Raghavan Srinivasan

List of Publications by Year
in descending order

308	30,274	13078	5871
papers	citations	68 h-index	162 g-index

351	351	351	16990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	LARGE AREA HYDROLOGIC MODELING AND ASSESSMENT PART I: MODEL DEVELOPMENT. Journal of the American Water Resources Association, 1998, 34, 73-89.	2.4	6,168
2	SWAT: Model Use, Calibration, and Validation. Transactions of the ASABE, 2012, 55, 1491-1508.	1.3	2,059
3	Modelling hydrology and water quality in the pre-alpine/alpine Thur watershed using SWAT. Journal of Hydrology, 2007, 333, 413-430.	5.6	1,574
4	A continental-scale hydrology and water quality model for Europe: Calibration and uncertainty of a high-resolution large-scale SWAT model. Journal of Hydrology, 2015, 524, 733-752.	5.6	1,233
5	VALIDATION OF THE SWAT MODEL ON A LARGE RWER BASIN WITH POINT AND NONPOINT SOURCES. Journal of the American Water Resources Association, 2001, 37, 1169-1188.	2.4	1,185
6	A global sensitivity analysis tool for the parameters of multi-variable catchment models. Journal of Hydrology, 2006, 324, 10-23.	5.6	1,005
7	Development and evaluation of Soil Moisture Deficit Index (SMDI) and Evapotranspiration Deficit Index (ETDI) for agricultural drought monitoring. Agricultural and Forest Meteorology, 2005, 133, 69-88.	4.8	624
8	Applications of the SWAT Model Special Section: Overview and Insights. Journal of Environmental Quality, 2014, 43, 1-8.	2.9	424
9	Regional estimation of base flow and groundwater recharge in the Upper Mississippi river basin. Journal of Hydrology, 2000, 227, 21-40.	5.6	377
10	LARGE AREA HYDROLOGIC MODELING AND ASSESSMENT PART II: MODEL APPLICATION. Journal of the American Water Resources Association, 1998, 34, 91-101.	2.4	374
11	Sediment management modelling in the Blue Nile Basin using SWAT model. Hydrology and Earth System Sciences, 2011, 15, 807-818.	5.0	319
12	Estimation of freshwater availability in the West African sub-continent using the SWAT hydrologic model. Journal of Hydrology, 2008, 352, 30-49.	5.6	298
13	Modeling blue and green water availability in Africa. Water Resources Research, 2008, 44, .	4.2	292
14	Evaluation of CFSR climate data for hydrologic prediction in dataâ€scarce watersheds: an application in the Blue Nile River Basin. Journal of the American Water Resources Association, 2014, 50, 1226-1241.	2.4	284
15	A Guideline for Successful Calibration and Uncertainty Analysis for Soil and Water Assessment: A Review of Papers from the 2016 International SWAT Conference. Water (Switzerland), 2018, 10, 6.	2.8	271
16	Advances in the application of the SWAT model for water resources management. Hydrological Processes, 2005, 19, 749-762.	2.6	257
17	Using the Soil and Water Assessment Tool (SWAT) to model ecosystem services: A systematic review. Journal of Hydrology, 2016, 535, 625-636.	5.6	256
18	Introduction to <scp>SWAT</scp>+, A Completely Restructured Version of the Soil and Water Assessment Tool. Journal of the American Water Resources Association, 2017, 53, 115-130.	2.4	253

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19	A modeling approach to evaluate the impacts of water quality management plans implemented in a watershed in Texas. Environmental Modelling and Software, 2006, 21, 1141-1157.	4.6	252
20	INTEGRATION OF A BASIN-SCALE WATER QUALITY MODEL WITH GIS. Journal of the American Water Resources Association, 1994, 30, 453-462.	2.4	238
21	CONTINENTAL SCALE SIMULATION OF THE HYDROLOGIC BALANCE. Journal of the American Water Resources Association, 1999, 35, 1037-1051.	2.4	203
22	Modeling impacts of climate change on freshwater availability in Africa. Journal of Hydrology, 2013, 480, 85-101.	5.6	203
23	Impact of climate change on the hydroclimatology of Lake Tana Basin, Ethiopia. Water Resources Research, 2011, 47, .	4.2	197
24	Calibration and uncertainty analysis of the SWAT model using Genetic Algorithms and Bayesian Model Averaging. Journal of Hydrology, 2009, 374, 307-317.	5.6	191
25	Introducing a new open source GIS user interface for the SWAT model. Environmental Modelling and Software, 2016, 85, 129-138.	4.6	162
