Soroosh Sorooshian

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effective and efficient global optimization for conceptual rainfall-runoff models. Water Resources Research, 1992, 28, 1015-1031.	4.2	2,584
2	A modified soil adjusted vegetation index. Remote Sensing of Environment, 1994, 48, 119-126.	11.0	2,134
3	Status of Automatic Calibration for Hydrologic Models: Comparison with Multilevel Expert Calibration. Journal of Hydrologic Engineering - ASCE, 1999, 4, 135-143.	1.9	1,573
4	Shuffled complex evolution approach for effective and efficient global minimization. Journal of Optimization Theory and Applications, 1993, 76, 501-521.	1.5	1,338
5	Artificial Neural Network Modeling of the Rainfall-Runoff Process. Water Resources Research, 1995, 31, 2517-2530.	4.2	1,198
6	Toward improved calibration of hydrologic models: Multiple and noncommensurable measures of information. Water Resources Research, 1998, 34, 751-763.	4.2	1,154
7	A Review of Global Precipitation Data Sets: Data Sources, Estimation, and Intercomparisons. Reviews of Geophysics, 2018, 56, 79-107.	23.0	1,129
8	Optimal use of the SCE-UA global optimization method for calibrating watershed models. Journal of Hydrology, 1994, 158, 265-284.	5.4	1,091
9	Evaluation of PERSIANN System Satellite–Based Estimates of Tropical Rainfall. Bulletin of the American Meteorological Society, 2000, 81, 2035-2046.	3.3	1,063
10	PERSIANN-CDR: Daily Precipitation Climate Data Record from Multisatellite Observations for Hydrological and Climate Studies. Bulletin of the American Meteorological Society, 2015, 96, 69-83.	3.3	936
11	A Shuffled Complex Evolution Metropolis algorithm for optimization and uncertainty assessment of hydrologic model parameters. Water Resources Research, 2003, 39, .	4.2	914
12	Precipitation Estimation from Remotely Sensed Information Using Artificial Neural Networks. Journal of Applied Meteorology and Climatology, 1997, 36, 1176-1190.	1.7	833
13	Multi-objective global optimization for hydrologic models. Journal of Hydrology, 1998, 204, 83-97.	5.4	771
14	Dual state–parameter estimation of hydrological models using ensemble Kalman filter. Advances in Water Resources, 2005, 28, 135-147.	3.8	753
15	Precipitation Estimation from Remotely Sensed Imagery Using an Artificial Neural Network Cloud Classification System. Journal of Applied Meteorology and Climatology, 2004, 43, 1834-1853.	1.7	661
16	Uncertainty assessment of hydrologic model states and parameters: Sequential data assimilation using the particle filter. Water Resources Research, 2005, 41, .	4.2	556
17	Toward improved calibration of hydrologic models: Combining the strengths of manual and automatic methods. Water Resources Research, 2000, 36, 3663-3674.	4.2	537
18	Model Parameter Estimation Experiment (MOPEX): An overview of science strategy and major results from the second and third workshops. Journal of Hydrology, 2006, 320, 3-17.	5.4	537

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19	Multi-model ensemble hydrologic prediction using Bayesian model averaging. Advances in Water Resources, 2007, 30, 1371-1386.	3.8	537
20	Automatic calibration of conceptual rainfall-runoff models: sensitivity to calibration data. Journal of Hydrology, 1996, 181, 23-48.	5.4	486
21	Effective and efficient algorithm for multiobjective optimization of hydrologic models. Water Resources Research, 2003, 39, .	4.2	479
22	An integrated hydrologic Bayesian multimodel combination framework: Confronting input, parameter, and model structural uncertainty in hydrologic prediction. Water Resources Research, 2007, 43, .	4.2	466
23	A framework for development and application of hydrological models. Hydrology and Earth System Sciences, 2001, 5, 13-26.	4.9	443
24	Calibration of rainfall-runoff models: Application of global optimization to the Sacramento Soil Moisture Accounting Model. Water Resources Research, 1993, 29, 1185-1194.	4.2	425
25	Bayesian recursive parameter estimation for hydrologic models. Water Resources Research, 2001, 37, 2521-2535.	4.2	351
