

Xu Xu

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,031
citations

218592

26
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243529

44
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49
all docs

49
docs citations

49
times ranked

1423
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effects of irrigation and fertilization on grain yield, water and nitrogen dynamics and their use efficiency of spring wheat farmland in an arid agricultural watershed of Northwest China. <i>Agricultural Water Management</i> , 2022, 260, 107277. | 2.4 | 33 |
| 2 | Significant differences in agro-hydrological processes and water productivity between canal- and well-irrigated areas in an arid region. <i>Agricultural Water Management</i> , 2022, 267, 107637. | 2.4 | 7 |
| 3 | A Novel Efficient Method for Land Cover Classification in Fragmented Agricultural Landscapes Using Sentinel Satellite Imagery. <i>Remote Sensing</i> , 2022, 14, 2045. | 1.8 | 12 |
| 4 | Comparison of ensemble data assimilation methods for the estimation of time-varying soil hydraulic parameters. <i>Journal of Hydrology</i> , 2021, 594, 125729. | 2.3 | 6 |
| 5 | A comprehensive analysis of water productivity in natural vegetation and various crops coexistent agro-ecosystems. <i>Agricultural Water Management</i> , 2021, 243, 106481. | 2.4 | 9 |
| 6 | Soil evaporation and its impact on salt accumulation in different landscapes under freeze-thaw conditions in an arid seasonal frozen region. <i>Vadose Zone Journal</i> , 2021, 20, e20098. | 1.3 | 19 |
| 7 | Pedotransfer functions for estimating soil water retention properties of northern China agricultural soils: Development and needs*. <i>Irrigation and Drainage</i> , 2021, 70, 593-608. | 0.8 | 4 |
| 8 | Predicting agroecosystem responses to identify appropriate water-saving management in arid irrigated regions with shallow groundwater: Realization on a regional scale. <i>Agricultural Water Management</i> , 2021, 247, 106713. | 2.4 | 10 |
| 9 | Modeling the behavior of shallow groundwater system in sustaining arid agroecosystems with fragmented land use. <i>Agricultural Water Management</i> , 2021, 249, 106811. | 2.4 | 12 |
| 10 | Parameterization and modeling of paddy rice (<i>Oryza sativa</i> L. ssp. japonica) growth and water use in cold regions: Yield and water-saving analysis. <i>Agricultural Water Management</i> , 2021, 250, 106864. | 2.4 | 2 |
| 11 | Modeling agro-hydrological processes and analyzing water use in a super-large irrigation district (Hetao) of arid upper Yellow River basin. <i>Journal of Hydrology</i> , 2021, 603, 127014. | 2.3 | 20 |
| 12 | Responses of crop growth and water productivity to climate change and agricultural water-saving in arid region. <i>Science of the Total Environment</i> , 2020, 703, 134621. | 3.9 | 30 |
| 13 | Energy fluxes and evapotranspiration over irrigated maize field in an arid area with shallow groundwater. <i>Agricultural Water Management</i> , 2020, 228, 105922. | 2.4 | 20 |
| 14 | A gaussian process-based iterative Ensemble Kalman Filter for parameter estimation of unsaturated flow. <i>Journal of Hydrology</i> , 2020, 589, 125210. | 2.3 | 5 |
| 15 | Modified Model for Simulating Water Flow in Furrow Irrigation. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2020, 146, 06020002. | 0.6 | 4 |
| 16 | Effect of irrigation and fertilization regimes on grain yield, water and nitrogen productivity of mulching cultivated maize (<i>Zea mays</i> L.) in the Hetao Irrigation District of China. <i>Agricultural Water Management</i> , 2020, 232, 106065. | 2.4 | 54 |
| 17 | A field-validated surrogate crop model for predicting root-zone moisture and salt content in regions with shallow groundwater. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4213-4237. | 1.9 | 11 |
| 18 | Analyzing spatiotemporal characteristics of soil salinity in arid irrigated agro-ecosystems using integrated approaches. <i>Geoderma</i> , 2019, 356, 113935. | 2.3 | 59 |

