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## The impacts of climate change on water resources and agriculture in China

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1662	Simulating climate change impacts and potential adaptations on rice yields in the Sichuan Basin, China. <b>2017</b> , 22, 565-594	14
1661	Quantifying the changing properties of climate extremes in Guangdong Province using individual and integrated climate indices. <b>2017</b> , 37, 781-792	13
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1651	Trend analysis of temperature and precipitation extremes in major grain producing area of China. <b>2017</b> , 37, 672-687	28
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1645	Identifying separate impacts of climate and land use/cover change on hydrological processes in upper stream of Heihe River, Northwest China. <b>2017</b> , 31, 1100-1112	81
1644	Mapping cropping intensity trends in China during 1982-2013. <b>2017</b> , 79, 212-222	34
1643	Evaluation of low impact development approach for mitigating flood inundation at a watershed scale in China. <b>2017</b> , 193, 430-438	67
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1622	Projective analysis of staple food crop productivity in adaptation to future climate change in China. <b>2017</b> , 61, 1445-1460	17
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1468	Water and Land Effects on Agricultural Development for River Basin: Resource Restriction and Sustainable Development. <b>2018</b> , 1-31	
1467	Average Amount and Stability of Available Agro-Climate Resources in the Main Maize Cropping Regions in China during 1981-2010. <b>2018</b> , 32, 146-156	13
1466	Phylogenetic and Functional Structure of Wintering Waterbird Communities Associated with Ecological Differences. <b>2018</b> , 8, 1232	5

1465	Effects of drought and flood on crop production in China across 1949-2015: spatial heterogeneity analysis with Bayesian hierarchical modeling. <b>2018</b> , 92, 525-541	24
1464	Drying tendency dominating the global grain production area. <b>2018</b> , 16, 138-149	43
1463	Evaluation of the significance of abrupt changes in precipitation and runoff process in China. <b>2018</b> , 560, 451-460	14
1462	Harvested area gaps in China between 1981 and 2010: effects of climatic and land management factors. <b>2018</b> , 13, 044006	14
1461	Change in Intensity and Frequency of Extreme Precipitation and its Possible Teleconnection With Large-Scale Climate Index Over the China From 1960 to 2015. <b>2018</b> , 123, 2068-2081	37
1460	Experimental warming enhances the carbon gain but does not affect the yield of maize ( <i>Zea mays</i> L.) in the North China Plain. <b>2018</b> , 240, 152-163	7
1459	Modeling aquifer behaviour under climate change and high consumption: Case study of the Sfax region, southeast Tunisia. <b>2018</b> , 141, 118-129	9
1458	Selenium distribution in the Chinese environment and its relationship with human health: A review. <b>2018</b> , 112, 294-309	158
1457	Monitoring dynamics and driving forces of lake changes in different seasons in Xinjiang using multi-source remote sensing. <b>2018</b> , 51, 150-165	9
1456	Climate-Change Journalism and Edgeball Politics in Contemporary China. <b>2018</b> , 31, 541-555	9
1455	Global environmental costs of China's thirst for milk. <b>2018</b> , 24, 2198-2211	32
1454	Irrigation enhances local warming with greater nocturnal warming effects than daytime cooling effects. <b>2018</b> , 13, 024005	24
1453	Asian droughts in the last millennium: a search for robust impacts of Pacific Ocean surface temperature variabilities. <b>2018</b> , 50, 4671-4689	11
1452	Detection of spatio-temporal variability of air temperature and precipitation based on long-term meteorological station observations over Tianshan Mountains, Central Asia. <b>2018</b> , 203, 141-163	98
1451	Effective use rate of generalized water resources assessment and to improve agricultural water use efficiency evaluation index system. <b>2018</b> , 86, 58-66	26
1450	The influence of climate change and human activities on runoff in the middle reaches of the Huaihe River Basin, China. <b>2018</b> , 28, 79-92	13
1449	Current water uses, related risks, and management options for Seoul megacity, Korea. <b>2018</b> , 77, 1	13
1448	Climate change enhances the severity and variability of drought in the Pearl River Basin in South China in the 21st century. <b>2018</b> , 249, 149-162	91

1447	Water metabolism in the socio-economic system. <b>2018</b> , 287-300	
1446	Effect of <i>Epichloa gansuensis</i> endophyte and transgenerational effects on the water use efficiency, nutrient and biomass accumulation of <i>Achnatherum inebrians</i> under soil water deficit. <b>2018</b> , 424, 555-571	37
1445	Modelling maize phenology, biomass growth and yield under contrasting temperature conditions. <b>2018</b> , 250-251, 319-329	35
1444	The Influence of Meteorological Factors on Wheat and Rice Yields in China. <b>2018</b> , 58, 837-852	8
1443	Effects of field experimental warming on wheat root distribution under conventional tillage and no-tillage systems. <b>2018</b> , 8, 2418-2427	3
1442	Heat and Adult Health in China. <b>2018</b> , 40, 1-26	5
1441	Water footprint characteristic of less developed water-rich regions: Case of Yunnan, China. <b>2018</b> , 141, 208-216	34
1440	Multi-decadal spatial and temporal changes of extreme precipitation patterns in northern China (Jing-Jin-Ji district, 1960-2013). <b>2018</b> , 476, 1-13	21
1439	Bias Correction of Historical and Future Simulations of Precipitation and Temperature for China from CMIP5 Models. <b>2018</b> , 19, 609-623	34
1438	Spatial scale affects the relative role of stochasticity versus determinism in soil bacterial communities in wheat fields across the North China Plain. <b>2018</b> , 6, 27	152
1437	Review of Rapid Transformation of Floodplain Wetlands in Northeast China: Roles of Human Development and Global Environmental Change. <b>2018</b> , 28, 654-664	19
1436	Response of the groundwater system in the Guanzhong Basin (central China) to climate change and human activities. <b>2018</b> , 26, 1429-1441	29
1435	Is terrestrial water storage a useful indicator in assessing the impacts of climate variability on crop yield in semi-arid ecosystems?. <b>2018</b> , 88, 51-62	21
1434	Impact assessment of climate change on rice yields using the ORYZA model in the Sichuan Basin, China. <b>2018</b> , 38, 2922-2939	12
1433	Impacts of climate change on reference evapotranspiration in the Qilian Mountains of China: Historical trends and projected changes. <b>2018</b> , 38, 2980-2993	25
1432	Circulation pattern-based assessment of projected climate change for a catchment in Spain. <b>2018</b> , 556, 944-960	2
1431	Changes identification of the Three Gorges reservoir inflow and the driving factors quantification. <b>2018</b> , 475, 28-41	10
1430	The new ecological paradigm and responses to climate change in China. <b>2018</b> , 21, 323-339	12

