

Hoshin Gupta

List of Publications by Year in descending order

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230
papers

37,664
citations

7096

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3182

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240
docs citations

240
times ranked

18244
citing authors

#	ARTICLE	IF	CITATIONS
1	NowCasting-Nets: Representation Learning to Mitigate Latency Gap of Satellite Precipitation Products Using Convolutional and Recurrent Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-21.	6.3	15
2	Exploring the Potential of Long Short-Term Memory Networks for Improving Understanding of Continental and Regional Scale Snowpack Dynamics. Water Resources Research, 2022, 58, .	4.2	3
3	On the Calibration of Spatially Distributed Hydrologic Models for Poorly Gauged Basins: Exploiting Information from Streamflow Signatures and Remote Sensing-Based Evapotranspiration Data. Water (Switzerland), 2022, 14, 1252.	2.7	3
4	Predicting wildfire induced changes to runoff: A review and synthesis of modeling approaches. Wiley Interdisciplinary Reviews: Water, 2022, 9, .	6.5	5
5	Achieving Robust and Transferable Performance for Conservation-Based Models of Dynamical Physical Systems. Water Resources Research, 2022, 58, .	4.2	8
6	Deep learning rainfall-runoff predictions of extreme events. Hydrology and Earth System Sciences, 2022, 26, 3377-3392.	4.9	55
7	What Role Does Hydrological Science Play in the Age of Machine Learning?. Water Resources Research, 2021, 57, e2020WR028091.	4.2	196
8	How certain are our uncertainty bounds? Accounting for sample variability in Monte Carlo-based uncertainty estimates. Environmental Modelling and Software, 2021, 136, 104931.	4.5	2
9	The Future of Sensitivity Analysis: An essential discipline for systems modeling and policy support. Environmental Modelling and Software, 2021, 137, 104954.	4.5	209
10	The timing and magnitude of changes to Hortonian overland flow at the watershed scale during the post-fire recovery process. Hydrological Processes, 2021, 35, e14208.	2.6	15
11	Understanding the Information Content in the Hierarchy of Model Development Decisions: Learning From Data. Water Resources Research, 2021, 57, e2020WR027948.	4.2	22
12	Computing Accurate Probabilistic Estimates of One-D Entropy from Equiprobable Random Samples. Entropy, 2021, 23, 740.	2.2	3
13	Multi-criteria, time dependent sensitivity analysis of an event-oriented, physically-based, distributed sediment and runoff model. Journal of Hydrology, 2021, 598, 126268.	5.4	9
14	Evaluation of NOAA National Water Model Parameter Calibration in Semi-Arid Environments Prone to Channel Infiltration. Journal of Hydrometeorology, 2021, , .	1.9	10
15	Improved Flood Forecasting in Basins With No Precipitation Stations: Constrained Runoff Correction Using Multiple Satellite Precipitation Products. Water Resources Research, 2021, 57, e2021WR029682.	4.2	9
16	Detailed overview of the multimodel multiproduct streamflow forecasting platform. Journal of Applied Water Engineering and Research, 2020, 8, 277-289.	1.8	6
17	Improving Information Extraction From Simulated Discharge Using Sensitivity-Weighted Performance Criteria. Water Resources Research, 2020, 56, e2019WR025605.	4.2	2
18	Why Is the Terrestrial Water Storage in Dryland Regions Declining? A Perspective Based on Gravity Recovery and Climate Experiment Satellite Observations and Noah Land Surface Model With Multiparameterization Schemes Model Simulations. Water Resources Research, 2020, 56, e2020WR027102.	4.2	18

