequency on the aboveground plant biomass of a semi-arid grassland. Science of the Total Environment, 2020, 705, 135899.	8.0	22
225	Variation in ecosystem water use efficiency along a southwest-to-northeast aridity gradient in China. Ecological Indicators, 2020, 110, 105932.	6.3	36
226	Resilience Viewed through the Lens of Climate Change and Water Management. Water (Switzerland), 2020, 12, 2510.	2.7	8
227	Effects of precipitation and temperature on precipitation use efficiency of alpine grassland in Northern Tibet, China. Scientific Reports, 2020, 10, 20309.	3.3	11
228	Plant biomes demonstrate that landscape resilience today is the lowest it has been since endâ€Pleistocene megafaunal extinctions. Global Change Biology, 2020, 26, 5914-5927.	9.5	17
229	Why Is the Terrestrial Water Storage in Dryland Regions Declining? A Perspective Based on Gravity Recovery and Climate Experiment Satellite Observations and Noah Land Surface Model With Multiparameterization Schemes Model Simulations. Water Resources Research, 2020, 56, e2020WR027102.	4.2	18
230	Topographic, soil, and climate drivers of drought sensitivity in forests and shrublands of the Pacific Northwest, USA. Scientific Reports, 2020, 10, 18486.	3.3	34
231	Enhancing the Noahâ€MP Ecosystem Response to Droughts With an Explicit Representation of Plant Water Storage Supplied by Dynamic Root Water Uptake. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002062.	3.8	32
232	Elevation dependence of drought legacy effects on vegetation greenness over the Tibetan Plateau. Agricultural and Forest Meteorology, 2020, 295, 108190.	4.8	39
233	Concurrent and Lagged Effects of Extreme Drought Induce Net Reduction in Vegetation Carbon Uptake on Tibetan Plateau. Remote Sensing, 2020, 12, 2347.	4.0	42
234	Prompt nitrogen removal by controlling the oxygen concentration in sediment microbial fuel cell systems: the electrons allocation and its microbial mechanism. Water Science and Technology, 2020, 81, 1209-1220.	2.5	6
235	Spatio-Temporal Characteristics of Drought Events and Their Effects on Vegetation: A Case Study in Southern Tibet, China. Remote Sensing, 2020, 12, 4174.	4.0	8

#	Article	IF	Citations
236	Assessing Shifts in Regional Hydroclimatic Conditions of U.S. River Basins in Response to Climate Change over the 21st Century. Earth's Future, 2020, 8, e2020EF001657.	6.3	31
238	Simulating the change of precipitation-runoff relationship during drought years in the eastern monsoon region of China. Science of the Total Environment, 2020, 723, 138172.	8.0	18
239	Impacts of preseason drought on vegetation spring phenology across the Northeast China Transect. Science of the Total Environment, 2020, 738, 140297.	8.0	43
240	Water Use Efficiencyâ€Based Multiscale Assessment of Ecohydrological Resilience to Ecosystem Shifts Over the Continent of Africa During 1992â€“2015. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005749.	3.0	10
241	Shifts in ecosystem water use efficiency on china's loess plateau caused by the interaction of climatic and biotic factors over 1985â€“2015. Agricultural and Forest Meteorology, 2020, 291, 108100.	4.8	36
242	Determinants of the Asymmetric Parameter in the Generalized Complementary Principle of Evaporation. Water Resources Research, 2020, 56, e2019WR026570.	4.2	25
243	Assessing Terrestrial Ecosystem Resilience using Satellite Leaf Area Index. Remote Sensing, 2020, 12, 595.	4.0	23
244	Reviewing the Use of Resilience Concepts in Forest Sciences. Current Forestry Reports, 2020, 6, 61-80.	7.4	89
245	Monitoring land degradation at national level using satellite Earth Observation time-series data to support SDG15 â€“ exploring the potential of data cube. Big Earth Data, 2020, 4, 3-22.	4.4	62
246	Assessment of dryness conditions according to transitional ecosystem patterns in an extremely cold region of China. Journal of Cleaner Production, 2020, 255, 120348.	9.3	34
247	Assessing the Response of Ecosystem Water Use Efficiency to Drought During and after Drought Events across Central Asia. Sensors, 2020, 20, 581.	3.8	23
248	Sun-Angle Effects on Remote-Sensing Phenology Observed and Modelled Using Himawari-8. Remote Sensing, 2020, 12, 1339.	4.0	21
250	Accelerated dryland expansion regulates future variability in dryland gross primary production. Nature Communications, 2020, 11, 1665.	12.8	158