1429	Emulating mean patterns and variability of temperature across and within scenarios in anthropogenic climate change experiments. <b>2018</b> , 146, 319-333	15
1428	Attribution analysis of runoff decline in a semiarid region of the Loess Plateau, China. <b>2018</b> , 131, 845-855	21
1427	Impact of GCM structure uncertainty on hydrological processes in an arid area of China. <b>2018</b> , 49, 893-907	19
1426	Spatiotemporal changes in vegetation net primary productivity in the arid region of Northwest China, 2001 to 2012. <b>2018</b> , 12, 108-124	18
1425	Error features of the hourly GSMaP multi-satellite precipitation estimates over nine major basins of China. <b>2018</b> , 49, 761-779	14
1424	Bayesian maximum entropy approach and its applications: a review. <b>2018</b> , 32, 859-877	35
1423	Moisture sources of the Chinese Loess Plateau during 1979-2009. <b>2018</b> , 509, 156-163	9
1422	Trends and periodicity of daily temperature and precipitation extremes during 1960-2013 in Hunan Province, central south China. <b>2018</b> , 132, 71-88	12
1421	The new concept of water resources management in China: ensuring water security in changing environment. <b>2018</b> , 20, 897-909	29
1420	Daily extreme precipitation indices and their impacts on rice yield: A case study over the tropical island in China. <b>2018</b> , 132, 503-513	3
1419	Multi-criterion model ensemble of CMIP5 surface air temperature over China. <b>2018</b> , 132, 1057-1072	17
1418	A proposal for integration of the ecosystem-water-food-land-energy (EWFLE) nexus concept into life cycle assessment: A synthesis matrix system for food security. <b>2018</b> , 172, 3874-3889	78
1417	A global assessment of adaptation investment from the perspectives of equity and efficiency. <b>2018</b> , 23, 101-122	25
1416	Spatiotemporal variations of potential evapotranspiration and aridity index in relation to influencing factors over Southwest China during 1960-2013. <b>2018</b> , 133, 711-726	14
1415	Dry-wet variations and cause analysis in Northeast China at multi-time scales. <b>2018</b> , 133, 775-786	12
1414	Exploring optimal soil mulching to enhance maize yield and water use efficiency in dryland areas in China. <b>2018</b> , 68, 273-282	2
1413	Modelling Potential Biophysical Impacts of Climate Change in the Atlantic Forest: Closing the Gap to Identify Vulnerabilities in Brazil. <b>2018</b> , 33-64	1
1412	Global land-water nexus: Agricultural land and freshwater use embodied in worldwide supply chains. <b>2018</b> , 613-614, 931-943	63



1411	Multi-Scalar Pathways to Smallholder Adaptation. <b>2018</b> , 108, 249-262	29
1410	The dynamic mechanism of landscape structure change of arable landscape system in China. <b>2018</b> , 251, 26-36	13
1409	Governance of the Sponge City Programme in China with Wuhan as a case study. <b>2018</b> , 34, 578-596	51
1408	Shifts of growing-season precipitation peaks decrease soil respiration in a semiarid grassland. <b>2018</b> , 24, 1001-1011	51
1407	Effect of climate change on vegetation phenology of different land-cover types on the Tibetan Plateau. <b>2018</b> , 39, 470-487	21
1406	Effects of a ñne film for 2 years system on the grain yield, water use efficiency and cost-benefit balance in dryland spring maize ( <i>Zea mays</i> L.) on the Loess Plateau, China. <b>2018</b> , 64, 939-952	4
1405	Applications of satellite hyper-sensing in Chinese agriculture: Challenges and opportunities. <b>2018</b> , 64, 62-86	26
1404	Elevation-dependent effects of climate change on vegetation greenness in the high mountains of southwest China during 1982-2013. <b>2018</b> , 38, 2029-2038	40
1403	Multi-model ensemble projections of future extreme heat stress on rice across southern China. <b>2018</b> , 133, 1107-1118	33
1402	Numerical simulation on the southern flood and northern drought in summer 2014 over Eastern China. <b>2018</b> , 134, 1287-1299	6
1401	Opportunities to advance sustainable design of nano-enabled agriculture identified through a literature review. <b>2018</b> , 5, 11-26	45
1400	Winter wheat water requirement and utilization efficiency under simulated climate change conditions: A Penman-Monteith model evaluation. <b>2018</b> , 197, 100-109	16
1399	Joint distribution of design precipitation and tide and impact of sampling in a coastal area. <b>2018</b> , 38, e290-e302	14
1398	Can China achieve food security through the development of irrigation?. <b>2018</b> , 18, 465-475	17
1397	Vegetation cover-another dominant factor in determining global water resources in forested regions. <b>2018</b> , 24, 786-795	50
1396	Identifying drought- and flood-prone areas based on significant changes in daily precipitation over Iran. <b>2018</b> , 90, 1427-1446	23
1395	Wetland-atmosphere methane exchange in Northeast China: A comparison of permafrost peatland and freshwater wetlands. <b>2018</b> , 249, 239-249	17
1394	Vulnerability of women to climate change in arid and semi-arid regions: The case of India and South Asia. <b>2018</b> , 149, 4-17	45

