

Yanjun Shen

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114
papers

4,798
citations

34
h-index

67
g-index

122
ext. papers

5,693
ext. citations

4.6
avg, IF

5.77
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 114 | Evaluating urban expansion and land use change in Shijiazhuang, China, by using GIS and remote sensing. <i>Landscape and Urban Planning</i> , 2006 , 75, 69-80 | 7.7 | 457 |
| 113 | An integrated model for the assessment of global water resources [Part 1: Model description and input meteorological forcing. <i>Hydrology and Earth System Sciences</i> , 2008 , 12, 1007-1025 | 5.5 | 390 |
| 112 | An integrated model for the assessment of global water resources [Part 2: Applications and assessments. <i>Hydrology and Earth System Sciences</i> , 2008 , 12, 1027-1037 | 5.5 | 287 |
| 111 | Effects of irrigation on water balance, yield and WUE of winter wheat in the North China Plain. <i>Agricultural Water Management</i> , 2006 , 85, 211-218 | 5.9 | 250 |
| 110 | Drought and flood monitoring for a large karst plateau in Southwest China using extended GRACE data. <i>Remote Sensing of Environment</i> , 2014 , 155, 145-160 | 13.2 | 215 |
| 109 | Effect of soil water deficit on evapotranspiration, crop yield, and water use efficiency in the North China Plain. <i>Agricultural Water Management</i> , 2004 , 64, 107-122 | 5.9 | 210 |
| 108 | Effect of precipitation change on water balance and WUE of the winter wheat-summer maize rotation in the North China Plain. <i>Agricultural Water Management</i> , 2010 , 97, 1139-1145 | 5.9 | 192 |
| 107 | Projection of future world water resources under SRES scenarios: water withdrawal / Projection des ressources en eau mondiales futures selon les scénarios du RSSE: prélèvement d'eau. <i>Hydrological Sciences Journal</i> , 2008 , 53, 11-33 | 3.5 | 135 |
| 106 | Estimation of regional irrigation water requirement and water supply risk in the arid region of Northwestern China 1989-2010. <i>Agricultural Water Management</i> , 2013 , 128, 55-64 | 5.9 | 110 |
| 105 | Evaluation of the FAO AquaCrop model for winter wheat on the North China Plain under deficit irrigation from field experiment to regional yield simulation. <i>Agricultural Water Management</i> , 2014 , 135, 61-72 | 5.9 | 109 |
| 104 | Evapotranspiration and its partitioning in an irrigated winter wheat field: A combined isotopic and micrometeorologic approach. <i>Journal of Hydrology</i> , 2011 , 408, 203-211 | 6 | 92 |
| 103 | Spatial and temporal trends of climate change in Xinjiang, China. <i>Journal of Chinese Geography</i> , 2011 , 21, 1007-1018 | 3.7 | 91 |
| 102 | Detection of human-induced evapotranspiration using GRACE satellite observations in the Haihe River basin of China. <i>Geophysical Research Letters</i> , 2017 , 44, 190-199 | 4.9 | 84 |
| 101 | Analysis of changing pan evaporation in the arid region of Northwest China. <i>Water Resources Research</i> , 2013 , 49, 2205-2212 | 5.4 | 82 |
| 100 | Development of topsoil grain size index for monitoring desertification in arid land using remote sensing. <i>International Journal of Remote Sensing</i> , 2006 , 27, 2411-2422 | 3.1 | 80 |
| 99 | Desiccation of the Tarim River, Xinjiang, China, and mitigation strategy. <i>Quaternary International</i> , 2011 , 244, 264-271 | 2 | 72 |
| 98 | Decadal Trends in Evaporation from Global Energy and Water Balances. <i>Journal of Hydrometeorology</i> , 2012 , 13, 379-391 | 3.7 | 68 |