26	Stochastic parameter estimation procedures for hydrologie rainfallâ€runoff models: Correlated and heteroscedastic error cases. Water Resources Research, 1980, 16, 430-442.	4.2	343
27	Hydrologic evaluation of satellite precipitation products over a mid-size basin. Journal of Hydrology, 2011, 397, 225-237.	5.4	297
28	Impact of small-scale spatial rainfall variability on runoff modeling. Journal of Hydrology, 1995, 173, 309-326.	5.4	292
29	Evaluation of Maximum Likelihood Parameter estimation techniques for conceptual rainfallâ€runoff models: Influence of calibration data variability and length on model credibility. Water Resources Research, 1983, 19, 251-259.	4.2	248
30	Parameter estimation of a land surface scheme using multicriteria methods. Journal of Geophysical Research, 1999, 104, 19491-19503.	3.3	246
31	Evaluation of satellite-retrieved extreme precipitation rates across the central United States. Journal of Geophysical Research, 2011, 116, .	3.3	240
32	Modeling and simulating of reservoir operation using the artificial neural network, support vector regression, deep learning algorithm. Journal of Hydrology, 2018, 565, 720-736.	5.4	238
33	Calibration of a semi-distributed hydrologic model for streamflow estimation along a river system. Journal of Hydrology, 2004, 298, 112-135.	5.4	234
34	Developing reservoir monthly inflow forecasts using artificial intelligence and climate phenomenon information. Water Resources Research, 2017, 53, 2786-2812.	4.2	230
35	Comparison of simple versus complex distributed runoff models on a midsized semiarid watershed. Water Resources Research, 1994, 30, 593-605.	4.2	229
36	Evaluation of the PERSIANN-CDR Daily Rainfall Estimates in Capturing the Behavior of Extreme Precipitation Events over China. Journal of Hydrometeorology, 2015, 16, 1387-1396.	1.9	218

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37	Intercomparison of Rain Gauge, Radar, and Satellite-Based Precipitation Estimates with Emphasis on Hydrologic Forecasting. Journal of Hydrometeorology, 2005, 6, 497-517.	1.9	217
38	Toward improved streamflow forecasts: value of semidistributed modeling. Water Resources Research, 2001, 37, 2749-2759.	4.2	211
39	Measurement and analysis of small-scale convective storm rainfall variability. Journal of Hydrology, 1995, 173, 283-308.	5.4	208
40	Self-organizing linear output map (SOLO): An artificial neural network suitable for hydrologic modeling and analysis. Water Resources Research, 2002, 38, 38-1-38-17.	4.2	203
41	Evaluation of PERSIANN-CCS Rainfall Measurement Using the NAME Event Rain Gauge Network. Journal of Hydrometeorology, 2007, 8, 469-482.	1.9	194
42	Spatial characteristics of thunderstorm rainfall fields and their relation to runoff. Journal of Hydrology, 2003, 271, 1-21.	5.4	193
43	Advanced Concepts on Remote Sensing of Precipitation at Multiple Scales. Bulletin of the American Meteorological Society, 2011, 92, 1353-1357.	3.3	192
44	Integrated Multi-satellite Retrievals for the Global Precipitation Measurement (GPM) Mission (IMERG). Advances in Global Change Research, 2020, , 343-353.	1.6	191
45	Evolution of ensemble data assimilation for uncertainty quantification using the particle filterâ€Markov chain Monte Carlo method. Water Resources Research, 2012, 48, .	4.2	190
46	Automatic calibration of conceptual rainfallâ€runoff models: The question of parameter observability and uniqueness. Water Resources Research, 1983, 19, 260-268.	4.2	188
47	SuomiNet: A Real–Time National GPS Network for Atmospheric Research and Education. Bulletin of the American Meteorological Society, 2000, 81, 677-694.	3.3	188
48	Uncertainty quantification of satellite precipitation estimation and Monte Carlo assessment of the error propagation into hydrologic response. Water Resources Research, 2006, 42, .	4.2	188
49	Improved streamflow forecasting using self-organizing radial basis function artificial neural networks. Journal of Hydrology, 2004, 295, 246-262.	5.4	183
50	The CHRS Data Portal, an easily accessible public repository for PERSIANN global satellite precipitation data. Scientific Data, 2019, 6, 180296.	5.3	182