1393	Changes in climatic elements in the Pan-Hexi region during 1960–2014 and responses to global climatic changes. <b>2018</b> , 133, 405-420	4
1392	Climate Change and Domestic Migration in China. <b>2018</b> , 06, 1850020	1
1391	Climate Change and Hydrovision. <b>2018</b> , 1-28	
1390	A simple tool for refining GCM water availability projections, applied to Chinese catchments. <b>2018</b> , 22, 6043-6057	2
1389	What Affects Chinese Residents' Perceptions of Climate Change?. <b>2018</b> , 10, 4712	4
1388	Effects of Cropland Conversion and Climate Change on Agrosystem Carbon Balance of China's Dryland: A Typical Watershed Study. <b>2018</b> , 10, 4508	12
1387	Contributions of climate change and anthropogenic activities to runoff change in the Hongshui River, Southwest China. <b>2018</b> , 191, 012143	3
1386	High-resolution projections of evapotranspiration and water availability for Europe under climate change. <b>2018</b> , 38, 3832-3841	41
1385	A Method for Detecting Abrupt Change of Sediment Discharge in the Loess Plateau, China. <b>2018</b> , 10, 1183	1
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1383	Optimal Water Allocation Scheme in Integrated Water-Ecosystem-Economy System. <b>2018</b> , 1-28	3
1382	Process and Mechanism of Agricultural Irrigation Benefit Allocation Coefficient Based on Emergy Analysis: A Case Study of Henan, China. <b>2018</b> , 10, 4436	
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1380	Spatial and temporal variations of summer hot days and heat waves and their relationships with large-scale atmospheric circulations across Northeast China. <b>2018</b> , 38, 5633-5645	9
1379	The changing mass of glaciers on the Tibetan Plateau, 2002–2016, using time-variable gravity from the GRACE satellite mission. <b>2018</b> , 8, 83-97	2
1378	Characteristics of Annual and Seasonal Precipitation Variation in the Upstream of Minjiang River, Southwestern China. <b>2018</b> , 2018, 1-14	4
1377	Impacts of Water Consumption in the Haihe Plain on the Climate of the Taihang Mountains, North China. <b>2018</b> , 2018, 1-15	3
1376	Synthesis of agricultural land system change in China over the past 40 years. <b>2018</b> , 13, 473-479	12

1375	Evaluation of ORCHIDEE-MICT-simulated soil moisture over China and impacts of different atmospheric forcing data. <b>2018</b> , 22, 5463-5484	9
1374	Ultrathin porous Bi <sub>5</sub> O <sub>7</sub> X (X = Cl, Br, I) nanotubes for effective solar desalination. <b>2018</b> , 6, 20037-20043	17
1373	Trend and Abrupt Regime Shift of Temperature Extreme in Northeast China, 1957-2015. <b>2018</b> , 2018, 1-12	6
1372	Tree-Ring-Recorded Drought Variability in the Northern Daxingling Mountains of Northeastern China. <b>2018</b> , 9, 674	5
1371	Regionalization of wheat powdery mildew overwintering in China based on digital elevation. <b>2018</b> , 17, 901-910	7
1370	What determines irrigation efficiency when farmers face extreme weather events? A field survey of the major wheat producing regions in China. <b>2018</b> , 17, 1888-1899	3
1369	Research on Characteristics and Value Analysis of Power Grid Data Asset. <b>2018</b> , 139, 158-164	3
1368	Adaptive Detection Method for Organic Contamination Events in Water Distribution Systems Using the UV-Vis Spectrum Based on Semi-Supervised Learning. <b>2018</b> , 10, 1566	3
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1366	Automated Paddy Rice Extent Extraction with Time Stacks of Sentinel Data: A Case Study in Jiangnan Plain, Hubei, China. <b>2018</b> ,	3
1365	The Nexus of Weather Extremes to Agriculture Production Indexes and the Future Risk in Ghana. <b>2018</b> , 6, 86	7
1364	Urbanization and Industrial Transformation for Improved Water Management. <b>2018</b> , 1-29	
1363	Multifractality and cross-correlation analysis of streamflow and sediment fluctuation at the apex of the Pearl River Delta. <b>2018</b> , 8, 16553	16
1362	Enumerating the Effects of Climate Change on Water Resources Using GCM Scenarios at the Xinjiang Watershed, China. <b>2018</b> , 10, 1296	12
1361	Contributions of Climate Change, CO <sub>2</sub> , Land-Use Change, and Human Activities to Changes in River Flow across 10 Chinese Basins. <b>2018</b> , 19, 1899-1914	15
1360	Effects of water exchange rate on morphological and physiological characteristics of two submerged macrophytes from Erhai Lake. <b>2018</b> , 8, 12750-12760	9
1359	A genome-wide associate study reveals favorable alleles conferring apical and basal spikelet fertility in wheat ( <i>Triticum aestivum</i> L.). <b>2018</b> , 38, 1	2
1358	Increasing compound events of extreme hot and dry days during growing seasons of wheat and maize in China. <b>2018</b> , 8, 16700	32

1357	A comparative study of available water in the major river basins of the world. <b>2018</b> , 567, 510-532	51
1356	Potential Impacts of Climate Variation on Potato Field Evapotranspiration: Field Experiment and Numerical Simulation of Potato Water Use in an Arid Site. <b>2018</b> , 123, 10,202	4
1355	Nonstationarity driven by multidecadal change in catchment groundwater storage: A test of modifications to a common rainfall-run-off model. <b>2018</b> , 32, 3675-3688	14
1354	Changes in Magnitude and Timing of High Flows in Large Rain-Dominated Watersheds in the Cold Region of North-Eastern China. <b>2018</b> , 10, 1658	8
1353	Projected Changes in Hydrological Variables in the Agricultural Region of Alberta, Canada. <b>2018</b> , 10, 1810	11
1352	Mechanical Properties, Permeability, and Freeze-Thaw Resistance of Pervious Concrete Modified by Waste Crumb Rubbers. <b>2018</b> , 8, 1843	20
1351	Urbanization Impacts on Vegetation Phenology in China. <b>2018</b> , 10, 1905	16
1350	Assessing the Regional Water-Saving Irrigation Management Level: A Case Study in Sichuan Province, China. <b>2018</b> , 68, 268	
1349	Assessment of the SMAP-Derived Soil Water Deficit Index (SWDI-SMAP) as an Agricultural Drought Index in China. <b>2018</b> , 10, 1302	15
1348	Impacts of Climate Change and Varietal Replacement on Winter Wheat Phenology in the North China Plain. <b>2018</b> , 12, 251-263	10
1347	Losses of salt marsh in China: Trends, threats and management. <b>2018</b> , 214, 98-109	57
1346	Effect of Water Regime on Growth Performance of Durum Wheat ( <i>Triticum Durum</i> Desf.) During Different Vegetative Phases. <b>2018</b> , 67, 762-778	8
1345	Impacts of Climate Change and Human Activities on the Surface Runoff in the Wuhua River Basin. <b>2018</b> , 10, 3405	6
1344	Potato Breeding for Nitrogen-Use Efficiency: Constraints, Achievements, and Future Prospects. <b>2018</b> , 21, 269-281	4
1343	Predicting the Temporal Structure of the Atlantic Multidecadal Oscillation (AMO) for Agriculture Management in Mexico's Coastal Zone. <b>2018</b> , 35, 210	1
1342	Environmental stressors and population mobility in China. <b>2018</b> , 238-256	2
1341	Asymmetric Ridge Burrow and Film Cover Improves Plant Morphological Traits and Light Utilization in Rain-Fed Maize. <b>2018</b> , 32, 829-838	4
1340	Temporal characteristics detection and attribution analysis of hydrological time-series variation in the seagoing river of southern China under environmental change. <b>2018</b> , 66, 1151-1170	6