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19	Identification of climate variables dominating streamflow generation and quantification of streamflow decline in the Loess Plateau, China. <i>Science of the Total Environment</i> , 2020, 722, 137935.	8.0	23
20	Evaluating Uncertainty in Fluvial Geomorphic Response to Dam Removal. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, .	1.9	4
21	Debatesâ€™ Does Information Theory Provide a New Paradigm for Earth Science?. <i>Water Resources Research</i> , 2020, 56, e2019WR026398.	4.2	10
22	The physics of river prediction. <i>Physics Today</i> , 2020, 73, 46-52.	0.3	12
23	On the Robustness of Conceptual Rainfallâ€™Runoff Models to Calibration and Evaluation Data Set Splits Selection: A Large Sample Investigation. <i>Water Resources Research</i> , 2020, 56, e2019WR026752.	4.2	29
24	Assessing the performance and robustness of two conceptual rainfall-runoff models on a worldwide sample of watersheds. <i>Journal of Hydrology</i> , 2020, 585, 124698.	5.4	31
25	Does Information Theory Provide a New Paradigm for Earth Science? Hypothesis Testing. <i>Water Resources Research</i> , 2020, 56, e2019WR024918.	4.2	33
26	Investigation of the relationship between precipitation extremes and sediment discharge production under extensive land cover change in the Chinese Loess Plateau. <i>Geomorphology</i> , 2020, 361, 107176.	2.6	12
27	On the Reliability of Variableâ€™Rate Pumping Test Results: Sensitivity to Information Content of the Recorded Data. <i>Water Resources Research</i> , 2020, 56, e2019WR026961.	4.2	7
28	A universal multifractal approach to assessment of spatiotemporal extreme precipitation over the Loess Plateau of China. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 809-826.	4.9	25
29	Advancing Precipitation Estimation, Prediction, and Impact Studies. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1584-E1592.	3.3	14
30	Parameter Sensitivity Analysis for Computationally Intensive Spatially Distributed Dynamical Environmental Systems Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2896-2909.	3.8	21
31	On the choice of calibration metrics for â€™high-flowâ€™ estimation using hydrologic models. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2601-2614.	4.9	110
32	Robust Predictive Design of Field Measurements for Evapotranspiration Barriers Using Universal Multiple linear Regression. <i>Water Resources Research</i> , 2019, 55, 8478-8491.	4.2	0
33	Toward Improved Probabilistic Predictions for Flood Forecasts Generated Using Deterministic Models. <i>Water Resources Research</i> , 2019, 55, 9519-9543.	4.2	12
34	Formulating an Elasticity Approach to Quantify the Effects of Climate Variability and Ecological Restoration on Sediment Discharge Change in the Loess Plateau, China. <i>Water Resources Research</i> , 2019, 55, 9604-9622.	4.2	21
35	Climatic forcing for recent significant terrestrial drying and wetting. <i>Advances in Water Resources</i> , 2019, 133, 103425.	3.8	24
36	Improved Dynamic System Response Curve Method for Realâ€™Time Flood Forecast Updating. <i>Water Resources Research</i> , 2019, 55, 7493-7519.	4.2	18