51	Sensitivity analysis of a land surface scheme using multicriteria methods. Journal of Geophysical Research, 1999, 104, 19481-19490.	3.3	169
52	Confidence Builders: Evaluating Seasonal Climate Forecasts from User Perspectives. Bulletin of the American Meteorological Society, 2002, 83, 683-698.	3.3	168
53	Estimation of physical variables from multichannel remotely sensed imagery using a neural network: Application to rainfall estimation. Water Resources Research, 1999, 35, 1605-1618.	4.2	166
54	Multimodel Combination Techniques for Analysis of Hydrological Simulations: Application to Distributed Model Intercomparison Project Results. Journal of Hydrometeorology, 2006, 7, 755-768.	1.9	162

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55	Diurnal Variability of Tropical Rainfall Retrieved from Combined GOES and TRMM Satellite Information. Journal of Climate, 2002, 15, 983-1001.	3.2	157
56	Evaluating the streamflow simulation capability of PERSIANN-CDR daily rainfall products in two river basins on the Tibetan Plateau. Hydrology and Earth System Sciences, 2017, 21, 169-181.	4.9	153
57	The PERSIANN family of global satellite precipitation data: a review and evaluation of products. Hydrology and Earth System Sciences, 2018, 22, 5801-5816.	4.9	151
58	Improving Precipitation Estimation Using Convolutional Neural Network. Water Resources Research, 2019, 55, 2301-2321.	4.2	142
59	Leaf Area Index Estimates Using Remotely Sensed Data and BRDF Models in a Semiarid Region. Remote Sensing of Environment, 2000, 73, 18-30.	11.0	137
60	Spatial patterns in thunderstorm rainfall events and their coupling with watershed hydrological response. Advances in Water Resources, 2006, 29, 843-860.	3.8	137
61	Toward improved identifiability of hydrologic model parameters: The information content of experimental data. Water Resources Research, 2002, 38, 48-1-48-13.	4.2	135
62	Simulating California reservoir operation using the classification and regressionâ€ŧree algorithm combined with a shuffled crossâ€validation scheme. Water Resources Research, 2016, 52, 1626-1651.	4.2	135
63	A Multistep Automatic Calibration Scheme for River Forecasting Models. Journal of Hydrometeorology, 2000, 1, 524-542.	1.9	134
64	Challenges of Operational River Forecasting. Journal of Hydrometeorology, 2014, 15, 1692-1707.	1.9	127
65	On the simulation of infiltration- and saturation-excess runoff using radar-based rainfall estimates: Effects of algorithm uncertainty and pixel aggregation. Water Resources Research, 1998, 34, 2655-2670.	4.2	126
66	Effect of rainfall-sampling errors on simulations of desert flash floods. Water Resources Research, 1994, 30, 2765-2775.	4.2	124
67	Verification of National Weather Service Ensemble Streamflow Predictions for Water Supply Forecasting in the Colorado River Basin. Journal of Hydrometeorology, 2003, 4, 1105-1118.	1.9	119
68	Evaluation and Transferability of the Noah Land Surface Model in Semiarid Environments. Journal of Hydrometeorology, 2005, 6, 68-84.	1.9	119
69	Uniqueness and observability of conceptual rainfallâ€runoff model parameters: The percolation process examined. Water Resources Research, 1983, 19, 269-276.	4.2	117
70	The relationship between data and the precision of parameter estimates of hydrologic models. Journal of Hydrology, 1985, 81, 57-77.	5.4	116
71	From lumped to distributed via semi-distributed: Calibration strategies for semi-distributed hydrologic models. Journal of Hydrology, 2012, 418-419, 61-77.	5.4	115
72	Evaluation and comparison of satellite precipitation estimates with reference to a local area in the Mediterranean Sea. Atmospheric Research, 2014, 138, 189-204.	4.1	114

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73	Evaluation of satellite-based precipitation estimation over Iran. Journal of Arid Environments, 2013, 97, 205-219.	2.4	108
74	A Deep Neural Network Modeling Framework to Reduce Bias in Satellite Precipitation Products. Journal of Hydrometeorology, 2016, 17, 931-945.	1.9	103
75	PERSIANN-MSA: A Precipitation Estimation Method from Satellite-Based Multispectral Analysis. Journal of Hydrometeorology, 2009, 10, 1414-1429.	1.9	102