1339	Analysis on the Changes of Agro-Meteorological Thermal Indices in Northeast China under RCP4.5 Scenario Using the PRECIS2.1. <b>2018</b> , 9, 323	5
1338	Quantifying Climate Change and Ecological Responses within the Yangtze River Basin, China. <b>2018</b> , 10, 3026	4
1337	Meteorological and Hydrological Drought on the Loess Plateau, China: Evolutionary Characteristics, Impact, and Propagation. <b>2018</b> , 123, 11,569-11,584	42
1336	Greening and Browning of the Hexi Corridor in Northwest China: Spatial Patterns and Responses to Climatic Variability and Anthropogenic Drivers. <b>2018</b> , 10, 1270	30
1335	China's Environment on a Metacoupled Planet. <b>2018</b> , 43, 1-34	44
1334	Selection of optimal escape routes in a flood-prone area based on 2D hydrodynamic modelling. <b>2018</b> , 20, 1310-1322	3
1333	Assessing the effects of ecological restoration approaches in the alpine rangelands of the Qinghai-Tibetan Plateau. <b>2018</b> , 13, 095005	10
1332	The primate extinction crisis in China: immediate challenges and a way forward. <b>2018</b> , 27, 3301-3327	37
1331	East-West contrast of Northeast Asian summer precipitation during the Holocene. <b>2018</b> , 170, 190-200	9
1330	Water resource impacts of future electric vehicle development in China. <b>2018</b> , 205, 987-994	8
1329	Standardized Precipitation Evapotranspiration Index is highly correlated with total water storage over China under future climate scenarios. <b>2018</b> , 194, 123-133	16
1328	Impacts of Water Scarcity on Socioeconomic Development in Inland River Basins. <b>2018</b> , 1-26	
1327	Varying Benefits of Irrigation Expansion for Crop Production Under a Changing Climate and Competitive Water Use Among Crops. <b>2018</b> , 6, 1207-1220	9
1326	Differential Impacts of 1.5 and 2 °C Warming on Extreme Events Over China Using Statistically Downscaled and Bias-Corrected CESM Low-Warming Experiment. <b>2018</b> , 45, 9852-9860	14
1325	Drought-Induced Reduction in Net Primary Productivity across Mainland China from 1982 to 2015. <b>2018</b> , 10, 1433	26
1324	Coordination degree of the exploitation of water resources and its spatial differences in China. <b>2018</b> , 644, 1117-1127	12
1323	Spatio-seasonal changes in the hydrogeochemistry of groundwaters in a highland tropical zone. <b>2018</b> , 88, 275-286	6
1322	How Well Does the Mechanistic Water Quality Model CE-QUAL-W2 Represent Biogeochemical Responses to Climatic and Hydrologic Forcing?. <b>2018</b> , 54, 6609-6624	7

1321	A systematic evidence review of the effect of climate change on malaria in Iran. <b>2018</b> , 42, 331-340	10
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1319	Landscape Patterns Affect Precipitation Differing across Sub-climatic Regions. <b>2018</b> , 10, 4859	1
1318	Analysis of Long-Term Temperature Trend in Illinois and its Implication on the Cropping System. <b>2018</b> , 5, 451-464	1
1317	Fast Adjustments of the Asian Summer Monsoon to Anthropogenic Aerosols. <b>2018</b> , 45, 1001-1010	30
1316	Rural residents' understanding and willingness to pay higher prices for mitigation against global warming in China. <b>2018</b> , 10, 711-728	2
1315	Carbon and water footprints of major cereal crops production in China. <b>2018</b> , 194, 613-623	25
1314	Integrating mechanization with agronomy and breeding to ensure food security in China. <b>2018</b> , 224, 22-27	39
1313	A simulation of winter wheat crop responses to irrigation management using CERES-Wheat model in the North China Plain. <b>2018</b> , 17, 1181-1193	15
1312	Responses of runoff to historical and future climate variability over China. <b>2018</b> , 22, 1971-1991	14
1311	Reconstruction of global gridded monthly sectoral water withdrawals for 1971-2010 and analysis of their spatiotemporal patterns. <b>2018</b> , 22, 2117-2133	54
1310	High-resolution projections of mean and extreme precipitations over China through PRECIS under RCPs. <b>2018</b> , 50, 4037-4060	18
1309	Assessing Global Warming Induced Changes in Summer Rainfall Variability over Eastern China Using the Latest Hadley Centre Climate Model HadGEM3-GC2. <b>2018</b> , 35, 1077-1093	1
1308	Land use/land cover change and its impacts on diurnal temperature range over the agricultural pastoral ecotone of Northern China. <b>2018</b> , 29, 3009-3020	22
1307	Early monsoon failure and mid-summer dryness induces growth cessation of lower range margin <i>Picea crassifolia</i> . <b>2018</b> , 32, 1401-1413	10
1306	Establishing High-Yielding Maize System for Sustainable Intensification in China. <b>2018</b> , 148, 85-109	19
1305	Long-term trends in global river flow and the causal relationships between river flow and ocean signals. <b>2018</b> , 563, 818-833	36
1304	A hybrid process based-empirical approach to identify the association between wheat productivity and climate in the North China Plain during the past 50 years. <b>2018</b> , 108, 72-80	1