251	Globalâ€scale characterization of turning points in arid and semiâ€arid ecosystem functioning. Global Ecology and Biogeography, 2020, 29, 1230-1245.	5.8	43
252	Land use planning in the Amazon basin: challenges from resilience thinking. Ecology and Society, 2020, 25, .	2.3	12
253	Responses of soil water storage and crop water use efficiency to changing climatic conditions: a lysimeter-based space-for-time approach. Hydrology and Earth System Sciences, 2020, 24, 1211-1225.	4.9	22
254	Divergent responses of ecosystem water-use efficiency to extreme seasonal droughts in Southwest China. Science of the Total Environment, 2021, 760, 143427.	8.0	77
255	Monitoring responses of vegetation phenology and productivity to extreme climatic conditions using remote sensing across different sub-regions of China. Environmental Science and Pollution Research, 2021, 28, 3644-3659.	5.3	13

#	Article	IF	Citations
256	Global patterns and climatic drivers of above- and belowground net primary productivity in grasslands. Science China Life Sciences, 2021, 64, 739-751.	4.9	23
257	Water balance partitioning for ecosystem service assessment. A case study in the Amazon. Ecological Indicators, 2021, 121, 107155.	6.3	20
258	Divergent forcing of water use efficiency from aridity in two meadows of the Mongolian Plateau. Journal of Hydrology, 2021, 593, 125799.	5.4	17
259	Climatic warming enhances soil respiration resilience in an arid ecosystem. Science of the Total Environment, 2021, 756, 144005.	8.0	10
260	Regionalâ€scale forest restoration effects on ecosystem resiliency to drought: a synthesis of vegetation and moisture trends on Google Earth Engine. Remote Sensing in Ecology and Conservation, 2021, 7, 259-274.	4.3	16
261	Impacts of extreme climate on Australia's green cover (2003â€“2018): A MODIS and mascon probe. Science of the Total Environment, 2021, 766, 142567.	8.0	9
262	Decline in terrestrial water recharge with increasing global temperatures. Science of the Total Environment, 2021, 764, 142913.	8.0	8
263	Lagged precipitation effect on plant productivity is influenced collectively by climate and edaphic factors in drylands. Science of the Total Environment, 2021, 755, 142506.	8.0	5
264	Climate-Induced Global Forest Shifts due to Heatwave-Drought. Ecological Studies, 2021, , 155-186.	1.2	8
265	Comprehensive Assessment Indicator of Ecosystem Resilience in Central Asia. Water (Switzerland), 2021, 13, 124.	2.7	11
266	Impacts of droughts on rainfall use efficiency in different climatic zones and land uses in Iran. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	12
267	Representativeness of FLUXNET Sites Across Latin America. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006090.	3.0	31
268	Dramatic increase in water use efficiency with cumulative forest disturbance at the large forested watershed scale. Carbon Balance and Management, 2021, 16, 6.	3.2	5
269	Moderately prolonged dry intervals between precipitation events promote production in Leymus chinensis in a semi-arid grassland of Northeast China. BMC Plant Biology, 2021, 21, 147.	3.6	5
270	Quantifying the Dimensionalities and Drivers of Ecosystem Stability at Global Scale. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006041.	3.0	11
271	Divergent responses of ecosystem water use efficiency to drought timing over Northern Eurasia. Environmental Research Letters, 2021, 16, 045016.	5.2	19
272	Tropical dry forest resilience and water use efficiency: an analysis of productivity under climate change. Environmental Research Letters, 2021, 16, 054027.	5.2	7
273	Assessment of Rangeland Degradation in New Mexico Using Time Series Segmentation and Residual Trend Analysis (TSS-RESTREND). Remote Sensing, 2021, 13, 1618.	4.0	12

#	Article	IF	Citations
274	Drought Variability over the Conterminous United States for the Past Century. Journal of Hydrometeorology, 2021, 22, 1153-1168.	1.9	16
275	The sensitivity of vegetation cover to climate change in multiple climatic zones using machine learning algorithms. Ecological Indicators, 2021, 124, 107443.	6.3	26
276	Drought Affected Ecosystem Water Use Efficiency of a Natural Oak Forest in Central China. Forests, 2021, 12, 839.	2.1	6
277	Shifts in hydroclimatology of US megaregions in response to climate change. Environmental Research Communications, 2021, 3, 065002.	2.3	10