26	Possible Impacts of Global Warming on the Hydrology of the Ogallala Aquifer Region. Climatic Change, 1999, 42, 677-692.	3.7	157
27	ARCGIS-SWAT: A GEODATA MODEL AND GIS INTERFACE FOR SWAT. Journal of the American Water Resources Association, 2006, 42, 295-309.	2.4	148
28	INTEGRATION OF WATERSHED TOOLS AND SWAT MODEL INTO BASINS. Journal of the American Water Resources Association, 2002, 38, 1127-1141.	2.4	140
29	Analyses of the impact of climate change on water resources components, drought and wheat yield in semiarid regions: Karkheh River Basin in Iran. Hydrological Processes, 2014, 28, 2018-2032.	2.6	139
30	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.	2.4	138
31	A parallelization framework for calibration of hydrological models. Environmental Modelling and Software, 2012, 31, 28-36.	4.6	136
32	Evaluation of global optimization algorithms for parameter calibration of a computationally intensive hydrologic model. Hydrological Processes, 2009, 23, 430-441.	2.6	135
33	A GISâ€Coupled Hydrological Model System for the Watershed Assessment of Agricultural Nonpoint and Point Sources of Pollution. Transactions in GIS, 2004, 8, 113-136.	2.3	130
34	Development and Integration of Sub-hourly Rainfallâ€“Runoff Modeling Capability Within a Watershed Model. Water Resources Management, 2010, 24, 4505-4527.	4.0	129
35	Assessing the capability of the SWAT model to simulate snow, snow melt and streamflow dynamics over an alpine watershed. Journal of Hydrology, 2015, 531, 574-588.	5.6	129
36	Simulation of Agricultural Management Alternatives for Watershed Protection. Water Resources Management, 2010, 24, 3115-3144.	4.0	127

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37	A model integration framework for linking SWAT and MODFLOW. Environmental Modelling and Software, 2015, 73, 103-116.	4.6	126
38	Impact of model development, calibration and validation decisions on hydrological simulations in West Lake Erie Basin. Hydrological Processes, 2015, 29, 5307-5320.	2.6	119
39	Comparison of Process-Based and Temperature-Index Snowmelt Modeling in SWAT. Water Resources Management, 2010, 24, 1065-1088.	4.0	118
40	Coupling upland watershed and downstream waterbody hydrodynamic and water quality models (SWAT and CE-QUAL-W2) for better water resources management in complex river basins. Environmental Modeling and Assessment, 2008, 13, 135-153.	2.2	116
41	Assessing potential land suitable for surface irrigation using groundwater in Ethiopia. Applied Geography, 2017, 85, 1-13.	3.8	115
42	Approximating SWAT Model Using Artificial Neural Network and Support Vector Machine¹. Journal of the American Water Resources Association, 2009, 45, 460-474.	2.4	114
43	On the use of multiâ€algorithm, genetically adaptive multiâ€objective method for multiâ€site calibration of the SWAT model. Hydrological Processes, 2010, 24, 955-969.	2.6	107
44	Effect of GIS data quality on small watershed stream flow and sediment simulations. Hydrological Processes, 2005, 19, 629-650.	2.6	97
45	A Review of SWAT Studies in Southeast Asia: Applications, Challenges and Future Directions. Water (Switzerland), 2019, 11, 914.	2.8	96
46	Return-flow assessment for irrigation command in the Palleru river basin using SWAT model. Hydrological Processes, 2005, 19, 673-682.	2.6	92
47	Assessment of climate change impacts on streamflow and hydropower potential in the headwater region of the Grande river basin, Southeastern Brazil. International Journal of Climatology, 2017, 37, 5005-5023.	3.5	89
48	GISâ€Based Spatial Precipitation Estimation: A Comparison of Geostatistical Approaches¹. Journal of the American Water Resources Association, 2009, 45, 894-906.	2.4	87
49	Analysis of streamflow responses to climate variability and land use change in the Loess Plateau region of China. Catena, 2017, 154, 1-11.	5.1	87
50	Using Satellite and Field Data with Crop Growth Modeling to Monitor and Estimate Corn Yield in Mexico. Crop Science, 2002, 42, 1943-1949.	1.9	81
51	Safety effectiveness of converting signalized intersections to roundabouts. Accident Analysis and Prevention, 2013, 50, 234-241.	5.8	81