1303	North China Plain threatened by deadly heatwaves due to climate change and irrigation. <b>2018</b> , 9, 2894	170
1302	Drought evolution and its impact on the crop yield in the North China Plain. <b>2018</b> , 564, 984-996	74
1301	The reproductive strategy in a population in response to precipitation regimes. <b>2018</b> , 5, 180607	2
1300	Drought Monitoring of Southwestern China Using Insufficient GRACE Data for the Long-Term Mean Reference Frame under Global Change. <b>2018</b> , 31, 6897-6911	30
1299	Nitrogen Emissions-Based Assessment of Anthropogenic Regional Ecological Risk: An Example of Taiwanese Urbanization, 1990-2015. <b>2018</b> , 62, 968-986	2
1298	Enhancing the systems productivity and water use efficiency through coordinated soil water sharing and compensation in strip-intercropping. <b>2018</b> , 8, 10494	20
1297	Cotton and Climate Change. <b>2018</b> , 343-368	1
1296	Spatial distribution pattern of degree-day factors of glaciers on the Qinghai-Tibetan Plateau. <b>2018</b> , 190, 475	8
1295	Climate Change Impact on the Hydrology of Tekeze Basin, Ethiopia: Projection of Rainfall-Runoff for Future Water Resources Planning. <b>2018</b> , 3, 267-278	17
1294	Climate Extremes and Their Impacts on Interannual Vegetation Variabilities: A Case Study in Hubei Province of Central China. <b>2018</b> , 10, 477	7
1293	Analysis of the Spatio-Temporal Patterns of Dry and Wet Conditions in Central Asia. <b>2018</b> , 9, 7	19
1292	Effect of Climate Change on the Yield of Cereal Crops: A Review. <b>2018</b> , 6, 41	78
1291	Keeping global warming within 1.5 °C reduces future risk of yield loss in the United States: A probabilistic modeling approach. <b>2018</b> , 644, 52-59	18
1290	Water Loss Due to Increasing Planted Vegetation over the Badain Jaran Desert, China. <b>2018</b> , 10, 134	8
1289	Climate Change and Anthropogenic Impacts on Wetland and Agriculture in the Songnen and Sanjiang Plain, Northeast China. <b>2018</b> , 10, 356	45
1288	Impacts of Climate Change on Tibetan Lakes: Patterns and Processes. <b>2018</b> , 10, 358	42
1287	Three-Stage Data Envelopment Analysis of Agricultural Water Use Efficiency: A Case Study of the Heihe River Basin. <b>2018</b> , 10, 568	18
1286	The Sustainability of Agricultural Development in China: The AgricultureEnvironment Nexus. <b>2018</b> , 10, 1776	65

1285	Detection of Anomalies and Changes of Rainfall in the Yellow River Basin, China, through Two Graphical Methods. <b>2018</b> , 10, 15	20
1284	Flood Mitigation by Permeable Pavements in Chinese Sponge City Construction. <b>2018</b> , 10, 172	40
1283	Changes in Annual, Seasonal and Monthly Climate and Its Impacts on Runoff in the Hutuo River Basin, China. <b>2018</b> , 10, 278	4
1282	Nonlinear Response of Streamflow to Climate Change in High-Latitude Regions: A Case Study in Headwaters of Nenjiang River Basin in China's Far Northeast. <b>2018</b> , 10, 294	10
1281	Assessing Long-Term Hydrological Impact of Climate Change Using an Ensemble Approach and Comparison with Global Gridded Model-A Case Study on Goodwater Creek Experimental Watershed. <b>2018</b> , 10, 564	10
1280	Multidecadal, county-level analysis of the effects of land use, Bt cotton, and weather on cotton pests in China. <b>2018</b> , 115, E7700-E7709	30
1279	Intercomparison of different uncertainty sources in hydrological climate change projections for an alpine catchment (upper Clutha River, New Zealand). <b>2018</b> , 22, 3125-3142	17
1278	Spatial-temporal changes in runoff and terrestrial ecosystem water retention under 1.5 and 2 °C warming scenarios across China. <b>2018</b> , 9, 717-738	12
1277	Photosynthetic gas-exchange and PSII photochemical acclimation to drought in a native and non-native xerophytic species ( <i>Artemisia ordosica</i> and <i>Salix psammophila</i> ). <b>2018</b> , 94, 130-138	8
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1270	Analysis of Spatiotemporal Dynamics of the Chinese Vegetation Net Primary Productivity from the 1960s to the 2000s. <b>2018</b> , 10, 860	12
1269	Response of ecosystem functions to climate change and implications for sustainable development on the Inner Mongolian Plateau. <b>2018</b> , 40, 191	3
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1258	Understanding the social network of stakeholders in hydropower project development: An owners' view. <b>2019</b> , 132, 326-334	12
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1254	An analysis of spatiotemporal patterns in Chinese agricultural productivity between 2004 and 2014. <b>2019</b> , 105, 591-600	38
1253	Global warming, grain production and its efficiency: Case study of major grain production region. <b>2019</b> , 105, 563-570	14
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1232	Progress in Semi-arid Climate Change Studies in China. <b>2019</b> , 36, 922-937	45

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1107	Chasing the Halcyon Light – Human-Kingfisher Relations in Eastern Han-Dynasty China (CE 25-220) and Their Material, Sociocultural and Ecological Articulations. <b>2019</b> , 24, 411-433	1
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1086	Impacts of climate change on urban rainwater harvesting systems. <b>2019</b> , 665, 262-274	53
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1084	Recent trends of ice phenology for eight large lakes using MODIS products in Northeast China. <b>2019</b> , 40, 5388-5410	5
1083	Climate-associated rice yield change in the Northeast China Plain: A simulation analysis based on CMIP5 multi-model ensemble projection. <b>2019</b> , 666, 126-138	29
1082	Changes in soil erosion in cropland in northeastern China over the past 300 years. <b>2019</b> , 176, 410-418	28
1081	Research on the variation characteristics of climatic elements from April to September in China's main grain-producing areas. <b>2019</b> , 137, 3197-3207	6
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1079	Response of streamflow to environmental changes: A Budyko-type analysis based on 144 river basins over China. <b>2019</b> , 664, 824-833	31
1078	Assessing responses of hydrological processes to climate change over the southeastern Tibetan Plateau based on resampling of future climate scenarios. <b>2019</b> , 664, 737-752	22
1077	Assessment of Water Supply Stability for Drought-Vulnerable Boryeong Multipurpose Dam in South Korea Using Future Dry Climate Change Scenarios. <b>2019</b> , 11, 2403	7
1076	&lt;i>&gt;Effects of different plastic-film mulching practices on maize growth and yield under drip irrigation in sub-humid region of Northeast China&lt;/i>. <b>2019</b> ,	
1075	Mapping the Distribution of Water Resource Security in the Beijing-Tianjin-Hebei Region at the County Level under a Changing Context. <b>2019</b> , 11, 6463	6
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1073	Spatiotemporal Variations In Agricultural Flooding In Middle and Lower Reaches of Yangtze River From 1970 to 2018. <b>2019</b> , 11, 6613	4
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1070	Regional Impacts of Climate and Land Cover on Ecosystem Water Retention Services in the Upper Yangtze River Basin. <b>2019</b> , 11, 5300	3