278	Drought Risk of Global Terrestrial Gross Primary Productivity Over the Last 40ÂYears Detected by a Remote Sensingâ€Driven Process Model. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005944.	3.0	33
279	Annual precipitation explains variability in dryland vegetation greenness globally but not locally. Global Change Biology, 2021, 27, 4367-4380.	9.5	44
280	AlteraÃ§Ãµes na eficiÃªncia do uso da Ã¡gua relacionadas com fatores climÃ¡ticos e uso e ocupaÃ§Ã£o do solo, na regiÃ£o do MATOPIBA. Research, Society and Development, 2021, 10, e3010917891.	0.1	1
281	Is the grass always greener? Land surface phenology reveals differences in peak and seasonâ€long vegetation productivity responses to climate and management. Ecology and Evolution, 2021, 11, 11168-11199.	1.9	7
282	Strong impacts of autumn phenology on grassland ecosystem water use efficiency on the Tibetan Plateau. Ecological Indicators, 2021, 126, 107682.	6.3	25
283	Ecosystem water use efficiency response to drought over southwest China. Ecohydrology, 2022, 15, e2317.	2.4	10
284	Evaluating global ecosystem water use efficiency response to drought based on multi-model analysis. Science of the Total Environment, 2021, 778, 146356.	8.0	39
285	Monitoring the Responses of Deciduous Forest Phenology to 2000â€“2018 Climatic Anomalies in the Northern Hemisphere. Remote Sensing, 2021, 13, 2806.	4.0	4
286	Vegetation resistance and resilience to a decadeâ€long dry period in the temperate grasslands in China. Ecology and Evolution, 2021, 11, 10582-10589.	1.9	13
287	The complex drought effects associated with the regulation of water-use efficiency in a temperate water-limited basin. Journal of Hydrology: Regional Studies, 2021, 36, 100864.	2.4	2
288	The accuracy of temporal upscaling of instantaneous evapotranspiration to daily values with seven upscaling methods. Hydrology and Earth System Sciences, 2021, 25, 4417-4433.	4.9	12
289	The effects of ecological rehabilitation projects on the resilience of an extremely drought-prone desert riparian forest ecosystem in the Tarim River Basin, Xinjiang, China. Scientific Reports, 2021, 11, 18485.	3.3	20
290	Percolation-based health management of complex traffic systems. Frontiers of Engineering Management, 2021, 8, 557-571.	6.1	20
291	Drought Resilience Debt Drives NPP Decline in the Amazon Forest. Global Biogeochemical Cycles, 2021, 35, e2021GB007004.	4.9	12

#	Article	IF	Citations
292	Regulation of Vegetation and Evapotranspiration by Water Level Fluctuation in Shallow Lakes. Water (Switzerland), 2021, 13, 2651.	2.7	2
293	Influence of Grazing Season, Residual Herbage, and Precipitation on Rumen Extrusa Diet Quality. Rangeland Ecology and Management, 2021, 78, 117-126.	2.3	2
294	Trade-off between carbon sequestration and water loss for vegetation greening in China. Agriculture, Ecosystems and Environment, 2021, 319, 107522.	5.3	25
295	Long-term effects of nitrogen deposition on carbon assimilation characteristics in the past three decades in a typical subtropical watershed. Agricultural and Forest Meteorology, 2021, 308-309, 108561.	4.8	0
296	Spatiotemporal variability of ecosystem water use efficiency in northern Ethiopia during 1982â€“2014. Journal of Hydrology, 2021, 603, 126863.	5.4	12
297	Drivers of the water use efficiency changes in China during 1982â€“2015. Science of the Total Environment, 2021, 799, 149145.	8.0	36
298	Response of net reduction rate in vegetation carbon uptake to climate change across a unique gradient zone on the Tibetan Plateau. Environmental Research, 2022, 203, 111894.	7.5	20
299	The divergent response of vegetation phenology to urbanization: A case study of Beijing city, China. Science of the Total Environment, 2022, 803, 150079.	8.0	30
300	Change of nutrients, microorganisms, and physical properties of exposed extensive green roof substrate. Science of the Total Environment, 2022, 805, 150344.	8.0	8
301	Ecological Consequences of Climate Change on Rangelands. Springer Series on Environmental Management, 2017, , 229-260.	0.3	14
302	The collapse points of increasing trend of vegetation rain-use efficiency under droughts. Environmental Research Letters, 2020, 15, 104072.	5.2	8
303	Assessment of cross-sensor vegetation index compatibility between VIIRS and MODIS using near-coincident observations. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	8