52	Hydrologic Modelling of the United States with the Soil and Water Assessment Tool. International Journal of Water Resources Development, 1998, 14, 315-325.	2.2	79
53	Efficient multi-objective calibration of a computationally intensive hydrologic model with parallel computing software in Python. Environmental Modelling and Software, 2013, 46, 208-218.	4.6	79
54	Using the SWAT model to assess the impacts of changing irrigation from surface to pressurized systems on water productivity and water saving in the Zarrineh Rud catchment. Agricultural Water Management, 2016, 175, 15-28.	5.7	77

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55	Assessing the implications of water harvesting intensification on upstreamâ€“downstream ecosystem services: A case study in the Lake Tana basin. Science of the Total Environment, 2016, 542, 22-35.	8.2	77
56	PREDICTION OF TWO-YEAR PEAK STREAM-DISCHARGES USING NEURAL NETWORKS. Journal of the American Water Resources Association, 1997, 33, 625-630.	2.4	76
57	Evaluation of SWAT models performance to simulate streamflow spatial origin. The case of a small forested watershed. Journal of Hydrology, 2015, 525, 326-334.	5.6	75
58	Setting up a hydrological model of Alberta: Data discrimination analyses prior to calibration. Environmental Modelling and Software, 2015, 74, 48-65.	4.6	74
59	Global soil, landuse, evapotranspiration, historical and future weather databases for SWAT Applications. Scientific Data, 2019, 6, 263.	5.4	74
60	Comparison of raingage and WSR-88D Stage III precipitation data over the Texas-Gulf basin. Journal of Hydrology, 2004, 292, 135-152.	5.6	73
61	Regional scale hydrologic modeling for prediction of water balance, analysis of trends in streamflow and variations in streamflow: The case study of the Ganga River basin. Journal of Hydrology: Regional Studies, 2018, 16, 32-53.	2.5	73
62	Estimating uncertainty of streamflow simulation using Bayesian neural networks. Water Resources Research, 2009, 45, .	4.2	70
63	Direct rolling of as-cast Tiâ€“6Alâ€“4V modified with trace additions of boron. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 541-551.	5.6	66
64	Modifying the Soil and Water Assessment Tool to simulate cropland carbon flux: Model development and initial evaluation. Science of the Total Environment, 2013, 463-464, 810-822.	8.2	66
65	Water resources of the Black Sea Basin at high spatial and temporal resolution. Water Resources Research, 2014, 50, 5866-5885.	4.2	65
66	Advances in water resources research in the Upper Blue Nile basin and the way forward: A review. Journal of Hydrology, 2018, 560, 407-423.	5.6	65
67	Nonpoint Source (NPS) Pollution Modeling Using Models Integrated with Geographic Information Systems (GIS). Water Science and Technology, 1993, 28, 685-690.	2.5	64
68	Assessment of climate and land use change impacts with SWAT. Regional Environmental Change, 2015, 15, 431-434.	2.9	64
69	An automated cloud detection method for daily NOAA-14 AVHRR data for Texas, USA. International Journal of Remote Sensing, 2002, 23, 2939-2950.	3.0	63
70	Satellite observations and modeling to understand the Lower Mekong River Basin streamflow variability. Journal of Hydrology, 2018, 564, 559-573.	5.6	63
71	ESTIMATION OF LONG-TERM SOIL MOISTURE USING A DISTRIBUTED PARAMETER HYDROLOGIC MODEL AND VERIFICATION USING REMOTELY SENSED DATA. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1101-1113.	0.5	62
72	Integration of hydrologic and water allocation models in basin-scale water resources management considering crop pattern and climate change: Karkheh River Basin in Iran. Regional Environmental Change, 2015, 15, 475-484.	2.9	61

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73	Improved Hydrological Decision Support System for the Lower Mekong River Basin Using Satellite-Based Earth Observations. Remote Sensing, 2018, 10, 885.	4.1	61
74	Assessment of seasonal and spatial variation of surface water quality, identification of factors associated with water quality variability, and the modeling of critical nonpoint source pollution areas in an agricultural watershed. Journal of Soils and Water Conservation, 2013, 68, 155-171.	1.6	60
