

Xuesong Zhang

List of Publications by Year in descending order

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133
papers

6,151
citations

66315

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all docs

143
docs citations

143
times ranked

7197
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Sustainable Revegetation in the Loess Plateau Using Coupled Water and Carbon Management. <i>Engineering</i> , 2022, 15, 143-153.	3.2	15
2	A review of carbon monitoring in wet carbon systems using remote sensing. <i>Environmental Research Letters</i> , 2022, 17, 025009.	2.2	29
3	The role of climate change and vegetation greening on evapotranspiration variation in the Yellow River Basin, China. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108842.	1.9	54
4	Inductive predictions of hydrologic events using a Long Short-Term Memory network and the Soil and Water Assessment Tool. <i>Environmental Modelling and Software</i> , 2022, 152, 105400.	1.9	7
5	Assessment and projection of ground freezing&thawing responses to climate change in the Upper Heihe River Basin, Northwest China. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101137.	1.0	2
6	Irrigation plays significantly different roles in influencing hydrological processes in two breadbasket regions. <i>Science of the Total Environment</i> , 2022, 844, 157253.	3.9	0
7	Integrating field observations and process-based modeling to predict watershed water quality under environmental perturbations. <i>Journal of Hydrology</i> , 2021, 602, 125762.	2.3	22
8	Impacts of land-use conversions on the water cycle in a typical watershed in the southern Chinese Loess Plateau. <i>Journal of Hydrology</i> , 2021, 593, 125741.	2.3	52
9	Utility of Remotely Sensed Evapotranspiration Products to Assess an Improved Model Structure. <i>Sustainability</i> , 2021, 13, 2375.	1.6	6
10	A multi-scale daily SPEI dataset for drought characterization at observation stations over mainland China from 1961 to 2018. <i>Earth System Science Data</i> , 2021, 13, 331-341.	3.7	94
11	Responses of soil organic carbon to climate change in the Qilian Mountains and its future projection. <i>Journal of Hydrology</i> , 2021, 596, 126110.	2.3	31
12	Assessing the Impacts of Recent Crop Expansion on Water Quality in the Missouri River Basin Using the Soil and Water Assessment Tool. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002284.	1.3	8
13	Grassland-to-cropland conversion increased soil, nutrient, and carbon losses in the US Midwest between 2008 and 2016. <i>Environmental Research Letters</i> , 2021, 16, 054018.	2.2	25
14	Quantifying the Responses of Evapotranspiration and Its Components to Vegetation Restoration and Climate Change on the Loess Plateau of China. <i>Remote Sensing</i> , 2021, 13, 2358.	1.8	16
15	Pronounced Increases in Future Soil Erosion and Sediment Deposition as Influenced by Freeze&Thaw Cycles in the Upper Mississippi River Basin. <i>Environmental Science & Technology</i> , 2021, 55, 9905-9915.	4.6	33
16	The Water Availability on the Chinese Loess Plateau since the Implementation of the Grain for Green Project as Indicated by the Evaporative Stress Index. <i>Remote Sensing</i> , 2021, 13, 3302.	1.8	10
17	Uncertainty assessment of multi-parameter, multi-GCM, and multi-RCP simulations for streamflow and non-floodplain wetland (NFW) water storage. <i>Journal of Hydrology</i> , 2021, 600, 126564.	2.3	22
18	Coupling terrestrial and aquatic thermal processes for improving stream temperature modeling at the watershed scale. <i>Journal of Hydrology</i> , 2021, 603, 126983.	2.3	8