1069	Drought Trend Analysis Based on the Standardized PrecipitationEvapotranspiration Index Using NASA Earth Exchange Global Daily Downscaled Projections, High Spatial Resolution Coupled Model Intercomparison Project Phase 5 Projections, and Assessment of Potential Impacts on China's Crop Yield in the 21st Century. <b>2019</b> , 11, 2455	4
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1067	Multi-Objective Optimal Operation of the Inter-Basin Water Transfer Project Considering the Unknown Shapes of Pareto Fronts. <b>2019</b> , 11, 2644	3
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1063	Spatio-Temporal Variations in Farmland Water Conditions in the Yanhe River Basin. <b>2019</b> , 11, 2234	1
1062	Inland water bodies in China: Features discovered in the long-term satellite data. <b>2019</b> , 116, 25491-25496	22
1061	Quantification of Cultivar Change in Double Rice Regions under a Warming Climate during 1981-2009 in China. <b>2019</b> , 9, 794	3
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1051	Monitoring hydrological drought using long-term satellite-based precipitation data. <b>2019</b> , 649, 1198-1208	75
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1049	Responses of vegetation to climatic variations in the desert region of northern China. <b>2019</b> , 175, 27-36	33
1048	An intercomparison of multiple statistical downscaling methods for daily precipitation and temperature over China: future climate projections. <b>2019</b> , 52, 6749-6771	5
1047	Deciphering Human Contributions to Yellow River Flow Reductions and Downstream Drying Using Centuries-Long Tree Ring Records. <b>2019</b> , 46, 898-905	17
1046	Ridge-furrow full film mulching: An adaptive management strategy to reduce irrigation of dryland winter rapeseed ( <i>Brassica napus</i> L.) in northwest China. <b>2019</b> , 266-267, 119-128	17
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1044	Estimates of the social cost of carbon: A review based on meta-analysis. <b>2019</b> , 209, 1494-1507	47
1043	Geospatial Technology for Climate Change Impact Assessment of Mountain Agriculture. <b>2019</b> , 381-400	
1042	Variability of bio-climatology indicators in the Southwest China under climate warming during 1961-2015. <b>2019</b> , 63, 107-119	1
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1040	Climate change impact on crop evapotranspiration in Turkey during the 21st Century. <b>2019</b> , 26, 442-453	2
1039	Exploring Future Food Provision Scenarios for China. <b>2019</b> , 53, 1385-1393	33
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1037	Multiscale characteristics of Jing-Jin-Ji seasonal precipitation and their teleconnection with large-scale climate indices. <b>2019</b> , 137, 1495-1513	7
1036	Projected glacier meltwater and river run-off changes in the Upper Reach of the Shule River Basin, north-eastern edge of the Tibetan Plateau. <b>2019</b> , 33, 1059-1074	13
1035	Using irrigation intervals to optimize water-use efficiency and maize yield in Xinjiang, northwest China. <b>2019</b> , 7, 322-334	23
1034	Satellite-observed vegetation stability in response to changes in climate and total water storage in Central Asia. <b>2019</b> , 659, 862-871	31

1033	Rice production and climate change in Northeast China: evidence of adaptation through land use shifts. <b>2019</b> , 14, 024014	13
1032	An assessment of the hydrologic effectiveness of low impact development (LID) practices for managing runoff with different objectives. <b>2019</b> , 231, 504-514	37
1031	Combined Use of Multiple Drought Indices for Global Assessment of Dry Gets Drier and Wet Gets Wetter Paradigm. <b>2019</b> , 32, 737-748	21
1030	Lasting days contributed most to the variation of $\geq 10$ °C accumulated temperature from 1961 to 2010 in China. <b>2019</b> , 137, 655-666	1
1029	Remote sensing estimation of forage mass and spatiotemporal change analysis in the Beijing-Tianjin sandstorm source region, China. <b>2019</b> , 40, 2212-2226	1
1028	Warming affects foliar fungal diseases more than precipitation in a Tibetan alpine meadow. <b>2019</b> , 221, 1574-1584	16
1027	Dynamics of Asian Summer Monsoon Response to Anthropogenic Aerosol Forcing. <b>2019</b> , 32, 843-858	25
1026	Novel Anaerobic Electrochemical Membrane Bioreactor with a CNTs Hollow Fiber Membrane Cathode to Mitigate Membrane Fouling and Enhance Energy Recovery. <b>2019</b> , 53, 1014-1021	44
1025	Regional differences of lake evolution across China during 1960s-2015 and its natural and anthropogenic causes. <b>2019</b> , 221, 386-404	140
1024	Varying responses of two Haloxylon species to extreme drought and groundwater depth. <b>2019</b> , 158, 63-72	16
1023	Trends and Changes in Streamflow With Climate. <b>2019</b> , 275-304	3
1022	Toward sustainable crop production in China: An emergy-based evaluation. <b>2019</b> , 206, 11-26	32
1021	Recent Third Pole Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. <b>2019</b> , 100, 423-444	253
1020	Exergy analysis of Chinese agriculture. <b>2019</b> , 105, 279-291	17
1019	Climate change effect on groundwater resources in Emilia-Romagna region: An improved assessment through NISTOR-CEGW method. <b>2019</b> , 504, 214-228	21
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1016	Assessing agricultural system vulnerability to floods: A hybrid approach using emergy and a landscape fragmentation index. <b>2019</b> , 105, 337-346	16