76	Improving the multi-objective evolutionary optimization algorithm for hydropower reservoir operations in the California Oroville–Thermalito complex. Environmental Modelling and Software, 2015, 69, 262-279.	4.5	102
77	A chaotic approach to rainfall disaggregation. Water Resources Research, 2001, 37, 61-72.	4.2	98
78	A high resolution coupled hydrologic–hydraulic model (HiResFlood-UCI) for flash flood modeling. Journal of Hydrology, 2016, 541, 401-420.	5.4	98
79	Results of the DMIP 2 Oklahoma experiments. Journal of Hydrology, 2012, 418-419, 17-48.	5.4	97
80	PERSIANN-CNN: Precipitation Estimation from Remotely Sensed Information Using Artificial Neural Networks–Convolutional Neural Networks. Journal of Hydrometeorology, 2019, 20, 2273-2289.	1.9	97
81	The Automatic Calibration of Conceptual Catchment Models Using Derivativeâ€Based Optimization Algorithms. Water Resources Research, 1985, 21, 473-485.	4.2	95
82	Application of stochastic parameter optimization to the Sacramento Soil Moisture Accounting model. Journal of Hydrology, 2006, 325, 288-307.	5.4	95
83	How well do CMIP5 climate simulations replicate historical trends and patterns of meteorological droughts?. Water Resources Research, 2015, 51, 2847-2864.	4.2	94
84	General Review of Rainfall-Runoff Modeling: Model Calibration, Data Assimilation, and Uncertainty Analysis. Water Science and Technology Library, 2009, , 1-24.	0.3	94
85	How significant is the impact of irrigation on the local hydroclimate in California's Central Valley? Comparison of model results with ground and remote-sensing data. Journal of Geophysical Research, 2011, 116, .	3.3	93
86	Merging multiple precipitation sources for flash flood forecasting. Journal of Hydrology, 2007, 340, 183-196.	5.4	91
87	Evaluation of Official Western U.S. Seasonal Water Supply Outlooks, 1922–2002. Journal of Hydrometeorology, 2004, 5, 896-909.	1.9	90
88	A Microwave Infrared Threshold Technique to Improve the GOES Precipitation Index. Journal of Applied Meteorology and Climatology, 1999, 38, 569-579.	1.7	88
89	Estimating Rainfall Intensities from Weather Radar Data: The Scale-Dependency Problem. Journal of Hydrometeorology, 2003, 4, 782-797.	1.9	87
90	Bias Adjustment of Satellite Precipitation Estimation Using Ground-Based Measurement: A Case Study Evaluation over the Southwestern United States. Journal of Hydrometeorology, 2009, 10, 1231-1242.	1.9	87

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91	A new evolutionary search strategy for global optimization of high-dimensional problems. Information Sciences, 2011, 181, 4909-4927.	6.9	87
92	An enhanced artificial neural network with a shuffled complex evolutionary global optimization with principal component analysis. Information Sciences, 2017, 418-419, 302-316.	6.9	82
93	Operational snow modeling: Addressing the challenges of an energy balance model for National Weather Service forecasts. Journal of Hydrology, 2008, 360, 48-66.	5.4	79
94	Assessing the Impacts of Different WRF Precipitation Physics in Hurricane Simulations. Weather and Forecasting, 2012, 27, 1003-1016.	1.4	79
95	Improving Monsoon Precipitation Prediction Using Combined Convolutional and Long Short Term Memory Neural Network. Water (Switzerland), 2019, 11, 977.	2.7	78
96	Comparison of Newtonâ€ŧype and direct search algorithms for calibration of conceptual rainfallâ€runoff models. Water Resources Research, 1988, 24, 691-700.	4.2	77
97	Shortâ€Term Precipitation Forecast Based on the PERSIANN System and LSTM Recurrent Neural Networks. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,543.	3.3	75
98	A sequential Bayesian approach for hydrologic model selection and prediction. Water Resources Research, 2009, 45, .	4.2	74
99	Comparative Analyses of Physically Based Snowmelt Models for Climate Simulations. Journal of Climate, 1999, 12, 2643-2657.	3.2	73
100	USING CLIMATE FORECASTS FOR WATER MANAGEMENT: ARIZONA AND THE 1997?1998 EL Nl�O. Journal of th American Water Resources Association, 2001, 37, 1139-1153.	າe 2.4	73
101	Intercomparison of PERSIANN-CDR and TRMM-3B42V7 precipitation estimates at monthly and daily time scales. Atmospheric Research, 2017, 193, 36-49.	4.1	73