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19	Assessing and predicting soil carbon density in China using CMIP5 earth system models. <i>Science of the Total Environment</i> , 2021, 799, 149247.	3.9	5
20	Effects of temporal resolution of river routing on hydrologic modeling and aquatic ecosystem health assessment with the SWAT model. <i>Environmental Modelling and Software</i> , 2021, 146, 105232.	1.9	7
21	Spatially and temporally explicit life cycle global warming, eutrophication, and acidification impacts from corn production in the U.S. Midwest. <i>Journal of Cleaner Production</i> , 2020, 242, 118465.	4.6	46
22	Modeling riverine dissolved and particulate organic carbon fluxes from two small watersheds in the northeastern United States. <i>Environmental Modelling and Software</i> , 2020, 124, 104601.	1.9	17
23	Multi-environmental impacts of biofuel production in the U.S. Corn Belt: A coupled hydro-biogeochemical modeling approach. <i>Journal of Cleaner Production</i> , 2020, 251, 119561.	4.6	20
24	Predicting the climate change impacts on water-carbon coupling cycles for a loess hilly-gully watershed. <i>Journal of Hydrology</i> , 2020, 581, 124388.	2.3	38
25	Effects of surface runoff and infiltration partition methods on hydrological modeling: A comparison of four schemes in two watersheds in the Northeastern US. <i>Journal of Hydrology</i> , 2020, 581, 124415.	2.3	21
26	Freeze-Thaw cycle representation alters response of watershed hydrology to future climate change. <i>Catena</i> , 2020, 195, 104767.	2.2	52
27	Carbon-Negative Biofuel Production. <i>Environmental Science & Technology</i> , 2020, 54, 10797-10807.	4.6	26
28	SWAT ungauged: Water quality modeling in the Upper Mississippi River Basin. <i>Journal of Hydrology</i> , 2020, 584, 124601.	2.3	36
29	Nitrate loading projection is sensitive to freeze-thaw cycle representation. <i>Water Research</i> , 2020, 186, 116355.	5.3	35
30	Effects of Irrigation on Water, Carbon, and Nitrogen Budgets in a Semiarid Watershed in the Pacific Northwest: A Modeling Study. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001953.	1.3	15
31	Parameter Optimization for Uncertainty Reduction and Simulation Improvement of Hydrological Modeling. <i>Remote Sensing</i> , 2020, 12, 4069.	1.8	15
32	Comparing Machine Learning Approaches for Predicting Spatially Explicit Life Cycle Global Warming and Eutrophication Impacts from Corn Production. <i>Sustainability</i> , 2020, 12, 1481.	1.6	17
33	Spatially and Temporally Explicit Life Cycle Environmental Impacts of Soybean Production in the U.S. Midwest. <i>Environmental Science & Technology</i> , 2020, 54, 4758-4768.	4.6	25
34	Modeling sediment diagenesis processes on riverbed to better quantify aquatic carbon fluxes and stocks in a small watershed of the Mid-Atlantic region. <i>Carbon Balance and Management</i> , 2020, 15, 13.	1.4	12
35	Projecting life-cycle environmental impacts of corn production in the U.S. Midwest under future climate scenarios using a machine learning approach. <i>Science of the Total Environment</i> , 2020, 714, 136697.	3.9	32
36	Sustainable feedstock for bioethanol production: Impact of spatial resolution on the design of a sustainable biomass supply-chain. <i>Bioresource Technology</i> , 2020, 302, 122896.	4.8	14