1015	Climate change impacts on China's agriculture: The responses from market and trade. <b>2020</b> , 62, 101256	23
1014	Estimation of the effects of climate change and human activities on runoff in different time scales in the Beichuan River Basin, China. <b>2020</b> , 26, 103-119	1
1013	Microeconomic models of a production economy with environmental externalities. <b>2020</b> , 22, 2625-2650	2
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1011	An extreme drought event homogenises the diatom composition of two shallow lakes in southwest China. <b>2020</b> , 108, 105662	9
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1009	Evaluation of the rescaled complementary principle in the estimation of evaporation on the Tibetan Plateau. <b>2020</b> , 699, 134367	10
1008	Enhancing sustainability of grassland ecosystems through ecological restoration and grazing management in an era of climate change on Qinghai-Tibetan Plateau. <b>2020</b> , 287, 106684	108
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1004	Adaptation of paddy rice in China to climate change: The effects of shifting sowing date on yield and irrigation water requirement. <b>2020</b> , 228, 105890	31
1003	Influence of spatiotemporal change of temperature and rainfall on major grain yields in southern Jiangsu Province, China. <b>2020</b> , 21, e00818	2
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1001	Predicting the potential distribution of an invasive species, <i>Erigeron canadensis</i> L., in China with a maximum entropy model. <b>2020</b> , 21, e00822	16
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973	Seasonal Covariability of Dryness or Wetness in China and Global Sea Surface Temperature. <b>2020</b> , 33, 727-747	1
972	Trends in maize ( <i>Zea mays</i> L.) phenology and sensitivity to climate factors in China from 1981 to 2010. <b>2020</b> , 64, 461-470	2
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949	A 43-Million-Person Investigation into Weather and Expressed Sentiment in a Changing Climate. <b>2020</b> , 2, 568-577	8
948	Exploring consumption-based planetary boundary indicators: An absolute water footprinting assessment of Chinese provinces and cities. <b>2020</b> , 184, 116163	19
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945	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <b>2020</b> , 1, 416-425	90
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936	Development and Evaluation of the Hydropower Reservoir Rule Curve for a Sustainable Water Supply. <b>2020</b> , 12, 9641	2
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926	Assessing the Roles of Terrestrial Stilling and Solar Dimming in Land Surface Drying/Wetting across China. <b>2020</b> , 12, 1996	1

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911	Divergent Trends of Water Storage Observed via Gravity Satellite across Distinct Areas in China. <b>2020</b> , 12, 2862	5
910	Triple isotope variations of monthly tap water in China. <b>2020</b> , 7, 336	1
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701	Modelling leaf phenology of some trees with accumulated temperature in a temperate forest in northeast China. <b>2021</b> , 489, 119085	3
700	Impacts of climate change on rice production: evidence from 30 Chinese provinces. 1	7
699	The Cold Region Critical Zone in Transition: Responses to Climate Warming and Land Use Change. <b>2021</b> , 46,	4
698	Impact of Cropland Evolution on Soil Wind Erosion in Inner Mongolia of China. <b>2021</b> , 10, 583	2
697	Assessing vegetation condition across topography in Nainital district, India using temperature vegetation dryness index model. 1	0
696	Application of Geomorphometric Approach for the Estimation of Hydro-sedimentological Flows and Cation Weathering Rate: Towards Understanding the Sustainable Land Use Policy for the Sindh Basin, Kashmir Himalaya. <b>2021</b> , 232, 1	4
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692	Soil water balance dynamics under plastic mulching in dryland rainfed agroecosystem across the Loess Plateau. <b>2021</b> , 312, 107354	8



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689	Use of historical and contemporary distribution of mammals in China to inform conservation. <b>2021</b> , 35, 1787-1796	0
688	The Receptor-Like Kinase Confers Improved Water Use Efficiency and Drought Tolerance to Poplar via Modulating Stomatal Density. <b>2021</b> , 22,	11
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686	Fabrication of flexible AgNW/cellulose hybrid film with heat preservation and antibacterial properties for agriculture application. <b>2021</b> , 28, 8693-8704	1
685	Future projections of precipitation, surface temperatures and drought events over the monsoon transitional zone in China from bias-corrected CMIP6 models.	1
684	Spatial and temporal variation of precipitation during 1960-2015 in Northwestern China. <b>2021</b> , 109, 2173	4
683	Assessment of vegetation growth and drought conditions using satellite-based vegetation health indices in Jing-Jin-Ji region of China. <b>2021</b> , 11, 13775	5
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676	Short-term effects of land consolidation of dryland-to-paddy conversion on soil CO flux. <b>2021</b> , 292, 112691	2
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674	Changes in the hydrodynamic intensity of Bosten Lake and its impact on early human settlement in the northeastern Tarim Basin, Arid Central Asia. <b>2021</b> , 576, 110499	2

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670	Space-time clustering of climate extremes amplify global climate impacts, leading to fat-tailed risk. <b>2021</b> , 21, 2277-2284	1
669	Seasonal pattern of stem radial growth of <i>Salix matsudana</i> and its response to climatic and soil factors in a semi-arid area of North China. <b>2021</b> , 28, e01701	1
668	Multistage spatiotemporal variability of temperature extremes over South China from 1961 to 2018. <b>2021</b> , 146, 243-256	2
667	Monitoring drought dynamics in China using Optimized Meteorological Drought Index (OMDI) based on remote sensing data sets. <b>2021</b> , 292, 112733	10
666	Capability of Existing Drought Indices in Reflecting Agricultural Drought in China. <b>2021</b> , 126, e2020JG006064	3
665	Extraction of Areas of Rice False Smut Infection Using UAV Hyperspectral Data. <b>2021</b> , 13, 3185	1
664	Design of a solar PV powered variable frequency drive for a bubbler irrigation system in palm trees fields. <b>2021</b> , 152, 140-153	3
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660	China's agricultural land use change and its underlying drivers: A literature review. <b>2021</b> , 31, 1222-1242	3
659	Spatiotemporal variability of rainfall trends and influencing factors in Rwanda. <b>2021</b> , 219, 105631	7
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657	Monitoring Water and Energy Cycles at Climate Scale in the Third Pole Environment (CLIMATE-TPE). <b>2021</b> , 13, 3661	3
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652	Changes in the drought condition over northern East Asia and the connections with extreme temperature and precipitation indices. <b>2021</b> , 207, 103645	2
651	Co-benefits of deep carbon reduction on air quality and health improvement in Sichuan Province of China. <b>2021</b> , 16, 095011	3
650	Research on Evaluation of Climate Comfort in Northwest China under Climate Change. <b>2021</b> , 13, 10111	1
649	Joint probability of drought encounter among three major grain production zones of China under nonstationary climate. <b>2021</b> , 126995	2
648	Modeling agro-hydrological processes and analyzing water use in a super-large irrigation district (Hetao) of arid upper Yellow River basin. <b>2021</b> , 603, 127014	4
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646	Risk assessment of freezing injury during overwintering of wheat in the northern boundary of the Winter Wheat Region in China. <b>2021</b> , 9, e12154	0
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644	Green water appropriation of the cropland ecosystem in China. <b>2022</b> , 806, 150597	2
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642	Adjustable Robust Optimization for Multi-Period Water Allocation in Droughts Under Uncertainty. 1	1
641	Contribution Analysis of the Streamflow Changes in Selected Catchments on the Loess Plateau, China, Using Multiple Budyko-Based Approaches. <b>2021</b> , 13, 2534	0
640	Uncertainty assessment of drought characteristics projections in humid subtropical basins in China based on multiple CMIP5 models and different index definitions. <b>2021</b> , 600, 126502	5
639	Contrasting effects of climate and LULC change on blue water resources at varying temporal and spatial scales. <b>2021</b> , 786, 147488	4
638	Research on cropping intensity mapping of the Huai River Basin (China) based on multi-source remote sensing data fusion. <b>2021</b> , 1	1