102	Developing Intensityâ€Ðurationâ€Frequency (IDF) Curves From Satelliteâ€Based Precipitation: Methodology and Evaluation. Water Resources Research, 2018, 54, 7752-7766.	4.2	69
103	PERSIANN-CCS-CDR, a 3-hourly 0.04° global precipitation climate data record for heavy precipitation studies. Scientific Data, 2021, 8, 157.	5.3	67
104	Parameter sensitivity analysis for different complexity land surface models using multicriteria methods. Journal of Geophysical Research, 2006, 111, .	3.3	65
105	Investigating the impact of remotely sensed precipitation and hydrologic model uncertainties on the ensemble streamflow forecasting. Geophysical Research Letters, 2006, 33, .	4.0	65
106	Advances in automatic calibration of watershed models. Water Science and Application, 2003, , 9-28.	0.3	64
107	Handling boundary constraints for particle swarm optimization in high-dimensional search space. Information Sciences, 2011, 181, 4569-4581.	6.9	64
108	Assessing the Efficacy of High-Resolution Satellite-Based PERSIANN-CDR Precipitation Product in Simulating Streamflow. Journal of Hydrometeorology, 2016, 17, 2061-2076.	1.9	62

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109	The Analysis of Structural Identifiability: Theory and Application to Conceptual Rainfallâ€Runoff Models. Water Resources Research, 1985, 21, 487-495.	4.2	61
110	Watershed rainfall forecasting using neuro-fuzzy networks with the assimilation of multi-sensor information. Journal of Hydrology, 2014, 508, 374-384.	5.4	60
111	A Two-Stage Deep Neural Network Framework for Precipitation Estimation from Bispectral Satellite Information. Journal of Hydrometeorology, 2018, 19, 393-408.	1.9	60
112	Hydrologic Verification: A Call for Action and Collaboration. Bulletin of the American Meteorological Society, 2007, 88, 503-512.	3.3	59
113	Computational Earth Science: Big Data Transformed Into Insight. Eos, 2013, 94, 277-278.	0.1	59
114	Flood Forecasting and Inundation Mapping Using HiResFlood-UCI and Near-Real-Time Satellite Precipitation Data: The 2008 Iowa Flood. Journal of Hydrometeorology, 2015, 16, 1171-1183.	1.9	56
115	Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue. Agricultural and Forest Meteorology, 2000, 105, 3-20.	4.8	55
116	Using airborne lidar to predict Leaf Area Index in cottonwood trees and refine riparian water-use estimates. Journal of Arid Environments, 2008, 72, 1-15.	2.4	55
117	Factors affecting seasonal forecast use in Arizona water management: a case study of the 1997-98 El Niño. Climate Research, 2002, 21, 259-269.	1.1	54
118	Evaluating model performance and parameter behavior for varying levels of land surface model complexity. Water Resources Research, 2006, 42, .	4.2	53
119	Bias adjustment of satelliteâ€based precipitation estimation using gauge observations: A case study in Chile. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3790-3806.	3.3	52
120	Geometrical Characterization of Precipitation Patterns. Journal of Hydrometeorology, 2011, 12, 274-285.	1.9	51
121	Merging highâ€resolution satelliteâ€based precipitation fields and pointâ€scale rain gauge measurements—A case study in Chile. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5267-5284.	3.3	50
122	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
123	Constraining Land Surface and Atmospheric Parameters of a Locally Coupled Model Using Observational Data. Journal of Hydrometeorology, 2005, 6, 156-172.	1.9	49
124	A â€~User-Friendly' approach to parameter estimation in hydrologic models. Journal of Hydrology, 2006, 320, 202-217.	5.4	49
125	Application of temporal streamflow descriptors in hydrologic model parameter estimation. Water Resources Research, 2005, 41, .	4.2	48
126	Improving near real-time precipitation estimation using a U-Net convolutional neural network and geographical information. Environmental Modelling and Software, 2020, 134, 104856.	4.5	48

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127	PERSIANN Dynamic Infrared–Rain Rate (PDIR-Now): A Near-Real-Time, Quasi-Global Satellite Precipitation Dataset. Journal of Hydrometeorology, 2020, 21, 2893-2906.	1.9	48