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|----|---|-----|-----------|
| 19 | Improving the Estimation of Hydraulic and Thermal Properties of Heterogeneous Media via the Addition of Heat Loss. <i>Vadose Zone Journal</i> , 2019, 18, 1-12. | 1.3 | 1 |
| 20 | Enhancing the capability of hydrological models to simulate the regional agro-hydrological processes in watersheds with shallow groundwater: Based on the SWAT framework. <i>Journal of Hydrology</i> , 2019, 572, 1-16. | 2.3 | 24 |
| 21 | A conceptual agricultural water productivity model considering under field capacity soil water redistribution applicable for arid and semi-arid areas with deep groundwater. <i>Agricultural Water Management</i> , 2019, 213, 309-323. | 2.4 | 11 |
| 22 | Hydrological complexities in irrigated agro-ecosystems with fragmented land cover types and shallow groundwater: Insights from a distributed hydrological modeling method. <i>Agricultural Water Management</i> , 2019, 213, 868-881. | 2.4 | 22 |
| 23 | Modeling and assessing agro-hydrological processes and irrigation water saving in the middle Heihe River basin. <i>Agricultural Water Management</i> , 2019, 211, 152-164. | 2.4 | 57 |
| 24 | Long-term groundwater dynamics affected by intense agricultural activities in oasis areas of arid inland river basins, Northwest China. <i>Agricultural Water Management</i> , 2018, 203, 37-52. | 2.4 | 54 |
| 25 | Growth responses of crops and natural vegetation to irrigation and water table changes in an agro-ecosystem of Hetao, upper Yellow River basin: Scenario analysis on maize, sunflower, watermelon and tamarisk. <i>Agricultural Water Management</i> , 2018, 199, 93-104. | 2.4 | 43 |
| 26 | AHC: An integrated numerical model for simulating agroecosystem processes—Model description and application. <i>Ecological Modelling</i> , 2018, 390, 23-39. | 1.2 | 22 |
| 27 | An Integrated Hydrological Model for the Restoration of Ecosystems in Arid Regions: Application in Zhangye Basin of the Middle Heihe River Basin, Northwest China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,564. | 1.2 | 2 |
| 28 | Impact of agricultural water-saving practices on regional evapotranspiration: The role of groundwater in sustainable agriculture in arid and semi-arid areas. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 156-168. | 1.9 | 46 |
| 29 | Shallow groundwater plays an important role in enhancing irrigation water productivity in an arid area: The perspective from a regional agricultural hydrology simulation. <i>Agricultural Water Management</i> , 2018, 208, 43-58. | 2.4 | 31 |
| 30 | Analyzing the Role of Shallow Groundwater Systems in the Water Use of Different Land-Use Types in Arid Irrigated Regions. <i>Water (Switzerland)</i> , 2018, 10, 634. | 1.2 | 27 |
| 31 | Estimating Evapotranspiration of Processing Tomato under Plastic Mulch Using the SIMDualKc Model. <i>Water (Switzerland)</i> , 2018, 10, 1088. | 1.2 | 19 |
| 32 | Deficit irrigation enhances contribution of shallow groundwater to crop water consumption in arid area. <i>Agricultural Water Management</i> , 2017, 185, 116-125. | 2.4 | 33 |
| 33 | Modeling and assessing the function and sustainability of natural patches in salt-affected agro-ecosystems: Application to tamarisk (<i>Tamarix chinensis</i> Lour.) in Hetao, upper Yellow River basin. <i>Journal of Hydrology</i> , 2017, 552, 490-504. | 2.3 | 32 |
| 34 | Modeling contribution of shallow groundwater to evapotranspiration and yield of maize in an arid area. <i>Scientific Reports</i> , 2017, 7, 43122. | 1.6 | 33 |
| 35 | Effects of water stress on processing tomatoes yield, quality and water use efficiency with plastic mulched drip irrigation in sandy soil of the Hetao Irrigation District. <i>Agricultural Water Management</i> , 2017, 179, 205-214. | 2.4 | 139 |
| 36 | Global sensitivity analysis and calibration of parameters for a physically-based agro-hydrological model. <i>Environmental Modelling and Software</i> , 2016, 83, 88-102. | 1.9 | 34 |

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|----|---|-----|-----------|
| 37 | Optimizing regional irrigation water use by integrating a two-level optimization model and an agro-hydrological model. <i>Agricultural Water Management</i> , 2016, 178, 76-88. | 2.4 | 77 |
| 38 | Modeling and assessing field irrigation water use in a canal system of Hetao, upper Yellow River basin: Application to maize, sunflower and watermelon. <i>Journal of Hydrology</i> , 2016, 532, 122-139. | 2.3 | 154 |
| 39 | Groundwater Recharge and Capillary Rise in Irrigated Areas of the Upper Yellow River Basin Assessed by an Agro-hydrological Model. <i>Irrigation and Drainage</i> , 2015, 64, 587-599. | 0.8 | 40 |
| 40 | Assessment of irrigation performance and water productivity in irrigated areas of the middle Heihe River basin using a distributed agro-hydrological model. <i>Agricultural Water Management</i> , 2015, 147, 67-81. | 2.4 | 94 |
| 41 | Evaluation of soil water dynamics and crop yield under furrow irrigation with a two-dimensional flow and crop growth coupled model. <i>Agricultural Water Management</i> , 2014, 141, 10-22. | 2.4 | 39 |
| 42 | Effects of water deficits on growth, yield and water productivity of drip-irrigated onion (<i>Allium cepa</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 2.3 | 57 |
| 43 | Responses of drip irrigated tomato (<i>Solanum lycopersicum</i> L.) yield, quality and water productivity to various soil matric potential thresholds in an arid region of Northwest China. <i>Agricultural Water Management</i> , 2013, 129, 181-193. | 2.4 | 87 |
| 44 | Assessing the effects of water table depth on water use, soil salinity and wheat yield: Searching for a target depth for irrigated areas in the upper Yellow River basin. <i>Agricultural Water Management</i> , 2013, 125, 46-60. | 2.4 | 140 |
| 45 | Integration of SWAP and MODFLOW-2000 for modeling groundwater dynamics in shallow water table areas. <i>Journal of Hydrology</i> , 2012, 412-413, 170-181. | 2.3 | 101 |
| 46 | Using MODFLOW and GIS to Assess Changes in Groundwater Dynamics in Response to Water Saving Measures in Irrigation Districts of the Upper Yellow River Basin. <i>Water Resources Management</i> , 2011, 25, 2035-2059. | 1.9 | 118 |
| 47 | Assessing the groundwater dynamics and impacts of water saving in the Hetao Irrigation District, Yellow River basin. <i>Agricultural Water Management</i> , 2010, 98, 301-313. | 2.4 | 164 |
| 48 | Integrating MODFLOW and GIS technologies for assessing impacts of irrigation management and groundwater use in the Hetao Irrigation District, Yellow River basin. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 3257-3263. | 0.9 | 13 |
| 49 | Analytical expressions of drainable and fillable porosity for layered soils under shallow groundwater environments. <i>Water Resources Research</i> , 0, , . | 1.7 | 0 |