75	Extension and validation of a geographic information system-based method for calculating the Revised Universal Soil Loss Equation length-slope factor for erosion risk assessments in large watersheds. Journal of Soils and Water Conservation, 2008, 63, 105-111.	1.6	59
76	Analysis of the Frequency and Severity of Rear-End Crashes in Work Zones. Traffic Injury Prevention, 2013, 14, 61-72.	1.5	55
77	Improving SWAT auto-irrigation functions for simulating agricultural irrigation management using long-term lysimeter field data. Environmental Modelling and Software, 2018, 99, 25-38.	4.6	55
78	Improved simulation of river water and groundwater exchange in an alluvial plain using the SWAT model. Hydrological Processes, 2016, 30, 187-202.	2.6	54
79	Use of Decision Tables to Simulate Management in SWAT+. Water (Switzerland), 2018, 10, 713.	2.8	54
80	Modeling the effects of climate change on hydrology and sediment load in a headwater basin in the Brazilian Cerrado biome. Ecological Engineering, 2019, 133, 20-31.	3.7	54
81	Development of reservoir operation functions in SWAT+ for national environmental assessments. Journal of Hydrology, 2020, 583, 124556.	5.6	54
82	Evaluation of bioenergy crop growth and the impacts of bioenergy crops on streamflow, tile drain flow and nutrient losses in an extensively tile-drained watershed using SWAT. Science of the Total Environment, 2018, 613-614, 724-735.	8.2	51
83	Modeling Streamflow and Water Quality Sensitivity to Climate Change and Urban Development in 20 U.S. Watersheds. Journal of the American Water Resources Association, 2015, 51, 1321-1341.	2.4	50
84	Evaluating the Impact of Low Impact Development (LID) Practices on Water Quantity and Quality under Different Development Designs Using SWAT. Water (Switzerland), 2017, 9, 193.	2.8	50
85	Groundwater Modeling Under Variable Operating Conditions Using SWAT, MODFLOW and MT3DMS: a Catchment Scale Approach to Water Resources Management. Water Resources Management, 2018, 32, 1631-1649.	4.0	50
86	Simulating the impacts of climate change on hydrology and crop production in the Northern High Plains of Texas using an improved SWAT model. Agricultural Water Management, 2019, 221, 13-24.	5.7	50
87	A refined regional modeling approach for the Corn Belt â€“ Experiences and recommendations for large-scale integrated modeling. Journal of Hydrology, 2015, 524, 348-366.	5.6	49
88	Evaluating runoff and sediment responses to soil and water conservation practices by employing alternative modeling approaches. Science of the Total Environment, 2020, 747, 141118.	8.2	49
89	Assessing the hydrological response from an ensemble of CMIP5 climate projections in the transition zone of the Atlantic region (Bay of Biscay). Journal of Hydrology, 2017, 548, 46-62.	5.6	48
90	Estimation of managed loblolly pine stand age and density with Landsat ETM+ data. Forest Ecology and Management, 2006, 223, 247-254.	3.3	47

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91	Accuracy evaluation of weather data generation and disaggregation methods at finer timescales. Advances in Water Resources, 2007, 30, 1286-1300.	3.8	47
92	Temporal-spatial dynamics of vegetation variation on non-point source nutrient pollution. Ecological Modelling, 2009, 220, 2702-2713.	2.5	47
93	Assessment of the soil water content in the Pampas region using SWAT. Catena, 2016, 137, 298-309.	5.1	47
94	Hydrological modelling of the Vistula and Odra river basins using SWAT. Hydrological Sciences Journal, 2017, 62, 1266-1289.	2.7	47
95	Effect of Laser Power and Scan Speed on Melt Pool Characteristics of Commercially Pure Titanium (CP-Ti). Journal of Materials Engineering and Performance, 2017, 26, 3560-3568.	2.4	47
96	Evaluating Hydrological Models for Deriving Water Resources in Peninsular Spain. Sustainability, 2019, 11, 2872.	3.3	47
97	Mapping Land Use Land Cover Change in the Lower Mekong Basin From 1997 to 2010. Frontiers in Environmental Science, 2020, 8, .	3.3	47