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| 97 | Energy/water budgets and productivity of the typical croplands irrigated with groundwater and surface water in the North China Plain. <i>Agricultural and Forest Meteorology</i> , 2013 , 181, 133-142 | 5.8 | 64 |
| 96 | A SRES-based gridded global population dataset for 1990-2100. <i>Population and Environment</i> , 2007 , 28, 113-131 | 4 | 63 |
| 95 | Estimating groundwater recharge using deep vadose zone data under typical irrigated cropland in the piedmont region of the North China Plain. <i>Journal of Hydrology</i> , 2015 , 527, 305-315 | 6 | 62 |
| 94 | Agricultural water supply/demand changes under projected future climate change in the arid region of northwestern China. <i>Journal of Hydrology</i> , 2016 , 540, 257-273 | 6 | 62 |
| 93 | Wastewater irrigation: past, present, and future. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019 , 6, e1234 | 5.7 | 59 |
| 92 | Impact of alternative cropping systems on groundwater use and grain yields in the North China Plain Region. <i>Agricultural Systems</i> , 2017 , 153, 109-117 | 6.1 | 51 |
| 91 | Trends and variability in streamflow and snowmelt runoff timing in the southern Tianshan Mountains. <i>Journal of Hydrology</i> , 2018 , 557, 173-181 | 6 | 48 |
| 90 | Estimation of agricultural water consumption from meteorological and yield data: a case study of Hebei, North China. <i>PLoS ONE</i> , 2013 , 8, e58685 | 3.7 | 48 |
| 89 | Changes of precipitation extremes in arid Central Asia. <i>Quaternary International</i> , 2017 , 436, 16-27 | 2 | 46 |
| 88 | Measurement and analysis of evapotranspiration and surface conductance of a wheat canopy. <i>Hydrological Processes</i> , 2002 , 16, 2173-2187 | 3.3 | 46 |
| 87 | Impact of warming climate and cultivar change on maize phenology in the last three decades in North China Plain. <i>Theoretical and Applied Climatology</i> , 2016 , 124, 653-661 | 3 | 45 |
| 86 | Spatiotemporal variability of winter wheat phenology in response to weather and climate variability in China. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 1191-1202 | 3.9 | 43 |
| 85 | Trend in pan evaporation and its attribution over the past 50 years in China. <i>Journal of Chinese Geography</i> , 2010 , 20, 557-568 | 3.7 | 43 |
| 84 | Impacts of varying agricultural intensification on crop yield and groundwater resources: comparison of the North China Plain and US High Plains. <i>Environmental Research Letters</i> , 2015 , 10, 044013 | 6.2 | 42 |
| 83 | Water and ecological security: dealing with hydroclimatic challenges at the heart of China's Silk Road. <i>Environmental Earth Sciences</i> , 2016 , 75, 1 | 2.9 | 41 |
| 82 | Assessment of groundwater contamination by nitrates associated with wastewater irrigation: A case study in Shijiazhuang region, China. <i>Hydrological Processes</i> , 2004 , 18, 2303-2312 | 3.3 | 39 |
| 81 | On the Relationship of Soil Moisture and Extreme Temperatures in East China. <i>Earth Interactions</i> , 2014 , 18, 1-20 | 1.5 | 34 |
| 80 | Statistical analysis of the relationship between spring soil moisture and summer precipitation in East China. <i>International Journal of Climatology</i> , 2014 , 34, 1511-1523 | 3.5 | 33 |

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| 79 | Vegetation dynamics and their response to hydroclimatic factors in the Tarim River Basin, China. <i>Ecohydrology</i> , 2013 , 6, 927-936 | 2.5 | 32 |
| 78 | Measurement of evapotranspiration in a winter wheat field. <i>Hydrological Processes</i> , 2002 , 16, 2805-2817 | 3.3 | 32 |
| 77 | Quantifying water and energy budgets and the impacts of climatic and human factors in the Haihe River Basin, China: 1. Model and validation. <i>Journal of Hydrology</i> , 2015 , 528, 206-216 | 6 | 31 |
| 76 | Evaluating water conservation effects due to cropping system optimization on the Beijing-Tianjin-Hebei plain, China. <i>Agricultural Systems</i> , 2018 , 159, 32-41 | 6.1 | 31 |
| 75 | Projection of future world water resources under SRES scenarios: an integrated assessment. <i>Hydrological Sciences Journal</i> , 2014 , 59, 1775-1793 | 3.5 | 30 |
| 74 | Using NDVI percentiles to monitor real-time crop growth. <i>Computers and Electronics in Agriculture</i> , 2019 , 162, 357-363 | 6.5 | 28 |
| 73 | Quantifying water and energy budgets and the impacts of climatic and human factors in the Haihe River Basin, China: 2. Trends and implications to water resources. <i>Journal of Hydrology</i> , 2015 , 527, 251-261 | 6 | 28 |
| 72 | Global perspective on hydrology, water balance, and water resources management in arid basins. <i>Hydrological Processes</i> , 2009 , 24, n/a-n/a | 3.3 | 28 |
| 71 | Seasonal variation of energy partitioning in irrigated lands. <i>Hydrological Processes</i> , 2004 , 18, 2223-2234 | 3.3 | 28 |
| 70 | Water movement and solute transport in deep vadose zone under four irrigated agricultural land-use types in the North China Plain. <i>Journal of Hydrology</i> , 2018 , 559, 510-522 | 6 | 27 |
| 69 | Energy fluxes and the Priestley-Taylor parameter over winter wheat and maize in the North China Plain. <i>Hydrological Processes</i> , 2004 , 18, 2235-2246 | 3.3 | 27 |
| 68 | Re-evaluation of future water stress due to socio-economic and climate factors under a warming climate. <i>Hydrological Sciences Journal</i> , 2015 , 60, 14-29 | 3.5 | 26 |
| 67 | Water footprint of crop production for different crop structures in the Hebei southern plain, North China. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3061-3069 | 5.5 | 26 |
| 66 | Characteristics of the water-energy-carbon fluxes of irrigated pear (<i>Pyrus bretschneideri</i> Rehd) orchards in the North China Plain. <i>Agricultural Water Management</i> , 2013 , 128, 140-148 | 5.9 | 25 |
| 65 | Tracking climate change in Central Asia through temperature and precipitation extremes. <i>Journal of Chinese Geography</i> , 2019 , 29, 3-28 | 3.7 | 22 |
| 64 | Modeling demand/supply of water resources in the arid region of northwestern China during the late 1980s to 2010. <i>Journal of Chinese Geography</i> , 2015 , 25, 573-591 | 3.7 | 21 |
| 63 | Change in pan evaporation over the past 50 years in the arid region of China. <i>Hydrological Processes</i> , 2009 , 24, n/a-n/a | 3.3 | 21 |
| 62 | Identifying interactions between river water and groundwater in the North China Plain using multiple tracers. <i>Environmental Earth Sciences</i> , 2014 , 72, 99-110 | 2.9 | 20 |