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37	A topographic index explaining hydrological similarity by accounting for the joint controls of runoff formation. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3807-3821.	4.9	29
38	Statistical Analysis of Discharge Fluctuations in a Semiarid Basin Using Effective Atmospheric Teleconnections: Dez River Basin in Iran. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019, 24, .	1.9	7
39	Enhancing the Structure of the WRF-Hydro Hydrologic Model for Semiarid Environments. <i>Journal of Hydrometeorology</i> , 2019, 20, 691-714.	1.9	44
40	Assessing water security in the SÃ£o Paulo metropolitan region under projected climate change. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4955-4968.	4.9	23
41	Global sensitivity analysis for high-dimensional problems: How to objectively group factors and measure robustness and convergence while reducing computational cost. <i>Environmental Modelling and Software</i> , 2019, 111, 282-299.	4.5	53
42	A multi-method Generalized Global Sensitivity Matrix approach to accounting for the dynamical nature of earth and environmental systems models. <i>Environmental Modelling and Software</i> , 2019, 114, 1-11.	4.5	26
43	VARs-TOOL: A toolbox for comprehensive, efficient, and robust sensitivity and uncertainty analysis. <i>Environmental Modelling and Software</i> , 2019, 112, 95-107.	4.5	62
44	On Lack of Robustness in Hydrological Model Development Due to Absence of Guidelines for Selecting Calibration and Evaluation Data: Demonstration for Data-Driven Models. <i>Water Resources Research</i> , 2018, 54, 1013-1030.	4.2	71
45	Circulation pattern-based assessment of projected climate change for a catchment in Spain. <i>Journal of Hydrology</i> , 2018, 556, 944-960.	5.4	3
46	Evaluating the Impacts of a Large-Scale Multi-Reservoir System on Flooding: Case of the Huai River in China. <i>Water Resources Management</i> , 2018, 32, 1013-1033.	3.9	11
47	Revisiting the Basis of Sensitivity Analysis for Dynamical Earth System Models. <i>Water Resources Research</i> , 2018, 54, 8692-8717.	4.2	58
48	An Information Theory Approach to Identifying a Representative Subset of Hydro-climatic Simulations for Impact Modeling Studies. <i>Water Resources Research</i> , 2018, 54, 5422-5435.	4.2	16
49	Multihazard Scenarios for Analysis of Compound Extreme Events. <i>Geophysical Research Letters</i> , 2018, 45, 5470-5480.	4.0	139
50	On the dynamic nature of hydrological similarity. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3663-3684.	4.9	42
51	Ensembles vs. information theory: supporting science under uncertainty. <i>Frontiers of Earth Science</i> , 2018, 12, 653-660.	2.1	21
52	Assessing hydrological impacts of short-term climate change in the Mara River basin of East Africa. <i>Journal of Hydrology</i> , 2018, 566, 818-829.	5.4	15
53	Impact of Irrigation over the California Central Valley on Regional Climate. <i>Journal of Hydrometeorology</i> , 2017, 18, 1341-1357.	1.9	46
54	Hydrological model parameterization using NDVI values to account for the effects of land cover change on the rainfall-runoff response. <i>Hydrology Research</i> , 2017, 48, 1455-1473.	2.7	9

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55	A platform for probabilistic Multimodel and Multiproduct Streamflow Forecasting. <i>Water Resources Research</i> , 2017, 53, 376-399.	4.2	32
56	A Hydrometeorological Perspective on the Karakoram Anomaly Using Unique Valley-Based Synoptic Weather Observations. <i>Geophysical Research Letters</i> , 2017, 44, 10,470.	4.0	54
57	Design and implementation of an operational multimodel multiproduct real-time probabilistic streamflow forecasting platform. <i>Journal of Hydroinformatics</i> , 2017, 19, 911-919.	2.4	7
58	Challenges and Future Outlook of Sensitivity Analysis. , 2017, , 397-415.		7
59	Using satellite-based evapotranspiration estimates to improve the structure of a simple conceptual rainfall-runoff model. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 879-896.	4.9	37
60	Modeling the distributed effects of forest thinning on the long-term water balance and streamflow extremes for a semi-arid basin in the southwestern US. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1241-1267.	4.9	21
61	Impact of the Three Gorges Dam on the Hydrology and Ecology of the Yangtze River. <i>Water (Switzerland)</i> , 2016, 8, 590.	2.7	41
62	Efficient estimation of flood forecast prediction intervals via single- and multi-objective versions of the LUBE method. <i>Hydrological Processes</i> , 2016, 30, 2703-2716.	2.6	45
63	On characterizing the temporal dominance patterns of model parameters and processes. <i>Hydrological Processes</i> , 2016, 30, 2255-2270.	2.6	43
64	Urban Effects on Regional Climate: A Case Study in the Phoenix and Tucson "Sun Corridor". <i>Earth Interactions</i> , 2016, 20, 1-25.	1.5	26
65	A philosophical basis for hydrological uncertainty. <i>Hydrological Sciences Journal</i> , 2016, 61, 1666-1678.	2.6	98
66	Demasking the integrated information of discharge: Advancing sensitivity analysis to consider different hydrological components and their rates of change. <i>Water Resources Research</i> , 2016, 52, 8724-8743.	4.2	26
67	A new framework for comprehensive, robust, and efficient global sensitivity analysis: 1. Theory. <i>Water Resources Research</i> , 2016, 52, 423-439.	4.2	132
68	A new framework for comprehensive, robust, and efficient global sensitivity analysis: 2. Application. <i>Water Resources Research</i> , 2016, 52, 440-455.	4.2	94
69	Robust informational entropy-based descriptors of flow in catchment hydrology. <i>Hydrological Sciences Journal</i> , 2016, 61, 1-18.	2.6	38
70	The soil water characteristic as new class of closed-form parametric expressions for the flow duration curve. <i>Journal of Hydrology</i> , 2016, 535, 438-456.	5.4	18
71	Bringing all the stories together: Beyond the Tucson case study. <i>IHE Delft Lecture Note Series</i> , 2016, , 401-415.	0.0	0
72	Updating real-time flood forecasts via the dynamic system response curve method. <i>Water Resources Research</i> , 2015, 51, 5128-5144.	4.2	40