98	Western Lake Erie Basin: Soft-data-constrained, NHDPlus resolution watershed modeling and exploration of applicable conservation scenarios. Science of the Total Environment, 2016, 569-570, 1265-1281.	8.2	46
99	Application date as a controlling factor of pesticide transfers to surface water during runoff events. Catena, 2014, 119, 97-103.	5.1	45
100	Analysis of rainfall extremes and water yield of Krishna river basin under future climate scenarios. Journal of Hydrology: Regional Studies, 2018, 19, 287-306.	2.5	45
101	Evaluating satellite-based evapotranspiration estimates for hydrological applications in data-scarce regions: A case in Ethiopia. Science of the Total Environment, 2020, 743, 140702.	8.2	45
102	Evaluating different NDVI composite techniques using NOAA-14 AVHRR data. International Journal of Remote Sensing, 2003, 24, 3403-3412.	3.0	44
103	Accuracy of grid precipitation data for Brazil: application in river discharge modelling of the Tocantins catchment. Hydrological Processes, 2016, 30, 1419-1430.	2.6	44
104	Fit-for-purpose analysis of uncertainty using split-sampling evaluations. Hydrological Sciences Journal, 2008, 53, 1090-1103.	2.7	43
105	Spatio-temporal analysis of rainfall extremes in the flood-prone Nagavali and Vamsadhara Basins in eastern India. Weather and Climate Extremes, 2020, 29, 100265.	4.2	43
106	LUMINATE: linking agricultural land use, local water quality and Gulf of Mexico hypoxia. European Review of Agricultural Economics, 2014, 41, 431-459.	3.1	42
107	Effect of climate change on land suitability for surface irrigation and irrigation potential of the shallow groundwater in Ghana. Computers and Electronics in Agriculture, 2019, 157, 110-125.	7.9	42
108	SWAT ungauged: Water quality modeling in the Upper Mississippi River Basin. Journal of Hydrology, 2020, 584, 124601.	5.6	41

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109	Application of Large-Scale, Multi-Resolution Watershed Modeling Framework Using the Hydrologic and Water Quality System (HAWQS). Water (Switzerland), 2016, 8, 164.	2.8	40
110	Comparison of performance of tile drainage routines in SWAT 2009 and 2012 in an extensively tile-drained watershed in the Midwest. Hydrology and Earth System Sciences, 2018, 22, 89-110.	5.0	40
111	Contacts between domestic livestock and wildlife at the Kruger National Park Interface of the Republic of South Africa. Preventive Veterinary Medicine, 2012, 103, 16-21.	1.9	39
112	Assessing the Impact of Best Management Practices in a Highly Anthropogenic and Ungauged Watershed Using the SWAT Model: A Case Study in the El Beal Watershed (Southeast Spain). Agronomy, 2019, 9, 576.	3.1	39
113	Evaluation of Three Watershedâ€Scale Pesticide Environmental Transport and Fate Models¹. Journal of the American Water Resources Association, 2007, 43, 1424-1443.	2.4	38
114	Effect of Climate Change on Hydrology, Sediment and Nutrient Losses in Two Lowland Catchments in Poland. Water (Switzerland), 2017, 9, 156.	2.8	38
115	Simulating sub-daily hydrological process with SWAT: a review. Hydrological Sciences Journal, 2019, 64, 1415-1423.	2.7	38
116	VALIDATION OF AGNPS FOR SMALL WATERSHEDS USING AN INTEGRATED AGNPS/GIS SYSTEM. Journal of the American Water Resources Association, 1993, 29, 833-842.	2.4	37
117	The Impact of El NiÃ±o/Southern Oscillation on Hydrology and Rice Productivity in the Cauvery Basin, India: Application of the Soil and Water Assessment Tool. Weather and Climate Extremes, 2013, 2, 39-47.	4.2	37
118	Surface water quality and cropping systems sustainability under a changing climate in the Upper Mississippi River Basin. Journal of Soils and Water Conservation, 2014, 69, 483-494.	1.6	37
119	Climate Change Impacts on US Water Quality Using Two Models: HAWQS and US Basins. Water (Switzerland), 2017, 9, 118.	2.8	37
120	Assessment of site-specific agricultural Best Management Practices in the Upper East River watershed, Wisconsin, using a field-scale SWAT model. Journal of Great Lakes Research, 2019, 45, 619-641.	2.1	37
121	Modeling Crop Water Productivity Using a Coupled SWATâ€“MODSIM Model. Water (Switzerland), 2017, 9, 157.	2.8	36