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37	Future climate impacts on global agricultural yields over the 21st century. <i>Environmental Research Letters</i> , 2020, 15, 114010.	2.2	12
38	A multirate mass transfer model to represent the interaction of multicomponent biogeochemical processes between surface water and hyporheic zones (SWAT-MRMT-R 1.0). <i>Geoscientific Model Development</i> , 2020, 13, 3553-3569.	1.3	14
39	A coupled surface water storage and subsurface water dynamics model in SWAT for characterizing hydroperiod of geographically isolated wetlands. <i>Advances in Water Resources</i> , 2019, 131, 103380.	1.7	25
40	Detecting change-point, trend, and seasonality in satellite time series data to track abrupt changes and nonlinear dynamics: A Bayesian ensemble algorithm. <i>Remote Sensing of Environment</i> , 2019, 232, 111181.	4.6	159
41	Remote sensing and modeling fusion for investigating the ecosystem water-carbon coupling processes. <i>Science of the Total Environment</i> , 2019, 697, 134064.	3.9	43
42	IPEAT+: A Built-In Optimization and Automatic Calibration Tool of SWAT+. <i>Water (Switzerland)</i> , 2019, 11, 1681.	1.2	29
43	Climate change-induced drought evolution over the past 50 years in the southern Chinese Loess Plateau. <i>Environmental Modelling and Software</i> , 2019, 122, 104519.	1.9	42
44	On the Use of NLDAS2 Weather Data for Hydrologic Modeling in the Upper Mississippi River Basin. <i>Water (Switzerland)</i> , 2019, 11, 960.	1.2	11
45	Climate change will pose challenges to water quality management in the St. Croix River basin. <i>Environmental Pollution</i> , 2019, 251, 302-311.	3.7	18
46	Implications of water management representations for watershed hydrologic modeling in the Yakima River basin. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 35-49.	1.9	32
47	Integrating terrestrial and aquatic processes toward watershed scale modeling of dissolved organic carbon fluxes. <i>Environmental Pollution</i> , 2019, 249, 125-135.	3.7	36
48	Improving hydrological simulation in the Upper Mississippi River Basin through enhanced freeze-thaw cycle representation. <i>Journal of Hydrology</i> , 2019, 571, 605-618.	2.3	28
49	Integration in a depot-based decentralized biorefinery system: Corn stover-based cellulosic biofuel. <i>GCB Bioenergy</i> , 2019, 11, 871-882.	2.5	22
50	The Renewable Fuel Standard May Limit Overall Greenhouse Gas Savings by Corn Stover-Based Cellulosic Biofuels in the U.S. Midwest: Effects of the Regulatory Approach on Projected Emissions. <i>Environmental Science & Technology</i> , 2019, 53, 2288-2294.	4.6	6
51	Modeling soil temperature in a temperate region: A comparison between empirical and physically based methods in SWAT. <i>Ecological Engineering</i> , 2019, 129, 134-143.	1.6	25
52	Application and Evaluation of the China Meteorological Assimilation Driving Datasets for the SWAT Model (CMADS) in Poorly Gauged Regions in Western China. <i>Water (Switzerland)</i> , 2019, 11, 2171.	1.2	18
53	Improving the SWAT forest module for enhancing water resource projections: A case study in the St. Croix River basin. <i>Hydrological Processes</i> , 2019, 33, 864-875.	1.1	11
54	Climatic and hydrologic controls on net primary production in a semiarid loess watershed. <i>Journal of Hydrology</i> , 2019, 568, 803-815.	2.3	47

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55	Simulating eroded soil organic carbon with the SWAT-C model. <i>Environmental Modelling and Software</i> , 2018, 102, 39-48.	1.9	34
56	Corn stover cannot simultaneously meet both the volume and GHG reduction requirements of the renewable fuel standard. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 203-212.	1.9	11
57	Improving the real-time probabilistic channel flood forecasting by incorporating the uncertainty of inflow using the particle filter. <i>Journal of Hydrodynamics</i> , 2018, 30, 828-840.	1.3	2
58	Exploring effective best management practices in the Miyun reservoir watershed, China. <i>Ecological Engineering</i> , 2018, 123, 30-42.	1.6	38
59	Assessing the performance of a physically-based soil moisture module integrated within the Soil and Water Assessment Tool. <i>Environmental Modelling and Software</i> , 2018, 109, 329-341.	1.9	33
60	Hydrological emulator for global applications – HE v1.0.0. <i>Geoscientific Model Development</i> , 2018, 11, 1077-1092.	1.3	22
61	Simulation of the irrigation requirements for improving carbon sequestration in a rainfed cropping system under long-term fertilization on the Loess Plateau of China. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 198-208.	2.5	17
62	EISA (Energy Independence and Security Act) compliant ethanol fuel from corn stover in a decentralized system. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 873-881.	1.9	6
63	Spatiotemporal features of the hydro-biogeochemical cycles in a typical loess gully watershed. <i>Ecological Indicators</i> , 2018, 91, 542-554.	2.6	36
64	Enhancing SWAT simulation of forest ecosystems for water resource assessment: A case study in the St. Croix River basin. <i>Ecological Engineering</i> , 2018, 120, 422-431.	1.6	25
65	Integration of historical map and aerial imagery to characterize long-term land-use change and landscape dynamics: An object-based analysis via Random Forests. <i>Ecological Indicators</i> , 2018, 95, 595-605.	2.6	42
66	Parameter Uncertainty Analysis of the SWAT Model in a Mountain-Loess Transitional Watershed on the Chinese Loess Plateau. <i>Water (Switzerland)</i> , 2018, 10, 690.	1.2	70
67	Cellulosic feedstock production on Conservation Reserve Program land: potential yields and environmental effects. <i>GCB Bioenergy</i> , 2017, 9, 460-468.	2.5	23
68	Potential impacts of climate change on carbon dynamics in a rain-fed agro-ecosystem on the Loess Plateau of China. <i>Science of the Total Environment</i> , 2017, 577, 267-278.	3.9	23
69	Enhancing the soil and water assessment tool model for simulating N ₂ O emissions of three agricultural systems. <i>Ecosystem Health and Sustainability</i> , 2017, 3, .	1.5	27
70	Stochastic modeling of phosphorus transport in the Three Gorges Reservoir by incorporating variability associated with the phosphorus partition coefficient. <i>Science of the Total Environment</i> , 2017, 592, 649-661.	3.9	20
71	A real-time probabilistic channel flood-forecasting model based on the Bayesian particle filter approach. <i>Environmental Modelling and Software</i> , 2017, 88, 151-167.	1.9	44
72	The greenhouse gas intensity and potential biofuel production capacity of maize stover harvest in the US Midwest. <i>GCB Bioenergy</i> , 2017, 9, 1543-1554.	2.5	13