304	Disentangling the Effects of Precipitation Amount and Frequency on the Performance of 14 Grassland Species. PLoS ONE, 2016, 11, e0162310.	2.5	35
305	Quantitative assessments of water-use efficiency in Temperate Eurasian Steppe along an aridity gradient. PLoS ONE, 2017, 12, e0179875.	2.5	23
306	Water balance changes in response to climate change in the upper Hailar River Basin, China. Hydrology Research, 2020, 51, 1023-1035.	2.7	6
307	Variations in diurnal and seasonal net ecosystem carbon dioxide exchange in a semiarid sandy grassland ecosystem in China's Horqin Sandy Land. Biogeosciences, 2020, 17, 6309-6326.	3.3	13
312	Ecological Effect of Ecological Engineering Projects on Low-Temperature Forest Cover in Great Khingan Mountain, China. International Journal of Environmental Research and Public Health, 2021, 18, 10625.	2.6	7
313	Carbon fluxes and environmental controls across different alpine grassland types on the Tibetan Plateau. Agricultural and Forest Meteorology, 2021, 311, 108694.	4.8	18

#	Article	IF	Citations
316	CLIMATE WARMING: DOES NORTHWEST CHINA FACE A STARK FOOD SECURITY CHALLENGE?. Applied Ecology and Environmental Research, 2016, 14, 613-636.	0.5	2
317	DefiniÃ§Ãµes e aplicaÃ§Ãµes da resiliÃªncia na ciÃªncia geogrÃ¡fica. Revista Do Departamento De Geografia, 0, 39, 1-13.	0.0	0
318	Spatiotemporal Analysis of Evapotranspiration and Effects of Water and Heat on Water Use Efficiency. Water (Switzerland), 2021, 13, 3019.	2.7	7
319	Diverse Roles of Previous Yearsâ€™ Water Conditions in Gross Primary Productivity in China. Remote Sensing, 2021, 13, 58.	4.0	9
320	The lagged effect and impact of soil moisture drought on terrestrial ecosystem water use efficiency. Ecological Indicators, 2021, 133, 108349.	6.3	25
322	Land surface models significantly underestimate the impact of land-use changes on global evapotranspiration. Environmental Research Letters, 2021, 16, 124047.	5.2	3
323	Water-Use Efficiency of Co-occurring Sky-Island Pine Species in the North American Great Basin. Frontiers in Plant Science, 2021, 12, 787297.	3.6	3
324	Advancements in the satellite sensing of the impacts of climate and variability on bush encroachment in savannah rangelands. Remote Sensing Applications: Society and Environment, 2022, 25, 100689.	1.5	1
325	Biotic effects dominate the inter-annual variability in ecosystem carbon exchange in a Tibetan alpine meadow. Journal of Plant Ecology, 2022, 15, 882-896.	2.3	6
326	The role of groundwater in the spatio-temporal variations of vegetation water use efficiency in the Ordos Plateau, China. Journal of Hydrology, 2022, 605, 127332.	5.4	9
327	Soil moisture as an essential component for delineating and forecasting agricultural rather than meteorological drought. Remote Sensing of Environment, 2022, 269, 112833.	11.0	31
328	The last continuous grasslands on Earth: Identification and conservation importance. Conservation Science and Practice, 2022, 4, .	2.0	34
329	Climate Drives Modeled Forest Carbon Cycling Resistance and Resilience in the Upper Great Lakes Region, USA. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	4
330	Soil development mediates precipitation control on plant productivity and diversity in alpine grasslands. Geoderma, 2022, 412, 115721.	5.1	14
331	Effects of Vegetation Phenology on Ecosystem Water Use Efficiency in a Semiarid Region of Northern China. SSRN Electronic Journal, 0, , .	0.4	0
332	Climate Change Affects Crop Production Potential in Semi-Arid Regions: A Case Study in Dingxi, Northwest China, in Recent 30 Years. Sustainability, 2022, 14, 3578.	3.2	11
333	Bridge to the future: Important lessons from 20Âyears of ecosystem observations made by the OzFlux network. Global Change Biology, 2022, 28, 3489-3514.	9.5	14
334	The Importance of Stem Photosynthesis for Two Desert Shrubs Across Different Groundwater Depths. Frontiers in Plant Science, 2022, 13, 804786.	3.6	2

#	Article	IF	Citations
335	Variability in evapotranspiration shifts from meteorological to biological control under wet versus drought conditions in an alpine meadow. Journal of Plant Ecology, 2022, 15, 921-932.	2.3	7
336	Contributions of climate, elevated atmospheric CO2 concentration and land surface changes to variation in water use efficiency in Northwest China. Catena, 2022, 213, 106220.	5.0	30
337	Variation and adaptation of leaf water content among species, communities, and biomes. Environmental Research Letters, 2021, 16, 124038.	5.2	2