122	IPEAT+: A Built-In Optimization and Automatic Calibration Tool of SWAT+. Water (Switzerland), 2019, 11, 1681.	2.8	36
123	Estimation of Calibration Functions for Predicting Crashes on Rural Two-Lane Roads in Arizona. Transportation Research Record, 2016, 2583, 17-24.	1.8	35
124	Assessing the Efficacy of the SWAT Auto-Irrigation Function to Simulate Irrigation, Evapotranspiration, and Crop Response to Management Strategies of the Texas High Plains. Water (Switzerland), 2017, 9, 509.	2.8	35
125	Climate change impact assessment on water resources under <scp>RCP</scp> scenarios: A case study in MundaÃº River Basin, Northeastern Brazil. International Journal of Climatology, 2021, 41, E1045.	3.5	35
126	GIS-based spatial precipitation estimation using next generation radar and raingauge data. Environmental Modelling and Software, 2010, 25, 1781-1788.	4.6	34

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127	Evaluation of new farming technologies in Ethiopia using the Integrated Decision Support System (IDSS). Agricultural Water Management, 2017, 180, 267-279.	5.7	34
128	Basin-wide water accounting based on modified SWAT model and WA+ framework for better policy making. Journal of Hydrology, 2020, 585, 124762.	5.6	33
129	Modeled effects of moderate and strong `Los NiÃ±os' on crop productivity in North America. Agricultural and Forest Meteorology, 1999, 94, 259-268.	4.8	32
130	Hydrologic Modeling of a Canal-Irrigated Agricultural Watershed with Irrigation Best Management Practices: Case Study. Journal of Hydrologic Engineering - ASCE, 2011, 16, 746-757.	2.2	32
131	Atmospheric Nitrogen Flux from the Watersheds of Major Estuaries of the United States: An Application of the SPARROW Watershed Model. Coastal and Estuarine Studies, 0, , 119-170.	0.0	32
132	Estimating Evapotranspiration for Dryland Cropping Systems in the Semiarid Texas High Plains Using <scp>SWAT</scp>. Journal of the American Water Resources Association, 2016, 52, 298-314.	2.4	32
133	Assessing basin blueâ€“green available water components under different management and climate scenarios using SWAT. Agricultural Water Management, 2021, 256, 107074.	5.7	32
134	Rolling of Plates and Sheets from As-Cast Ti-6Al-4V-0.1B. Journal of Materials Engineering and Performance, 2009, 18, 390-398.	2.4	31
135	Crash Modification Factors. Transportation Research Record, 2012, 2279, 67-74.	1.8	31
136	Daily Nitrate Losses: Implication on Long-Term River Quality in an Intensive Agricultural Catchment of Southwestern France. Journal of Environmental Quality, 2014, 43, 46-54.	2.9	31
137	Low-Velocity Impact Behavior of Sandwich Structures with Additively Manufactured Polymer Lattice Cores. Journal of Materials Engineering and Performance, 2018, 27, 2505-2512.	2.4	31
138	Web-based decision support system tools: The Soil and Water Assessment Tool Online visualization and analyses (SWATOnline) and NASA earth observation data downloading and reformatting tool (NASAaccess). Environmental Modelling and Software, 2019, 120, 104499.	4.6	31
139	Modelling the effect of riparian vegetation restoration on sediment transport in a humanâ€impacted Brazilian catchment. Ecohydrology, 2016, 9, 1289-1303.	2.4	30
140	Ground and satellite based observation datasets for the Lower Mekong River Basin. Data in Brief, 2018, 21, 2020-2027.	1.1	30
141	Assessment of Suitable Areas for Home Gardens for Irrigation Potential, Water Availability, and Water-Lifting Technologies. Water (Switzerland), 2018, 10, 495.	2.8	30
142	Evaluation of Satellite-Based Rainfall Estimates in the Lower Mekong River Basin (Southeast Asia). Remote Sensing, 2019, 11, 2709.	4.1	30
143	Enhancing SWAT simulation of forest ecosystems for water resource assessment: A case study in the St. Croix River basin. Ecological Engineering, 2018, 120, 422-431.	3.7	29
144	Largeâ€Scale Fineâ€Resolution Hydrological Modeling Using Parameter Regionalization in the Missouri River Basin. Journal of the American Water Resources Association, 2016, 52, 648-666.	2.4	28

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145	Glacier mass balance simulation using SWAT distributed snow algorithm. Hydrological Sciences Journal, 2017, 62, 546-560.	2.7	28