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| 61 | Spatial-temporal variation of near-surface temperature lapse rates over the Tianshan Mountains, central Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14,006-14,017 | 4.4 | 20 |
| 60 | Comparison of the water budget for the typical cropland and pear orchard ecosystems in the North China Plain. <i>Agricultural Water Management</i> , 2018 , 198, 53-64 | 5.9 | 19 |
| 59 | Web-based irrigation decision support system with limited inputs for farmers. <i>Agricultural Water Management</i> , 2018 , 210, 279-285 | 5.9 | 19 |
| 58 | Water-Saving Potential of Subsurface Drip Irrigation For Winter Wheat. <i>Sustainability</i> , 2019 , 11, 2978 | 3.6 | 18 |
| 57 | Evaluating the vegetation growing season changes in the arid region of northwestern China. <i>Theoretical and Applied Climatology</i> , 2014 , 118, 569-579 | 3 | 18 |
| 56 | Review of historical and projected future climatic and hydrological changes in mountainous semiarid Xinjiang (northwestern China), central Asia. <i>Catena</i> , 2020 , 187, 104343 | 5.8 | 18 |
| 55 | Decadal water storage decrease driven by vegetation changes in the Yellow River Basin. <i>Science Bulletin</i> , 2020 , 65, 1859-1861 | 10.6 | 17 |
| 54 | Coupling land surface and crop growth models for predicting evapotranspiration and carbon exchange in wheat-maize rotation croplands. <i>Biogeosciences</i> , 2010 , 7, 3363-3375 | 4.6 | 17 |
| 53 | Spatio-temporal variations in extreme drought in China during 1961-2015. <i>Journal of Chinese Geography</i> , 2019 , 29, 67-83 | 3.7 | 17 |
| 52 | Change of winter wheat planting area and its impacts on groundwater depletion in the North China Plain. <i>Journal of Chinese Geography</i> , 2019 , 29, 891-908 | 3.7 | 16 |
| 51 | Evaluation of the CropSyst Model during Wheat-Maize Rotations on the North China Plain for Identifying Soil Evaporation Losses. <i>Frontiers in Plant Science</i> , 2017 , 8, 1667 | 6.2 | 16 |
| 50 | Attribution of satellite-observed vegetation trends in a hyper-arid region of the Heihe River basin, Western China. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 3499-3509 | 5.5 | 16 |
| 49 | Combined impact of climate change, cultivar shift, and sowing date on spring wheat phenology in Northern China. <i>Journal of Meteorological Research</i> , 2016 , 30, 820-831 | 2.3 | 14 |
| 48 | Characterising deep vadose zone water movement and solute transport under typical irrigated cropland in the North China Plain. <i>Hydrological Processes</i> , 2017 , 31, 1498-1509 | 3.3 | 13 |
| 47 | Impacts of varied irrigation on field water budgets and crop yields in the North China Plain: Rainfed vs. irrigated double cropping system. <i>Agricultural Water Management</i> , 2017 , 190, 42-54 | 5.9 | 13 |
| 46 | Unraveling the Hydrology of the Glacierized Kaidu Basin by Integrating Multisource Data in the Tianshan Mountains, Northwestern China. <i>Water Resources Research</i> , 2018 , 54, 557-580 | 5.4 | 13 |
| 45 | Effects of saline water drip irrigation on soil salinity and cotton growth in an Oasis Field. <i>Ecohydrology</i> , 2013 , 6, 1021-1030 | 2.5 | 13 |
| 44 | Two ultraviolet radiation datasets that cover China. <i>Advances in Atmospheric Sciences</i> , 2017 , 34, 805-815 | 2.9 | 12 |