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73	Are we unnecessarily constraining the agility of complex process-based models?. Water Resources Research, 2015, 51, 716-728.	4.2	123
74	Assessing uncertainties in surface water security: An empirical multimodel approach. Water Resources Research, 2015, 51, 9013-9028.	4.2	14
75	Diagnostic calibration of a hydrological model in a mountain area by hydrograph partitioning. Hydrology and Earth System Sciences, 2015, 19, 1807-1826.	4.9	40
76	The quantity and quality of information in hydrologic models. Water Resources Research, 2015, 51, 524-538.	4.2	85
77	Impacts of rainfall spatial variability on hydrogeological response. Water Resources Research, 2015, 51, 1300-1314.	4.2	40
78	Comparing expert judgement and numerical criteria for hydrograph evaluation. Hydrological Sciences Journal, 2015, 60, 402-423.	2.6	46
79	Implication of remotely sensed data to incorporate land cover effect into a linear reservoir-based rainfall-runoff model. Journal of Hydrology, 2015, 529, 94-105.	5.4	8
80	Contrasting American and Brazilian Systems for Water Allocation and Transfers. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	14
81	A multi-criteria penalty function approach for evaluating a priori model parameter estimates. Journal of Hydrology, 2015, 525, 165-177.	5.4	5
82	What do we mean by sensitivity analysis? The need for comprehensive characterization of "global" sensitivity in earth and environmental systems models. Water Resources Research, 2015, 51, 3070-3092.	4.2	230
83	Toward a comprehensive assessment of the combined impacts of climate change and groundwater pumping on catchment dynamics. Journal of Hydrology, 2015, 529, 1701-1712.	5.4	13
84	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	4.9	83
85	A constraint-based search algorithm for parameter identification of environmental models. Hydrology and Earth System Sciences, 2014, 18, 4861-4870.	4.9	26
86	Large-sample hydrology: a need to balance depth with breadth. Hydrology and Earth System Sciences, 2014, 18, 463-477.	4.9	208
87	Physical Mechanisms Related to Climate-Induced Drying of Two Semiarid Watersheds in the Southwestern United States. Journal of Hydrometeorology, 2014, 15, 1404-1418.	1.9	6
88	A blue/green water-based accounting framework for assessment of water security. Water Resources Research, 2014, 50, 7187-7205.	4.2	100
89	Trends in water balance components across the Brazilian Cerrado. Water Resources Research, 2014, 50, 7100-7114.	4.2	140
90	Use of an entropy-based metric in multiobjective calibration to improve model performance. Water Resources Research, 2014, 50, 8066-8083.	4.2	37