637	Response of yield, yield components and water-nitrogen use efficiency of winter wheat to different drip fertigation regimes in Northwest China. <b>2021</b> , 255, 107034	5
636	Historical variability and future changes in seasonal extreme temperature over Iran. <b>2021</b> , 146, 1227	0
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633	Separating variance in the runoff in Beijing's river system under climate change and human activities. <b>2021</b> , 123, 103044	3
632	Geographic distribution of net-zero energy wastewater treatment in China. <b>2021</b> , 150, 111462	4
631	Techno-economic comparison between forward osmosis (FO) and temperature-enhanced osmotic membrane distillation (T-OMD) in agricultural fertigation. <b>2021</b> , 43, 102216	
630	Impacts of climate change on drought risk of winter wheat in the North China Plain. <b>2021</b> , 20, 2601-2612	2
629	Frequent locally absent rings indicate increased threats of extreme droughts to semi-arid <i>Pinus tabuliformis</i> forests in North China. <b>2021</b> , 308-309, 108601	0
628	The climatic effects of irrigation over the middle and lower reaches of the Yangtze River, China. <b>2021</b> , 308-309, 108550	3
627	Spatial-temporal rainfall trend and variability assessment in the Upper Wabe Shebelle River Basin, Ethiopia: Application of innovative trend analysis method. <b>2021</b> , 37, 100915	2
626	Study on spatiotemporal distribution characteristics of flood and drought disaster impacts on agriculture in China. <b>2021</b> , 64, 102504	5
625	Characteristics, environmental impact, and reduction strategies of food waste generated by young adults: Case study on university canteens in Wuhan, China. <b>2021</b> , 321, 128877	2
624	Crop yield forecasting and associated optimum lead time analysis based on multi-source environmental data across China. <b>2021</b> , 308-309, 108558	7
623	Long term variation of evapotranspiration and water balance based on upscaling eddy covariance observations over the temperate semi-arid grassland of China. <b>2021</b> , 308-309, 108566	3
622	Mapping cropping intensity in Huaihe basin using phenology algorithm, all Sentinel-2 and Landsat images in Google Earth Engine. <b>2021</b> , 102, 102376	25
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620	The hidden risk in China's cropland conversion from the perspective of slope. <b>2021</b> , 206, 105536	1

619	Enhancement by sodium on the growth of the xerophyte <i>Zygophyllum xanthoxylum</i> is achieved by maintaining efficient photosynthesis when stomatal aperture is minimized. <b>2021</b> , 191, 104624	0
618	Assessing vegetation stability to climate variability in Central Asia. <b>2021</b> , 298, 113330	3
617	Mitigating global warming potential while coordinating economic benefits by optimizing irrigation managements in maize production. <b>2021</b> , 298, 113474	1
616	Effects of different plastic film mulching on soil hydrothermal conditions and grain-filling process in an arid irrigation district. <b>2021</b> , 795, 148886	3
615	Quantifying maize grain yield losses caused by climate change based on extensive field data across China. <b>2021</b> , 174, 105811	11
614	The spatiotemporal pattern and influencing factors of land surface temperature change in China from 2003 to 2019. <b>2021</b> , 104, 102537	3
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608	Lowered water table causes species substitution while nitrogen amendment causes species loss in alpine wetland microbial communities. <b>2021</b> , 31, 912-922	2
607	Threshold effects of soil pH on microbial co-occurrence structure in acidic and alkaline arable lands. <b>2021</b> , 800, 149592	1
606	Soil type and pH mediated arable soil bacterial compositional variation across geographic distance in North China Plain. <b>2022</b> , 169, 104220	1
605	Unraveling the role of ballast surface charge at floc growth behavior in ballasted flocculation. <b>2022</b> , 278, 119507	1
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595	The trend of runoff change and its attribution in the middle reaches of the Yellow River. <b>2021</b> , 36, 256	1
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591	Genetic dissection of drought resistance based on root traits at the bud stage in common bean. <b>2021</b> , 134, 1047-1061	5
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589	Evolutionary analysis on structural characteristics of water resource system in basins of Northern China. <b>2020</b> , 28, 800-812	4
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583	Climate Change Adaptation. <b>2015</b> , 223-272	2
582	Late Cenozoic Climate Change in Monsoon-Arid Asia and Global Changes. <b>2014</b> , 491-581	13
581	Understanding Chinese Environmental Risk Perceptions from 1995-2015. <b>2017</b> , 125-144	2
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579	Empirical Model for the Assessment of Climate Change Impacts on Spatial Pattern of Water Availability in Nigeria. <b>2021</b> , 405-427	1
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566	On the applicability of temperature and precipitation data from CMIP3 for China. <b>2012</b> , 7, e44659	28

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564	Impacts of agricultural management and climate change on future soil organic carbon dynamics in North China Plain. <b>2014</b> , 9, e94827	14
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531	Runoff and sediment load of the Yan River, China: changes over the last 60 yr.	2
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528	Impacts of human activities and climate variability on green and blue water flows in the Heihe River Basin in Northwest China.	15
527	Land-use changes reinforce the impacts of climate change on annual runoff dynamics in a southeast China coastal watershed.	2
526	Analysis of long-term terrestrial water storage variations in Yangtze River basin.	2
525	Potential climate change impacts on the water balance of regional unconfined aquifer systems in South-Western Australia.	3
524	Village-level supply reliability of surface water irrigation in rural China: effects of climate change. 379, 89-104	1
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507	Phosphorus emission from open burning of major crop residues in China. <b>2021</b> , 132568	1
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