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73	A Global Data Analysis for Representing Sediment and Particulate Organic Carbon Yield in Earth System Models. <i>Water Resources Research</i> , 2017, 53, 10674-10700.	1.7	17
74	Modeling urban building energy use: A review of modeling approaches and procedures. <i>Energy</i> , 2017, 141, 2445-2457.	4.5	185
75	Simulating microbial denitrification with EPIC: Model description and evaluation. <i>Ecological Modelling</i> , 2017, 359, 349-362.	1.2	22
76	Spatially Explicit Life Cycle Analysis of Cellulosic Ethanol Production Scenarios in Southwestern Michigan. <i>Bioenergy Research</i> , 2017, 10, 13-25.	2.2	13
77	An Analysis of Terrestrial and Aquatic Environmental Controls of Riverine Dissolved Organic Carbon in the Conterminous United States. <i>Water (Switzerland)</i> , 2017, 9, 383.	1.2	19
78	Spatiotemporal response of the water cycle to land use conversions in a typical hilly gully basin on the Loess Plateau, China. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6485-6499.	1.9	37
79	Potential and limitations of satellite laser altimetry for monitoring water surface dynamics: ICESat for US lakes. <i>International Journal of Agricultural and Biological Engineering</i> , 2017, 10, 154-165.	0.3	14
80	Integration of nitrogen dynamics into the Noah-MP land surface model v1.1 for climate and environmental predictions. <i>Geoscientific Model Development</i> , 2016, 9, 1-15.	1.3	31
81	Improving SWAT for simulating water and carbon fluxes of forest ecosystems. <i>Science of the Total Environment</i> , 2016, 569-570, 1478-1488.	3.9	52
82	Emergence of new hydrologic regimes of surface water resources in the conterminous United States under future warming. <i>Environmental Research Letters</i> , 2016, 11, 114003.	2.2	43
83	The Role of Climate Covariability on Crop Yields in the Conterminous United States. <i>Scientific Reports</i> , 2016, 6, 33160.	1.6	53
84	An integrated assessment of the potential of agricultural and forestry residues for energy production in China. <i>GCB Bioenergy</i> , 2016, 8, 880-893.	2.5	46
85	Spatial patterns and environmental controls of particulate organic carbon in surface waters in the conterminous United States. <i>Science of the Total Environment</i> , 2016, 554-555, 266-275.	3.9	18
86	SWAT-DayCent coupler: An integration tool for simultaneous hydro-biogeochemical modeling using SWAT and DayCent. <i>Environmental Modelling and Software</i> , 2016, 86, 81-90.	1.9	34
87	Evaluating land cover influences on model uncertainties: A case study of cropland carbon dynamics in the Mid-Century Intensive Campaign region. <i>Ecological Modelling</i> , 2016, 337, 176-187.	1.2	7
88	Simulating county-level crop yields in the conterminous United States using the Community Land Model: The effects of optimizing irrigation and fertilization. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1912-1931.	1.3	26
89	Spatiotemporal patterns of livestock manure nutrient production in the conterminous United States from 1930 to 2012. <i>Science of the Total Environment</i> , 2016, 541, 1592-1602.	3.9	57
90	Biogenic carbon fluxes from global agricultural production and consumption. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1617-1639.	1.9	57