128	Sensitivity analysis of the biosphere-atmosphere transfer scheme. Journal of Geophysical Research, 1996, 101, 7279-7289.	3.3	47
129	Self-organizing nonlinear output (SONO): A neural network suitable for cloud patch-based rainfall estimation at small scales. Water Resources Research, 2005, 41, .	4.2	47
130	Improving the shuffled complex evolution scheme for optimization of complex nonlinear hydrological systems: Application to the calibration of the Sacramento soilâ€moisture accounting model. Water Resources Research, 2010, 46, .	4.2	47
131	Precipitation Identification with Bispectral Satellite Information Using Deep Learning Approaches. Journal of Hydrometeorology, 2017, 18, 1271-1283.	1.9	47
132	Parameter estimation of rainfall-runoff models with heteroscedastic streamflow errors — The noninformative data case. Journal of Hydrology, 1981, 52, 127-138.	5.4	46
133	The estimation of fluid flow properties from the response of water levels in wells to the combined atmospheric and Earth tide forces. Water Resources Research, 1991, 27, 883-893.	4.2	45
134	Advancing the Remote Sensing of Precipitation. Bulletin of the American Meteorological Society, 2011, 92, 1271-1272.	3.3	45
135	Rainfall frequency analysis for ungauged sites using satellite precipitation products. Journal of Hydrology, 2017, 554, 646-655.	5.4	45
136	Global Precipitation Trends across Spatial Scales Using Satellite Observations. Bulletin of the American Meteorological Society, 2018, 99, 689-697.	3.3	45
137	Rainfall frequency analysis for ungauged regions using remotely sensed precipitation information. Journal of Hydrology, 2018, 563, 123-142.	5.4	45
138	Surface water hydrology: Onâ€line estimation. Reviews of Geophysics, 1983, 21, 706-721.	23.0	44
139	The role of hydrograph indices in parameter estimation of rainfall-runoff models. Hydrological Processes, 2005, 19, 2187-2207.	2.6	44
140	Influence of irrigation schemes used in regional climate models on evapotranspiration estimation: Results and comparative studies from California's Central Valley agricultural regions. Journal of Geophysical Research, 2012, 117, .	3.3	43
141	Evaluating the Utility of Multispectral Information in Delineating the Areal Extent of Precipitation. Journal of Hydrometeorology, 2009, 10, 684-700.	1.9	42
142	Simulation of snow mass and extent in general circulation models. Hydrological Processes, 1999, 13, 2097-2113.	2.6	40
143	REFAME: Rain Estimation Using Forward-Adjusted Advection of Microwave Estimates. Journal of Hydrometeorology, 2010, 11, 1305-1321.	1.9	40
144	A maximum likelihood criterion for use with data collected at unequal time intervals. Water Resources Research, 1988, 24, 1163-1173.	4.2	39

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145	Radar Z–RRelationship for Summer Monsoon Storms in Arizona. Weather and Forecasting, 2005, 20, 672-679.	1.4	39
146	Calibration of Probabilistic Quantitative Precipitation Forecasts with an Artificial Neural Network. Weather and Forecasting, 2007, 22, 1287-1303.	1.4	39
147	Improved representation of diurnal variability of rainfall retrieved from the Tropical Rainfall Measurement Mission Microwave Imager adjusted Precipitation Estimation From Remotely Sensed Information Using Artificial Neural Networks (PERSIANN) system. Journal of Geophysical Research, 2005. 110. n/a-n/a.	3.3	38
148	Daytime Precipitation Estimation Using Bispectral Cloud Classification System. Journal of Applied Meteorology and Climatology, 2010, 49, 1015-1031.	1.5	38
149	Quantitative Precipitation Nowcasting: A Lagrangian Pixel-Based Approach. Atmospheric Research, 2012, 118, 418-434.	4.1	38
150	The distributed model intercomparison project – Phase 2: Experiment design and summary results of the western basin experiments. Journal of Hydrology, 2013, 507, 300-329.	5.4	38
151	An Artificial Neural Network Model to Reduce False Alarms in Satellite Precipitation Products Using MODIS and CloudSat Observations. Journal of Hydrometeorology, 2013, 14, 1872-1883.	1.9	38