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91	Debatesâ€”the future of hydrological sciences: A (common) path forward? Using models and data to learn: A systems theoretic perspective on the future of hydrological science. Water Resources Research, 2014, 50, 5351-5359.	4.2	91
92	Estimating information entropy for hydrological data: Oneâ€”dimensional case. Water Resources Research, 2014, 50, 5003-5018.	4.2	57
93	Water Governance Tools: The Role of Science and Decision Support Systems in Participatory Management. , 2014, , 241-259.		4
94	On Simulation and Analysis of Variableâ€”Rate Pumping Tests. Ground Water, 2013, 51, 469-473.	1.3	19
95	Towards a comprehensive approach to parameter estimation in land surface parameterization schemes. Hydrological Processes, 2013, 27, 2075-2097.	2.6	43
96	Stochastic Simulation of Nonstationary Rainfall Fields, Accounting for Seasonality and Atmospheric Circulation Pattern Evolution. Mathematical Geosciences, 2013, 45, 621-645.	2.4	8
97	Estimating epistemic and aleatory uncertainties during hydrologic modeling: An information theoretic approach. Water Resources Research, 2013, 49, 2253-2273.	4.2	87
98	Information loss in approximately Bayesian estimation techniques: A comparison of generative and discriminative approaches to estimating agricultural productivity. Journal of Hydrology, 2013, 507, 163-173.	5.4	23
99	A decade of Predictions in Ungauged Basins (PUB)â€”a review. Hydrological Sciences Journal, 2013, 58, 1198-1255.	2.6	821
100	â€œPanta Rheiâ€”Everything Flowsâ€” Change in hydrology and societyâ€”The IAHS Scientific Decade 2013â€”2022. Hydrological Sciences Journal, 2013, 58, 1256-1275.	2.6	569
101	An approach to quantifying the efficiency of a Bayesian filter. Water Resources Research, 2013, 49, 2164-2173.	4.2	16
102	A fully multipleâ€”criteria implementation of the Sobolâ€” method for parameter sensitivity analysis. Journal of Geophysical Research, 2012, 117, .	3.3	85
103	Towards a comprehensive assessment of model structural adequacy. Water Resources Research, 2012, 48, .	4.2	317
104	Assimilating remote sensing observations of leaf area index and soil moisture for wheat yield estimates: An observing system simulation experiment. Water Resources Research, 2012, 48, .	4.2	86
105	A resonating rainfall and evaporation recorder. Water Resources Research, 2012, 48, .	4.2	12
106	Use of the continuous slope-area method to estimate runoff in a network of ephemeral channels, southeast Arizona, USA. Journal of Hydrology, 2012, 472-473, 148-158.	5.4	13
107	Multiple-criteria calibration of a distributed watershed model using spatial regularization and response signatures. Journal of Hydrology, 2012, 418-419, 49-60.	5.4	88
108	Results of the DMIP 2 Oklahoma experiments. Journal of Hydrology, 2012, 418-419, 17-48.	5.4	97

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109	Correcting the mathematical structure of a hydrological model via Bayesian data assimilation. <i>Water Resources Research</i> , 2011, 47, .	4.2	54
110	On the ability to infer spatial catchment variability using streamflow hydrographs. <i>Water Resources Research</i> , 2011, 47, .	4.2	41
111	On typical range, sensitivity, and normalization of Mean Squared Error and Nash-Sutcliffe Efficiency type metrics. <i>Water Resources Research</i> , 2011, 47, .	4.2	134
112	Hydrologic consistency as a basis for assessing complexity of monthly water balance models for the continental United States. <i>Water Resources Research</i> , 2011, 47, .	4.2	49
113	Modeling moisture fluxes using artificial neural networks: can information extraction overcome data loss?. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 359-368.	4.9	7
114	Scenario development for water resources planning and watershed management: Methodology and semi-arid region case study. <i>Environmental Modelling and Software</i> , 2011, 26, 873-885.	4.5	28
115	How Bayesian data assimilation can be used to estimate the mathematical structure of a model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 925-937.	4.0	36
116	Diagnostic evaluation of conceptual rainfall-runoff models using temporal clustering. <i>Hydrological Processes</i> , 2010, 24, 2840-2850.	2.6	81
117	Improving robustness of hydrologic parameter estimation by the use of moving block bootstrap resampling. <i>Water Resources Research</i> , 2010, 46, .	4.2	47
118	On the use of spatial regularization strategies to improve calibration of distributed watershed models. <i>Water Resources Research</i> , 2010, 46, .	4.2	62
119	Toward improved identification of hydrological models: A diagnostic evaluation of the monthly water balance model for the conterminous United States. <i>Water Resources Research</i> , 2010, 46, .	4.2	120
120	The future of hydrology: An evolving science for a changing world. <i>Water Resources Research</i> , 2010, 46, .	4.2	487
121	Multicriteria design of rain gauge networks for flash flood prediction in semiarid catchments with complex terrain. <i>Water Resources Research</i> , 2010, 46, .	4.2	64
122	Mapping model behaviour using Self-Organizing Maps. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 395-409.	4.9	30
123	On the development of regionalization relationships for lumped watershed models: The impact of ignoring sub-basin scale variability. <i>Journal of Hydrology</i> , 2009, 373, 337-351.	5.4	82
124	Decomposition of the mean squared error and NSE performance criteria: Implications for improving hydrological modelling. <i>Journal of Hydrology</i> , 2009, 377, 80-91.	5.4	3,232
125	Climate and vegetation water use efficiency at catchment scales. <i>Hydrological Processes</i> , 2009, 23, 2409-2414.	2.6	176
126	Equifinality of formal (DREAM) and informal (GLUE) Bayesian approaches in hydrologic modeling?. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 1011-1026.	4.0	337