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91	Assessment of the importance of spatial scale in long-term land use modeling of the Midwestern United States. <i>Environmental Modelling and Software</i> , 2015, 72, 261-271.	1.9	4
92	Climate change impacts on US agriculture and forestry: benefits of global climate stabilization. <i>Environmental Research Letters</i> , 2015, 10, 095004.	2.2	35
93	A global map of urban extent from nightlights. <i>Environmental Research Letters</i> , 2015, 10, 054011.	2.2	228
94	Terrestrial lidar remote sensing of forests: Maximum likelihood estimates of canopy profile, leaf area index, and leaf angle distribution. <i>Agricultural and Forest Meteorology</i> , 2015, 209-210, 100-113.	1.9	68
95	Life Cycle Assessment of Switchgrass Cellulosic Ethanol Production in the Wisconsin and Michigan Agricultural Contexts. <i>Bioenergy Research</i> , 2015, 8, 897-909.	2.2	21
96	Regional scale cropland carbon budgets: Evaluating a geospatial agricultural modeling system using inventory data. <i>Environmental Modelling and Software</i> , 2015, 63, 199-216.	1.9	55
97	Multi-scale geospatial agroecosystem modeling: A case study on the influence of soil data resolution on carbon budget estimates. <i>Science of the Total Environment</i> , 2014, 479-480, 138-150.	3.9	21
98	A calibration procedure to improve global rice yield simulations with EPIC. <i>Ecological Modelling</i> , 2014, 273, 128-139.	1.2	60
99	CO2 emissions from crop residue-derived biofuels. <i>Nature Climate Change</i> , 2014, 4, 933-934.	8.1	13
100	Identifying representative crop rotation patterns and grassland loss in the US Western Corn Belt. <i>Computers and Electronics in Agriculture</i> , 2014, 108, 173-182.	3.7	42
101	The contribution of future agricultural trends in the US Midwest to global climate change mitigation. <i>Global Environmental Change</i> , 2014, 24, 143-154.	3.6	17
102	Modifying the Soil and Water Assessment Tool to simulate cropland carbon flux: Model development and initial evaluation. <i>Science of the Total Environment</i> , 2013, 463-464, 810-822.	3.9	64
103	Efficient multi-objective calibration of a computationally intensive hydrologic model with parallel computing software in Python. <i>Environmental Modelling and Software</i> , 2013, 46, 208-218.	1.9	78
104	Maintaining environmental quality while expanding biomass production: Sub-regional U.S. policy simulations. <i>Energy Policy</i> , 2013, 57, 518-531.	4.2	16
105	Hyperspectral remote sensing of plant biochemistry using Bayesian model averaging with variable and band selection. <i>Remote Sensing of Environment</i> , 2013, 132, 102-119.	4.6	130
106	Sustainable bioenergy production from marginal lands in the US Midwest. <i>Nature</i> , 2013, 493, 514-517.	18.7	612
107	Soil Carbon Change and Net Energy Associated with Biofuel Production on Marginal Lands: A Regional Modeling Perspective. <i>Journal of Environmental Quality</i> , 2013, 42, 1802-1814.	1.0	35
108	Case study of visualizing global user download patterns using Google Earth and NASA World Wind. <i>Journal of Applied Remote Sensing</i> , 2012, 6, 061703.	0.6	3

