

Bellie Sivakumar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

224
papers

5,538
citations

41
h-index

64
g-index

247
ext. papers

6,573
ext. citations

4.3
avg. IF

6.58
L-index

#	Paper	IF	Citations
224	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	5.8	5
223	Effects of Mulching on Maize Yield and Evapotranspiration in the Heihe River Basin, Northwest China. <i>Remote Sensing</i> , 2022 , 14, 700	5	0
222	Does turbulence show fractal structure within a dynamic undercut of an alluvial riverbank?. <i>Chaos, Solitons and Fractals</i> , 2022 , 157, 111998	9.3	
221	The Grain-for-Green project offsets warming-induced soil organic carbon loss and increases soil carbon stock in Chinese Loess Plateau.. <i>Science of the Total Environment</i> , 2022 , 155469	10.2	1
220	False Nearest Neighbour Method for the Analysis of Sea Surface Temperature Time Series. <i>Lecture Notes in Civil Engineering</i> , 2021 , 361-369	0.3	
219	Constructed wetland management in urban catchments for mitigating floods. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 2105-2124	3.5	6
218	Spatio-temporal connections in streamflow: a complex networks-based approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 2375	3.5	2
217	Community structure concept for catchment classification: A modularity density-based edge betweenness (MDEB) method. <i>Ecological Indicators</i> , 2021 , 124, 107346	5.8	4
216	A hybrid wavelet-Lyapunov exponent model for river water quality forecast. <i>Journal of Hydroinformatics</i> , 2021 , 23, 864-878	2.6	1
215	Detection of type of trends in surface air temperature in China. <i>Journal of Hydrology</i> , 2021 , 596, 126061	6	2
214	Forecasting rainfall using transfer entropy coupled directed weighted complex networks. <i>Atmospheric Research</i> , 2021 , 255, 105531	5.4	2
213	Study of temporal streamflow dynamics with complex networks: network construction and clustering. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 579-595	3.5	5
212	Catchment classification using community structure concept: application to two large regions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 561-578	3.5	2
211	A Canberra distance-based complex network classification framework using lumped catchment characteristics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 1293-1300	3.5	1
210	Assessing future crop yield and crop water productivity over the Heihe River basin in northwest China under a changing climate. <i>Geoscience Letters</i> , 2021 , 8,	3.5	6
209	Application of complex networks for monthly rainfall dynamics over central Vietnam. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 535-548	3.5	5
208	Uniform discrete wavelet spectrum for detection of hydrologic variability at multiple timescales. <i>Journal of Hydro-Environment Research</i> , 2021 , 35, 31-37	2.3	0

207	Complex networks and integrated centrality measure to assess the importance of streamflow stations in a River basin. <i>Journal of Hydrology</i> , 2021 , 598, 126280	6	4
206	Intercomparison of downscaling methods for daily precipitation with emphasis on wavelet-based hybrid models. <i>Journal of Hydrology</i> , 2021 , 599, 126373	6	2
205	Projected soil organic carbon loss in response to climate warming and soil water content in a loess watershed. <i>Carbon Balance and Management</i> , 2021 , 16, 24	3.6	7
204	Development of river morphologic stability index (RMSI) to assess mountain river systems. <i>Journal of Hydrology: Regional Studies</i> , 2021 , 37, 100918	3.6	0
203	A D8-compatible high-efficient channel head recognition method. <i>Environmental Modelling and Software</i> , 2020 , 125, 104624	5.2	12
202	Forecasting surface water temperature in lakes: A comparison of approaches. <i>Journal of Hydrology</i> , 2020 , 585, 124809	6	30
201	Forecasting of water level in multiple temperate lakes using machine learning models. <i>Journal of Hydrology</i> , 2020 , 585, 124819	6	38
200	Spatiotemporal variability of Indian rainfall using multiscale entropy. <i>Journal of Hydrology</i> , 2020 , 587, 124916	6	18
199	Continuous monitoring of suspended sediment concentrations using image analytics and deriving inherent correlations by machine learning. <i>Scientific Reports</i> , 2020 , 10, 8589	4.9	6
198	Effects of the South Asian summer monsoon anomaly on interannual variations in precipitation over the South-Central Tibetan Plateau. <i>Environmental Research Letters</i> , 2020 , 15, 124067	6.2	7
197	Does summer precipitation in China exhibit significant periodicities?. <i>Journal of Hydrology</i> , 2020 , 581, 124289	6	3
196	Quantifying the contributions of climate variation, land use change, and engineering measures for dramatic reduction in streamflow and sediment in a typical loess watershed, China. <i>Ecological Engineering</i> , 2020 , 142, 105611	3.9	27
195	Is there an underestimation of long-term variability of streamflow across the continental United States?. <i>Journal of Hydrology</i> , 2020 , 581, 124365	6	2
194	Challenges in urban stormwater management in Chinese cities: A hydrologic perspective. <i>Journal of Hydrology</i> , 2020 , 591, 125314	6	3
193	Socioeconomic Drought Under Growing Population and Changing Climate: A New Index Considering the Resilience of a Regional Water Resources System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033005	4.4	15
192	Reconstructing the distribution of the paleobiome types in the Three-River Headwaters Region in China from the middle Holocene. <i>Holocene</i> , 2020 , 30, 1706-1715	2.6	
191	Attribution of growing season vegetation activity to climate change and human activities in the Three-River Headwaters Region, China. <i>Journal of Hydroinformatics</i> , 2020 , 22, 186-204	2.6	7
190	Impacts of a large river-to-lake water diversion project on lacustrine phytoplankton communities. <i>Journal of Hydrology</i> , 2020 , 587, 124938	6	19