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127	Response to comment by Keith Beven on "Equifinality of formal (DREAM) and informal (GLUE) Bayesian approaches in hydrologic modeling". Stochastic Environmental Research and Risk Assessment, 2009, 23, 1061-1062.	4.0	16
128	A formal framework for scenario development in support of environmental decision-making. Environmental Modelling and Software, 2009, 24, 798-808.	4.5	284
129	Estimating the uncertain mathematical structure of a water balance model via Bayesian data assimilation. Water Resources Research, 2009, 45, .	4.2	69
130	Climate Change: The Need to Consider Human Forcings Besides Greenhouse Gases. Eos, 2009, 90, 413-413.	0.1	64
131	Reconciling theory with observations: elements of a diagnostic approach to model evaluation. Hydrological Processes, 2008, 22, 3802-3813.	2.6	511
132	Linking science with environmental decision making: Experiences from an integrated modeling approach to supporting sustainable water resources management. Environmental Modelling and Software, 2008, 23, 846-858.	4.5	292
133	Toward a model space and model independence metric. Geophysical Research Letters, 2008, 35, .	4.0	52
134	Understanding uncertainty in distributed flash flood forecasting for semiarid regions. Water Resources Research, 2008, 44, .	4.2	131
135	A spatial regularization approach to parameter estimation for a distributed watershed model. Water Resources Research, 2008, 44, .	4.2	84
136	A process-based diagnostic approach to model evaluation: Application to the NWS distributed hydrologic model. Water Resources Research, 2008, 44, .	4.2	399
137	Framework for Understanding Structural Errors (FUSE): A modular framework to diagnose differences between hydrological models. Water Resources Research, 2008, 44, .	4.2	461
138	Chapter Nine Formal Scenario Development for Environmental Impact Assessment Studies. Developments in Integrated Environmental Assessment, 2008, 3, 145-162.	0.0	4
139	Systematic Bias in Land Surface Models. Journal of Hydrometeorology, 2007, 8, 989-1001.	1.9	68
140	WaterNet the NASA water cycle solutions network. , 2007, , .		0
141	Uncertainty in hydrologic modeling: Toward an integrated data assimilation framework. Water Resources Research, 2007, 43, .	4.2	611
142	Do Nash values have value?. Hydrological Processes, 2007, 21, 2075-2080.	2.6	486
143	Regionalization of constraints on expected watershed response behavior for improved predictions in ungauged basins. Advances in Water Resources, 2007, 30, 1756-1774.	3.8	417
144	Parameter sensitivity analysis for different complexity land surface models using multicriteria methods. Journal of Geophysical Research, 2006, 111, .	3.3	65