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| 43 | LUC-Driven Changes in Gross Primary Production and Actual Evapotranspiration in Northern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031705 | 4.4 | 12 |
| 42 | Simulation of surface runoff and sediment yield under different land-use in a Taihang Mountains watershed, North China. <i>Soil and Tillage Research</i> , 2015 , 153, 7-19 | 6.5 | 12 |
| 41 | Simulation of evapotranspiration and carbon dioxide flux in the wheat-maize rotation croplands of the North China Plain using the Simple Biosphere Model. <i>Hydrological Processes</i> , 2011 , 25, 3107-3120 | 3.3 | 12 |
| 40 | Measurement and analysis of the redistribution of soil moisture and solutes in a maize field in the lower reaches of the Yellow River. <i>Hydrological Processes</i> , 2004 , 18, 2263-2273 | 3.3 | 12 |
| 39 | Future climate change impacts on grain yield and groundwater use under different cropping systems in the North China Plain. <i>Agricultural Water Management</i> , 2021 , 246, 106685 | 5.9 | 12 |
| 38 | Quantification of the impacts of climate change and human agricultural activities on oasis water requirements in an arid region: a case study of the Heihe River basin, China. <i>Earth System Dynamics</i> , 2018 , 9, 211-225 | 4.8 | 12 |
| 37 | Quantifying the spatial differences of landscape change in the Hai River Basin, China, in the 1990s. <i>International Journal of Remote Sensing</i> , 2012 , 33, 4482-4501 | 3.1 | 10 |
| 36 | Multiple methods for calculating minimum ecological flux of the desiccated Lower Tarim River, Western China. <i>Ecohydrology</i> , 2013 , 6, 1040-1047 | 2.5 | 10 |
| 35 | Revegetation projects significantly improved ecosystem service values in the agro-pastoral ecotone of northern China in recent 20 years. <i>Science of the Total Environment</i> , 2021 , 788, 147756 | 10.2 | 10 |
| 34 | Changes in reference evapotranspiration over an agricultural region in the Qinghai-Tibetan plateau, China. <i>Theoretical and Applied Climatology</i> , 2016 , 123, 107-115 | 3 | 9 |
| 33 | Effects of colloidal particle size on the geochemical characteristics of REE in the water in southern Jiangxi province, China. <i>Environmental Earth Sciences</i> , 2016 , 75, 1 | 2.9 | 9 |
| 32 | Spatial characteristics of surface water and groundwater using water stable isotope in the Tarim River Basin, northwestern China. <i>Ecohydrology</i> , 2013 , 6, 1031-1039 | 2.5 | 9 |
| 31 | Soil moisture dynamics and implications for irrigation of farmland with a deep groundwater table. <i>Agricultural Water Management</i> , 2017 , 192, 138-148 | 5.9 | 9 |
| 30 | Spatially explicit estimation of domestic water use in the arid region of northwestern China: 1985-2009. <i>Hydrological Sciences Journal</i> , 2013 , 58, 162-176 | 3.5 | 9 |
| 29 | Quantitative evaluation of the rainfall influence on streamflow in an inland mountainous river basin within Central Asia. <i>Hydrological Sciences Journal</i> , 2018 , 63, 17-30 | 3.5 | 8 |
| 28 | Mapping the agricultural land use of the North China Plain in 2002 and 2012. <i>Journal of Chinese Geography</i> , 2019 , 29, 909-921 | 3.7 | 7 |
| 27 | Estimation of land surface evapotranspiration over complex terrain based on multi-spectral remote sensing data. <i>Hydrological Processes</i> , 2017 , 31, 446-461 | 3.3 | 7 |
| 26 | Groundwater recharge under irrigated agro-ecosystems in the North China Plain: From a critical zone perspective. <i>Journal of Chinese Geography</i> , 2019 , 29, 877-890 | 3.7 | 6 |