338	Growth, weights, and measurements of female wild sheep from Iran. Mammalia, 2022, 86, 171-181.	0.7	1
339	Vegetation in Arid Areas of the Loess Plateau Showed More Sensitivity of Water-Use Efficiency to Seasonal Drought. Forests, 2022, 13, 634.	2.1	3
340	Estimating land evapotranspiration from potential evapotranspiration constrained by soil water at daily scale. Science of the Total Environment, 2022, 834, 155327.	8.0	10
341	Convergence in water use efficiency within plant functional types across contrasting climates. Nature Plants, 2022, 8, 341-345.	9.3	14
342	The Variability of Stable Water Isotopes and the Young Water Fraction in a Mountainous Catchment. Clean - Soil, Air, Water, 2022, 50, .	1.1	2
346	Grassland-based ruminant farming systems in China: Potential, challenges and a way forward. Animal Nutrition, 2022, 10, 243-248.	5.1	3
347	Spatial and Temporal Drought Characteristics in the Huanghuaihai Plain and Its Influence on Cropland Water Use Efficiency. Remote Sensing, 2022, 14, 2381.	4.0	6
348	Centennial Annual Rainfall Pattern Changes Show an Increasing Trend with Higher Variation over Northern Australia. Journal of Hydrometeorology, 2022, 23, 1333-1349.	1.9	6
349	Climate change enhances the positive contribution of human activities to vegetation restoration in China. Geocarto International, 2022, 37, 13479-13499.	3.5	10
350	Global exacerbation of episodic local vegetation greenness decline since the 21st century. Science of the Total Environment, 2022, 840, 156411.	8.0	2
351	Beyond the SDG 15.3.1 Good Practice Guidance 1.0 using the Google Earth Engine platform: developing a self-adjusting algorithm to detect significant changes in water use efficiency and net primary production. Big Earth Data, 2023, 7, 59-80.	4.4	6
352	Land Use Dynamic Changes in an Arid Inland River Basin Based on Multi-Scenario Simulation. Remote Sensing, 2022, 14, 2797.	4.0	15
353	Quantitative assessment of the relative contributions of climate change and human activities to NPP changes in the Southwest Karst area of China. Environmental Science and Pollution Research, 2022, 29, 80597-80611.	5.3	12
354	A novel multi-model fusion framework diagnoses the complex variation characteristics of ecological indicators and quantitatively reveals their driving mechanism. Journal of Environmental Management, 2022, 318, 115592.	7.8	3
355	Resistance and Resilience of Desert Riparian Communities to Extreme Droughts. Forests, 2022, 13, 1032.	2.1	3

#	Article	IF	Citations
356	Effects of Vegetation Phenology on Ecosystem Water Use Efficiency in a Semiarid Region of Northern China. Frontiers in Plant Science, 0, 13, .	3.6	5
357	Contrasting Trends in Water Use Efficiency of the Alpine Grassland in Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	12
358	Interactions of Environmental Variables and Water Use Efficiency in the Matopiba Region via Multivariate Analysis. Sustainability, 2022, 14, 8758.	3.2	3
359	Spatiotemporal Variability in Water-Use Efficiency in Tianshan Mountains (Xinjiang, China) and the Influencing Factors. Sustainability, 2022, 14, 8191.	3.2	5
360	Untangling the effects of climate change and land use/cover change on spatiotemporal variation of evapotranspiration over China. Journal of Hydrology, 2022, 612, 128189.	5.4	16
361	Towards SDG 15.3: The biome context as the appropriate degradation monitoring dimension. Environmental Science and Policy, 2022, 136, 400-412.	4.9	5
362	Divergent dynamics between grassland greenness and gross primary productivity across China. Ecological Indicators, 2022, 142, 109100.	6.3	5
363	Variation in Vegetation and Its Driving Force in the Pearl River Delta Region of China. International Journal of Environmental Research and Public Health, 2022, 19, 10343.	2.6	7
364	Influences of drought on the stability of an alpine meadow ecosystem. Ecosystem Health and Sustainability, 2022, 8, .	3.1	5
365	Divergent effects of climate change on cropland ecosystem water use efficiency at different elevations in southwestern China. Journal of Chinese Geography, 2022, 32, 1601-1614.	3.9	4
366	Vegetation restoration dominated the variation of water use efficiency in China. Journal of Hydrology, 2022, 612, 128257.	5.4	25
367	Archaeal lipids in soils and sediments: Water impact and consequences for microbial carbon sequestration. Soil Biology and Biochemistry, 2022, 173, 108801.	8.8	4