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109	Evaluating the Efficiency of a Multi-core Aware Multi-objective Optimization Tool for Calibrating the SWAT Model. Transactions of the ASABE, 2012, 55, 1723-1731.	1.1	10
110	Bayesian Neural Networks for Uncertainty Analysis of Hydrologic Modeling: A Comparison of Two Schemes. Water Resources Management, 2012, 26, 2365-2382.	1.9	21
111	Bioenergy crop models: descriptions, data requirements, and future challenges. GCB Bioenergy, 2012, 4, 620-633.	2.5	79
112	Precipitation Estimate Using NEXRAD Ground-Based Radar Images Validation, Calibration, and Spatial Analysis. , 2012, , 271-302.		0
113	Comment on "Modeling Miscanthus in the Soil and Water Assessment Tool (SWAT) to Simulate Its Water Quality Effects As a Bioenergy Crop". Environmental Science & Technology, 2011, 45, 6211-6212.	4.6	17
114	Explicitly integrating parameter, input, and structure uncertainties into Bayesian Neural Networks for probabilistic hydrologic forecasting. Journal of Hydrology, 2011, 409, 696-709.	2.3	50
115	HPC-EPIC for high resolution simulations of environmental and sustainability assessment. Computers and Electronics in Agriculture, 2011, 79, 112-115.	3.7	31
116	Biomass supply from alternative cellulosic crops and crop residues: A spatially explicit bioeconomic modeling approach. Biomass and Bioenergy, 2011, 35, 4636-4647.	2.9	54
117	Evaluating the SWAT Model for Hydrological Modeling in the Xixian Watershed and a Comparison with the XAJ Model. Water Resources Management, 2011, 25, 2595-2612.	1.9	101
118	Simultaneous calibration of surface flow and baseflow simulations: a revisit of the SWAT model calibration framework. Hydrological Processes, 2011, 25, 2313-2320.	1.1	56
119	Performance evaluation of interpolation methods for incorporating rain gauge measurements into NEXRAD precipitation data: a case study in the Upper Guadalupe River Basin. Hydrological Processes, 2011, 25, 3711-3720.	1.1	15
120	On the use of multi-objective algorithm, genetically adaptive multi-objective method for multi-site calibration of the SWAT model. Hydrological Processes, 2010, 24, 955-969.	1.1	106
121	GIS-based spatial precipitation estimation using next generation radar and raingauge data. Environmental Modelling and Software, 2010, 25, 1781-1788.	1.9	34
122	Using NEXRAD and Rain Gauge Precipitation Data for Hydrologic Calibration of SWAT in a Northeastern Watershed. Transactions of the ASABE, 2010, 53, 1501-1510.	1.1	58
123	SWAT Ungauged: Hydrological Budget and Crop Yield Predictions in the Upper Mississippi River Basin. Transactions of the ASABE, 2010, 53, 1533-1546.	1.1	279
124	An integrative modeling framework to evaluate the productivity and sustainability of biofuel crop production systems. GCB Bioenergy, 2010, 2, 258-277.	2.5	106
125	Calibration and uncertainty analysis of the SWAT model using Genetic Algorithms and Bayesian Model Averaging. Journal of Hydrology, 2009, 374, 307-317.	2.3	187
126	Evaluation of global optimization algorithms for parameter calibration of a computationally intensive hydrologic model. Hydrological Processes, 2009, 23, 430-441.	1.1	129

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127	Approximating SWAT Model Using Artificial Neural Network and Support Vector Machine¹. Journal of the American Water Resources Association, 2009, 45, 460-474.	1.0	109
128	GIS&CBased Spatial Precipitation Estimation: A Comparison of Geostatistical Approaches¹. Journal of the American Water Resources Association, 2009, 45, 894-906.	1.0	87
129	Estimating uncertainty of streamflow simulation using Bayesian neural networks. Water Resources Research, 2009, 45, .	1.7	66
130	Runoff Simulation of the Headwaters of the Yellow River Using The SWAT Model With Three Snowmelt Algorithms¹. Journal of the American Water Resources Association, 2008, 44, 48-61.	1.0	135
131	Bayesian Learning with Gaussian Processes for Supervised Classification of Hyperspectral Data. Photogrammetric Engineering and Remote Sensing, 2008, 74, 1223-1234.	0.3	33
132	Multi-Site Calibration of the SWAT Model for Hydrologic Modeling. Transactions of the ASABE, 2008, 51, 2039-2049.	1.1	122
133	Predicting Hydrologic Response to Climate Change in the Luohe River Basin Using the SWAT Model. Transactions of the ASABE, 2007, 50, 901-910.	1.1	97