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| 25 | Calculation of albedo on complex terrain using MODIS data: a case study in Taihang Mountain of China. <i>Environmental Earth Sciences</i> , 2015 , 74, 6315-6324 | 2.9 | 6 |
| 24 | Attribution analysis of changing pan evaporation in the Qinghai-Tibetan Plateau, China. <i>International Journal of Climatology</i> , 2018 , 38, e1032-e1043 | 3.5 | 6 |
| 23 | Sensitivity of terrestrial water and carbon fluxes to climate variability in semi-humid basins of Haihe River, China. <i>Ecological Modelling</i> , 2017 , 353, 117-128 | 3 | 6 |
| 22 | Evaluating the Impact of Alternative Cropping Systems on Groundwater Consumption and Nitrate Leaching in the Piedmont Area of the North China Plain. <i>Agronomy</i> , 2020 , 10, 1635 | 3.6 | 5 |
| 21 | Modelling agro-environmental variables under data availability limitations and scenario managements in an alluvial region of the North China Plain. <i>Environmental Modelling and Software</i> , 2019 , 111, 94-107 | 5.2 | 5 |
| 20 | Comparison of winter wheat yield sensitivity to climate variables under irrigated and rain-fed conditions. <i>Frontiers of Earth Science</i> , 2016 , 10, 444-454 | 1.7 | 4 |
| 19 | Quantifying impacts of climate dynamics and land-use changes on water yield service in the agro-pastoral ecotone of northern China. <i>Science of the Total Environment</i> , 2021 , 809, 151153 | 10.2 | 4 |
| 18 | A Satellite-Based Method for National Winter Wheat Yield Estimating in China. <i>Remote Sensing</i> , 2021 , 13, 4680 | 5 | 3 |
| 17 | Interactions among the Phenological Events of Winter Wheat in the North China Plain-Based on Field Data and Improved MODIS Estimation. <i>Remote Sensing</i> , 2019 , 11, 2976 | 5 | 3 |
| 16 | Ecohydrology of the inland river basins in the Northwestern Arid Region of China. <i>Ecohydrology</i> , 2013 , 6, 905-908 | 2.5 | 2 |
| 15 | Peak river flows in cold regions Drivers and modelling using GRACE satellite observations and temperature data | | 2 |
| 14 | The Impact of Land Use Change on Water-Related Ecosystem Services in the Bashang Area of Hebei Province, China. <i>Sustainability</i> , 2021 , 13, 716 | 3.6 | 2 |
| 13 | Evaluating nitrate transport and accumulation in the deep vadose zone of the intensive agricultural region, North China Plain.. <i>Science of the Total Environment</i> , 2022 , 153894 | 10.2 | 2 |
| 12 | Water requirements of the oasis in the middle Heihe River Basin, China: Trends and causes 2017 , | | 1 |
| 11 | DEVELOPMENT OF A GLOBAL INTEGRATED WATER RESOURCES MODEL FOR WATER RESOURCES ASSESSMENTS UNDER CLIMATE CHANGE. <i>Proceedings of Hydraulic Engineering</i> , 2007 , 51, 229-234 | | 1 |
| 10 | Detection of land desertification and topsoil grain size using remote sensing | | 1 |
| 9 | Projecting future changes in extreme climate for maize production in the North China Plain and the role of adjusting the sowing date. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2022 , 27, 1 | 3.9 | 1 |
| 8 | Increasing shrinkage risk of endorheic lakes in the middle of farming-pastoral ecotone of Northern China. <i>Ecological Indicators</i> , 2022 , 135, 108523 | 5.8 | 1 |

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| 7 | The seasonal and spatial distribution of hydrochemical characteristics of groundwater and its controlling factors in the eastern Loess Plateau. <i>Earth Science Informatics</i> ,1 | 2.5 | 1 |
| 6 | Groundwater Storage Recovery Raises the Risk of Nitrate Pollution.. <i>Environmental Science & Technology</i> , 2021 , | 10.3 | 1 |
| 5 | Balancing water and food by optimizing the planting structure in the Beijing-Tianjin-Hebei region, China. <i>Agricultural Water Management</i> , 2021 , 262, 107326 | 5.9 | 0 |
| 4 | Spatial-Temporal Change of Agricultural Biomass and Carbon Capture Capability in the Mid-South of Hebei Province 2018 , 159-187 | | |
| 3 | Groundwater Resources in Urban Water Management. <i>Library for Sustainable Urban Regeneration</i> , 2008 , 35-59 | | |
| 2 | Change of Potential Evapotranspiration and Its Implications to Water Cycle 2014 , 267-287 | | |
| 1 | Water Conservation for Sustainable Agriculture 2019 , 1-11 | | |