368	Water use efficiency-based assessment of risk to terrestrial ecosystems in China under global warming targets of 1.5ÂÂ°C and 2.0ÂÂ°C. Ecological Indicators, 2022, 143, 109349.	6.3	2
369	Resistance of grassland productivity to hydroclimatic changes in the Tibetan Plateau. Ecological Indicators, 2022, 143, 109351.	6.3	4
370	Basin management inspiration from impacts of alternating dry and wet conditions on water production and carbon uptake in Murray-Darling Basin. Science of the Total Environment, 2022, 851, 158359.	8.0	3
371	Increased carbon assimilation and efficient water usage may not compensate for carbon loss in European forests. Communications Earth & Environment, 2022, 3, .	6.8	8
372	Antecedent climatic conditions spanning several years influence multiple land-surface phenology events in semi-arid environments. Frontiers in Ecology and Evolution, 0, 10, .	2.2	2
373	Soil moisture stability of rangeland is higher than that of woodland and cropland in the Loess Plateau, China. Ecological Indicators, 2022, 144, 109543.	6.3	5

#	Article	IF	Citations
374	Characterizing the Turning Points in Ecosystem Functioning and Their Linkages to Drought and Human Activities over the Arid and Semi-Arid Regions of Northern China. Remote Sensing, 2022, 14, 5396.	4.0	0
375	Vegetation Productivity and Precipitation Use Efficiency across the Yellow River Basin: Spatial Patterns and Controls. Remote Sensing, 2022, 14, 5074.	4.0	11
376	Net Primary Productivity Changes of Landslides Induced by the 2008 Wenchuan Earthquake. Land Degradation and Development, 0, , .	3.9	1
377	Precipitation increase counteracts warming effects on plant and soil C:N:P stoichiometry in an alpine meadow. Frontiers in Plant Science, 0, 13, .	3.6	12
378	Productivity and water use efficiency of Pinus tabulaeformis responses to climate change in the temperate monsoon region. Agricultural and Forest Meteorology, 2022, 327, 109188.	4.8	3
379	Recovery of macrobenthic communities in tidal flats following the Great East Japan Earthquake. Limnology and Oceanography Letters, 2023, 8, 473-480.	3.9	2
380	Changes in Water Use Efficiency Caused by Climate Change, CO2 Fertilization, and Land Use Changes on the Tibetan Plateau. Advances in Atmospheric Sciences, 2023, 40, 144-154.	4.3	5
381	Contributory factors of the secular trends to changes in ecosystem water-use efficiency in China. Journal of Hydrology, 2022, 615, 128690.	5.4	5
382	Remote sensing-based multi-scale characterization of ecohydrological indicators (EHIs) in India. Ecological Engineering, 2023, 187, 106841.	3.6	4
383	Assessment of water and carbon use efficiency in the SAARC region for ecological resilience under changing climate. Journal of Environmental Management, 2023, 326, 116812.	7.8	5
384	Accuracy of methods for simulating daily water surface evaporation evaluated by the eddy covariance measurement at boreal flux sites. Journal of Hydrology, 2023, 616, 128776.	5.4	1
385	Variability of Water Use Efficiency Associated with Climate Change in the Extreme West of Bahia. Sustainability, 2022, 14, 16004.	3.2	1
386	Application of feedback control to stomatal optimisation in a global land surface model. Frontiers in Environmental Science, 0, 10, .	3.3	2
387	Riparian Plant Evapotranspiration and Consumptive Use for Selected Areas of the Little Colorado River Watershed on the Navajo Nation. Remote Sensing, 2023, 15, 52.	4.0	1
388	Responses of the Remote Sensing Drought Index with Soil Information to Meteorological and Agricultural Droughts in Southeastern Tibet. Remote Sensing, 2022, 14, 6125.	4.0	4
389	Evaluation of remotely sensed global evapotranspiration data from inland river basins. Hydrological Processes, 2022, 36, .	2.6	4
391	Accuracy of five ground heat flux empirical simulation methods in the surface-energy-balance-based remote-sensing evapotranspiration models. Hydrology and Earth System Sciences, 2022, 26, 6207-6226.	4.9	1
392	Spatiotemporal dynamic of subtropical forest carbon storage and its resistance and resilience to drought in China. Frontiers in Plant Science, 0, 14, .	3.6	3

#	Article	IF	Citations
393	Land Use Transition and Its Ecosystem Resilience Response in China during 1990â€“2020. Land, 2023, 12, 141.	2.9	4