152	Development of a Hydrochemical Model for Seasonally Snow-Covered Alpine Watersheds: Application to Emerald Lake Watershed, Sierra Nevada, California. Water Resources Research, 1996, 32, 1061-1074.	4.2	37
153	One-dimensional snow water and energy balance model for vegetated surfaces. Hydrological Processes, 1999, 13, 2467-2482.	2.6	37
154	Genesis, Pathways, and Terminations of Intense Global Water Vapor Transport in Association with Largeâ€Scale Climate Patterns. Geophysical Research Letters, 2017, 44, 12,465.	4.0	37
155	Conditional Generative Adversarial Networks (cGANs) for Near Real-Time Precipitation Estimation from Multispectral GOES-16 Satellite Imageries—PERSIANN-cGAN. Remote Sensing, 2019, 11, 2193.	4.0	37
156	Trends of precipitation extreme indices over a subtropical semi-arid area using PERSIANN-CDR. Theoretical and Applied Climatology, 2017, 130, 249-260.	2.8	36
157	Bias Correction of Satellite-Based Precipitation Estimations Using Quantile Mapping Approach in Different Climate Regions of Iran. Remote Sensing, 2020, 12, 2102.	4.0	36
158	Using Airborne Lidar to Discern Age Classes of Cottonwood Trees in a Riparian Area. Western Journal of Applied Forestry, 2006, 21, 149-158.	0.5	35
159	Short-term quantitative precipitation forecasting using an object-based approach. Journal of Hydrology, 2013, 483, 1-15.	5.4	35
160	Influence of irrigation on land hydrological processes over California. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,137.	3.3	35
161	Bayesian recursive estimation of parameter and output uncertainty for watershed models. Water Science and Application, 2003, , 113-124.	0.3	34
162	Quantifying the reliability of four global datasets for drought monitoring over a semiarid region. Theoretical and Applied Climatology, 2016, 123, 387-398.	2.8	34

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163	Evaluation of Methods for Causal Discovery in Hydrometeorological Systems. Water Resources Research, 2020, 56, e2020WR027251.	4.2	33
164	PERSIANN Dynamic Infrared–Rain Rate Model (PDIR) for High-Resolution, Real-Time Satellite Precipitation Estimation. Bulletin of the American Meteorological Society, 2020, 101, E286-E302.	3.3	33
165	Response surface parameter sensitivity analysis methods for postcalibration studies. Water Resources Research, 1982, 18, 1531-1538.	4.2	32
166	A preliminary synthesis of major scientific results during the SALSA program. Agricultural and Forest Meteorology, 2000, 105, 311-323.	4.8	32
167	Impact of field-calibrated vegetation parameters on GCM climate simulations. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 1199-1223.	2.7	32
168	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
169	Satellites Track Precipitation of Super Typhoon Haiyan. Eos, 2014, 95, 133-135.	0.1	31
170	Evaluation of CMIP5 Model Precipitation Using PERSIANN-CDR. Journal of Hydrometeorology, 2017, 18, 2313-2330.	1.9	31
171	Precipitation Prediction Skill for the West Coast United States: From Short to Extended Range. Journal of Climate, 2019, 32, 161-182.	3.2	31
172	Weather, climate, and hydrologic forecasting for the US Southwest: a survey. Climate Research, 2002, 21, 239-258.	1.1	31
173	Verification of Probabilistic Quantitative Precipitation Forecasts over the Southwest United States during Winter 2002/03 by the RSM Ensemble System. Monthly Weather Review, 2005, 133, 279-294.	1.4	30
174	Relationship between atmospheric circulation and snowpack in the western USA. Hydrological Processes, 2006, 20, 753-767.	2.6	30
175	LMODEL: A Satellite Precipitation Methodology Using Cloud Development Modeling. Part I: Algorithm Construction and Calibration. Journal of Hydrometeorology, 2009, 10, 1081-1095.	1.9	30
176	Shuffled Complex-Self Adaptive Hybrid EvoLution (SC-SAHEL) optimization framework. Environmental Modelling and Software, 2018, 104, 215-235.	4.5	29
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178	Bias adjustment of infraredâ€based rainfall estimation using Passive Microwave satellite rainfall data. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3859-3876.	3.3	28
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