146	Integrating multimedia models to assess nitrogen losses from the Mississippi River basin to the Gulf of Mexico. Biogeosciences, 2018, 15, 7059-7076.	3.4	28
147	Calibration of a Field-Scale Soil and Water Assessment Tool (SWAT) Model with Field Placement of Best Management Practices in Alger Creek, Michigan. Sustainability, 2018, 10, 851.	3.3	28
148	SUBWATERSHED SPATIAL ANALYSIS TOOL: DISCRETIZATION OF A DISTRIBUTED HYDROLOGIC MODEL BY STATISTICAL CRITERIA. Journal of the American Water Resources Association, 2002, 38, 1723-1733.	2.4	27
149	Analysis of alternative climate datasets and evapotranspiration methods for the Upper Mississippi River Basin using SWAT within HAWQS. Science of the Total Environment, 2020, 720, 137562.	8.2	27
150	SIMULATED IMPACTS OF EL NINO/SOUTHERN OSCILLATION ON UNITED STATES WATER RESOURCES. Journal of the American Water Resources Association, 2003, 39, 137-148.	2.4	26
151	Assessing the Impact of Site-Specific BMPs Using a Spatially Explicit, Field-Scale SWAT Model with Edge-of-Field and Tile Hydrology and Water-Quality Data in the Eagle Creek Watershed, Ohio. Water (Switzerland), 2018, 10, 1299.	2.8	26
152	Soil moisture and discharge modeling in a representative watershed in northeastern Brazil using SWAT. Ecohydrology and Hydrobiology, 2019, 19, 238-251.	2.4	26
153	Simulating the effects of agricultural production practices on water conservation and crop yields using an improved SWAT model in the Texas High Plains, USA. Agricultural Water Management, 2021, 244, 106574.	5.7	26
154	Eucalyptus tree stockings effect on water balance and use efficiency in subtropical sandy soil. Forest Ecology and Management, 2021, 497, 119473.	3.3	26
155	Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments. Transportation Research Record, 2017, 2636, 1-8.	1.8	26
156	Characterization of Fate and Transport of Isoxaflutole, a Soil-Applied Corn Herbicide, in Surface Water Using a Watershed Model. Journal of Agricultural and Food Chemistry, 2005, 53, 8848-8858.	5.3	25
157	Safety Effectiveness of Selected Treatments at Urban Signalized Intersections. Transportation Research Record, 2008, 2056, 70-76.	1.8	25
158	Crash Modification Factors for Changes to Left-Turn Phasing. Transportation Research Record, 2012, 2279, 108-117.	1.8	25
159	Modeling the effects of land use change from cotton (Gossypium hirsutum L.) to perennial bioenergy grasses on watershed hydrology and water quality under changing climate. Agricultural Water Management, 2017, 192, 198-208.	5.7	25
160	Field_SWAT: A tool for mapping SWAT output to field boundaries. Computers and Geosciences, 2012, 40, 175-184.	4.3	24
161	Forecasting changes in water quality in rivers associated with growing biofuels in the Arkansasâ€Whiteâ€Red river drainage, <scp>USA</scp>. GCB Bioenergy, 2015, 7, 774-784.	5.7	24
162	Modeling freshwater quality scenarios with ecosystem-based adaptation in the headwaters of the Cantareira system, Brazil. Hydrology and Earth System Sciences, 2018, 22, 4699-4723.	5.0	24

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163	Effect and side-effect assessment of different agricultural water saving measures in an integrated framework. Agricultural Water Management, 2019, 223, 105685.	5.7	24
164	Multi-Step Calibration Approach for SWAT Model Using Soil Moisture and Crop Yields in a Small Agricultural Catchment. Water (Switzerland), 2021, 13, 2238.	2.8	24
165	Environmental and ecological hydroinformatics to support the implementation of the European Water Framework Directive for river basin management. Journal of Hydroinformatics, 2006, 8, 239-252.	2.4	23
166	Hydrologic Evaluation of a Mediterranean Watershed Using the SWAT Model with Multiple PET Estimation Methods. Transactions of the ASABE, 2011, 54, 1615-1625.	1.3	23
167	Modeling Sedimentation-Filtration Basins for Urban Watersheds Using Soil and Water Assessment Tool. Journal of Environmental Engineering, ASCE, 2013, 139, 838-848.	1.3	23
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