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145	Evaluating model performance and parameter behavior for varying levels of land surface model complexity. <i>Water Resources Research</i> , 2006, 42, .	4.2	53
146	Real-Time Data Assimilation for Operational Ensemble Streamflow Forecasting. <i>Journal of Hydrometeorology</i> , 2006, 7, 548-565.	1.9	146
147	A "User-Friendly"™ approach to parameter estimation in hydrologic models. <i>Journal of Hydrology</i> , 2006, 320, 202-217.	5.4	49
148	Model Parameter Estimation Experiment (MOPEX): An overview of science strategy and major results from the second and third workshops. <i>Journal of Hydrology</i> , 2006, 320, 3-17.	5.4	537
149	Application of stochastic parameter optimization to the Sacramento Soil Moisture Accounting model. <i>Journal of Hydrology</i> , 2006, 325, 288-307.	5.4	95
150	Neural Error Regression Diagnosis (NERD): A Tool for Model Bias Identification and Prognostic Data Assimilation. <i>Journal of Hydrometeorology</i> , 2006, 7, 160-177.	1.9	31
151	Spatial patterns in thunderstorm rainfall events and their coupling with watershed hydrological response. <i>Advances in Water Resources</i> , 2006, 29, 843-860.	3.8	137
152	Constraining Land Surface and Atmospheric Parameters of a Locally Coupled Model Using Observational Data. <i>Journal of Hydrometeorology</i> , 2005, 6, 156-172.	1.9	49
153	Evaluation and Transferability of the Noah Land Surface Model in Semiarid Environments. <i>Journal of Hydrometeorology</i> , 2005, 6, 68-84.	1.9	119
154	Dual state" parameter estimation of hydrological models using ensemble Kalman filter. <i>Advances in Water Resources</i> , 2005, 28, 135-147.	3.8	753
155	The role of hydrograph indices in parameter estimation of rainfall-runoff models. <i>Hydrological Processes</i> , 2005, 19, 2187-2207.	2.6	44
156	Rainfall modeling for integrating radar information into hydrological model. <i>Atmospheric Science Letters</i> , 2005, 6, 23-30.	1.9	11
157	Model identification for hydrological forecasting under uncertainty. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005, 19, 378-387.	4.0	269
158	Intercomparison of Rain Gauge, Radar, and Satellite-Based Precipitation Estimates with Emphasis on Hydrologic Forecasting. <i>Journal of Hydrometeorology</i> , 2005, 6, 497-517.	1.9	217
159	Improved treatment of uncertainty in hydrologic modeling: Combining the strengths of global optimization and data assimilation. <i>Water Resources Research</i> , 2005, 41, .	4.2	472
160	Application of temporal streamflow descriptors in hydrologic model parameter estimation. <i>Water Resources Research</i> , 2005, 41, .	4.2	48
161	Uncertainty assessment of hydrologic model states and parameters: Sequential data assimilation using the particle filter. <i>Water Resources Research</i> , 2005, 41, .	4.2	556
162	Constraining a physically based Soil-Vegetation-Atmosphere Transfer model with surface water content and thermal infrared brightness temperature measurements using a multiobjective approach. <i>Water Resources Research</i> , 2005, 41, .	4.2	43

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163	A hydroarchive for the free exchange of hydrological software Website: Hydrological Processes, 2004, 18, 389-391.	2.6	7
164	Exploring parameter sensitivities of the land surface using a locally coupled land-atmosphere model. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	49
165	Using a multiobjective approach to retrieve information on surface properties used in a SVAT model. Journal of Hydrology, 2004, 287, 214-236.	5.4	61
166	Improved streamflow forecasting using self-organizing radial basis function artificial neural networks. Journal of Hydrology, 2004, 295, 246-262.	5.4	183
167	Calibration of a semi-distributed hydrologic model for streamflow estimation along a river system. Journal of Hydrology, 2004, 298, 112-135.	5.4	234
168	Towards the characterization of streamflow simulation uncertainty through multimodel ensembles. Journal of Hydrology, 2004, 298, 222-241.	5.4	306
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170	Reply to comment by K. Beven and P. Young on "Bayesian recursive parameter estimation for hydrologic models". Water Resources Research, 2003, 39, .	4.2	32
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