394	Vegetation cover variations associated with climate change and human activities in Nanjing metropolitan area of China. Environmental Science and Pollution Research, 2023, 30, 38535-38549.	5.3	2
396	Hyposensitive canopy conductance renders ecosystems vulnerable to meteorological droughts. Global Change Biology, 0, , .	9.5	1
397	Contrasting response of water use efficiency to soil moisture availability: From leaf to ecosystem in an arid oasis. Ecological Indicators, 2023, 147, 109964.	6.3	2
398	Light use efficiency models incorporating diffuse radiation impacts for simulating terrestrial ecosystem gross primary productivity: A global comparison. Agricultural and Forest Meteorology, 2023, 332, 109376.	4.8	3
399	The change of ecosystem resilience and its response to economic factors in Yulin, China. Environmental Research Communications, 2023, 5, 045006.	2.3	1
400	Spatiotemporal variability and controlling factors of ecosystem water use efficiency in India. Theoretical and Applied Climatology, 2023, 152, 813-827.	2.8	0
401	Monitoring of Land Degradation in Greece and Tunisia Using Trends.Earth with a Focus on Cereal Croplands. Remote Sensing, 2023, 15, 1766.	4.0	1
402	Drought-induced vulnerability and resilience of different land use types using time series of MODIS-based indices. International Journal of Disaster Risk Reduction, 2023, 91, 103703.	3.9	4
403	Simple and Innovative Methods to Estimate Gross Primary Production and Transpiration of Crops: A Review. Studies in Big Data, 2023, , 125-156.	1.1	1
404	Evaluating climate change effects on hydrological functionality and waterâ€related ecosystem services. Ecohydrology, 0, , .	2.4	0
405	Water use efficiency at multi-time scales and its response to episodic drought and wet periods in a typical subtropical evergreen forest of Southeast China. Ecological Indicators, 2023, 151, 110254.	6.3	2
406	Improving Carbon Sequestration Capacity of Forest Vegetation in China: Afforestation or Forest Management?. Forests, 2023, 14, 1077.	2.1	2
407	Characteristics of the Water Consumption Components of Winter Wheat Fields and Their Effects on the Loess Plateau under Climate Change: An Example at Xifeng Station, Gansu, China. Sustainability, 2023, 15, 8995.	3.2	0
408	Ecosystem Resistance and Resilience after Dry and Wet Events across Central Asia Based on Remote Sensing Data. Remote Sensing, 2023, 15, 3165.	4.0	3
409	Risk probability assessment of winter wheat net primary productivity loss and its driving factors in North China Plain. Field Crops Research, 2023, 300, 109013.	5.1	1
411	Limited Evidence of Cumulative Effects From Recurrent Droughts in Vegetation Responses to Australia's Millennium Drought. Journal of Geophysical Research G: Biogeosciences, 2023, 128, .	3.0	1
412	The responses of ecosystem water use efficiency to CO2, nitrogen deposition, and climatic drivers across China. Journal of Hydrology, 2023, 622, 129696.	5.4	5

#	Article	IF	Citations
413	Hydraulic safety and growth rather than climate of origin influence survival in desert shrubs and trees. Forest Ecology and Management, 2023, 543, 121130.	3.2	2
414	Temporal dynamics of ecosystem, inherent, and underlying water use efficiencies of forests, grasslands, and croplands and their responses to climate change. Carbon Balance and Management, 2023, 18, .	3.2	2
416	Leaf physiological and morphological constraints of water-use efficiency in C3 plants. AoB PLANTS, 2023, 15, .	2.3	4
417	CaracterizaciÃ³n del estado de los ecosistemas terrestres a travÃ©s de las variaciones interanuales de RUE (Rain Use Efficiency). Revista De Teledeteccion, 2023, , 71-88.	0.6	0
418	Drought conditions, aridity and forest structure control the responses of Iberian holm oak woodlands to extreme droughts: A large-scale remote-sensing exploration in eastern Spain. Science of the Total Environment, 2023, 901, 165887.	8.0	4
419	Spatiotemporal Variation of Vegetation Water Use Efficiency and Its Response to Extreme Climate in Northwestern Sichuan Plateau. Sustainability, 2023, 15, 11786.	3.2	0
421	Investigating spatial and temporal trend of groundwater quality in relation to water balance in 2007â€“2017: a case study of Chaharmahal va Bakhtiari Province, Iran. Applied Water Science, 2023, 13, .	5.6	0
422	Shifts bidirectional dependency between vegetation greening and soil moisture over the past four decades in China. Science of the Total Environment, 2023, 897, 166388.	8.0	3
423	The non-uniform time-lag and cumulative responses of terrestrial ecosystem water use efficiency to climate change in Lake Victoria Basin, East Africa. Journal of Hydrology, 2023, 625, 130081.	5.4	0
424	Community forestry dominates the recent land greening amid climate change in Nepal. Environmental Research Letters, 2023, 18, 104014.	5.2	0
425	Recent change in ecosystem water use efficiency in China mainly dominated by vegetation greening and increased CO2. Remote Sensing of Environment, 2023, 298, 113811.	11.0	2
426	A comparison of annual streamflow sensitivities to vegetation change and climate variability in fourteen large watersheds along climate zones in China. Catena, 2024, 234, 107571.	5.0	1
427	Significant influences of extreme climate on autumn phenology in Central Asia grassland. Ecological Indicators, 2023, 155, 111056.	6.3	1
428	Regulation of biophysical drivers on carbon and water fluxes over a warm-temperate plantation in northern China. Science of the Total Environment, 2024, 907, 167408.	8.0	0
429	Warming, rather than drought, remains the primary factor limiting carbon sequestration. Science of the Total Environment, 2023, , 167755.	8.0	0
430	Bidirectional dependency between vegetation and terrestrial water storage in China. Journal of Hydrology, 2023, 626, 130313.	5.4	0
431	Drought-induced resource use efficiency responses in an alpine meadow ecosystem of northern Tibet. Agricultural and Forest Meteorology, 2023, 342, 109745.	4.8	1
432	Spatial variations in water use efficiency across global terrestrial ecosystems. Catena, 2024, 235, 107670.	5.0	0

#	Article	IF	Citations
433	Temporal dynamics of steppe plant communities. IOP Conference Series: Earth and Environmental Science, 2023, 1254, 012022.	0.3	1
434	Impacts of Extreme Droughts on Ecosystem Water Use Efficiency Diverge between Forest and Grassland. Journal of Meteorological Research, 2023, 37, 710-721.	2.4	0
435	Landscape Ecological Risk Assessment of Kriya River Basin in Xinjiang and Its Multi-Scenario Simulation Analysis. Water (Switzerland), 2023, 15, 4256.	2.7	0
436	Greening and Water Use Efficiency during a period of high frequency of droughts in the Brazilian semi-arid. Frontiers in Water, 0, 5, .	2.3	0
437	Where are the critical points of water transfer impact on grain production from the middle route of the south-to-north water diversion project?. Journal of Cleaner Production, 2024, 436, 140465.	9.3	0
440	Persistent greening against drying in northeast Asian semiarid grasslands: Asymmetrical responses of direct and legacy effects to intensified drought. Advances in Climate Change Research, 2024, 15, 9-20.	5.1	0
441	Combating land degradation through human efforts: Ongoing challenges for sustainable development of global drylands. Journal of Environmental Management, 2024, 354, 120254.	7.8	0
442	Resilience of an Urban Coastal Ecosystem in the Caribbean: A Remote Sensing Approach in Western Puerto Rico. Earth, 2024, 5, 72-89.	2.2	0
443	Predicting tipping points of vegetation resilience as a response to precipitation: Implications for understanding impacts of climate change in India. Biodiversity and Conservation, 0, , .	2.6	0
444	Divergent growth and responses of conifer and broad-leaved trees to warming-drying climate in a semi-arid region, northern China. European Journal of Forest Research, 0, , .	2.5	0
445	Satellite observed dryland greening in Asian endorheic basins: Drivers and implications to sustainable development. Science of the Total Environment, 2024, 922, 171216.	8.0	0
446	Spatial and temporal variations of ecosystem water use efficiency and its response to soil moisture drought in a water-limited watershed of northern China. Journal of Environmental Management, 2024, 355, 120251.	7.8	0
447	The Contributions of Climate and Human Activities to Water Use Efficiency in Chinaâ€™s Drylands. Forests, 2024, 15, 528.	2.1	0
448	Wetness severity increases abrupt shifts in ecosystem functioning in arid savannas. Global Change Biology, 2024, 30, .	9.5	0
449	Vegetation cover dynamics and its constraint effect on ecosystem services on the Qinghai-Tibet Plateau under ecological restoration projects. Journal of Environmental Management, 2024, 356, 120535.	7.8	0
450	Positive asymmetric responses indicate larger carbon sink with increase in precipitation variability in global terrestrial ecosystems. , 2024, 2, 100060.		0