189	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	5.2	23
188	Forecasting river water temperature time series using a wavelet-neural network hybrid modelling approach. <i>Journal of Hydrology</i> , 2019 , 578, 124115	6	61
187	A Statistical Distributed Model of Average Annual Runoff for Water Resources Assessment in DPR Korea. <i>Water (Switzerland)</i> , 2019 , 11, 965	3	2
186	The Role of Large Dams in Promoting Economic Development under the Pressure of Population Growth. <i>Sustainability</i> , 2019 , 11, 2965	3.6	27
185	High-efficient extraction of drainage networks from digital elevation models constrained by enhanced flow enforcement from known river maps. <i>Geomorphology</i> , 2019 , 340, 184-201	4.3	26
184	Complexity of streamflows in the west-flowing rivers of India. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 837-853	3.5	3
183	Streamflow Connectivity in a Large-Scale River Basin. <i>Springer Water</i> , 2019 , 205-223	0.3	0
182	A Correlation Scale-Threshold Method for Spatial Variability of Rainfall. <i>Hydrology</i> , 2019 , 6, 11	2.8	5
181	Effectiveness of CMIP5 Decadal Experiments for Interannual Rainfall Prediction Over Australia. <i>Water Resources Research</i> , 2019 , 55, 7400-7418	5.4	7
180	Can the Grain-for-Green Program Really Ensure a Low Sediment Load on the Chinese Loess Plateau?. <i>Engineering</i> , 2019 , 5, 855-864	9.7	26
179	A comparative study of models for short-term streamflow forecasting with emphasis on wavelet-based approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1875-1891	3.5	20
178	Wavelet analysis of precipitation extremes over India and teleconnections to climate indices. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 2053-2069	3.5	19
177	Reconstruction of daily rainfall data using the concepts of networks: Accounting for spatial connections in neighborhood selection. <i>Journal of Hydrology</i> , 2019 , 579, 124185	6	10
176	Probabilistic Hydrological Post-Processing at Scale: Why and How to Apply Machine-Learning Quantile Regression Algorithms. <i>Water (Switzerland)</i> , 2019 , 11, 2126	3	36
175	Climatic and hydrologic controls on net primary production in a semiarid loess watershed. <i>Journal of Hydrology</i> , 2019 , 568, 803-815	6	33
174	Spatial rainfall variability in peninsular India: a nonlinear dynamic approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 465-480	3.5	2
173	Temporal downscaling rainfall and streamflow records through a deterministic fractal geometric approach. <i>Journal of Hydrology</i> , 2019 , 568, 447-461	6	5
172	Entropy analysis for spatiotemporal variability of seasonal, low, and high streamflows. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 303-320	3.5	5

171	Fuzzy Entropy and Its Application for Enhanced Subspace Filtering. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1970-1982	8.3	17
170	Regional variation of recession flow power-law exponent. <i>Hydrological Processes</i> , 2018 , 32, 866-872	3.3	13
169	Quantitative design of emergency monitoring network for river chemical spills based on discrete entropy theory. <i>Water Research</i> , 2018 , 134, 140-152	12.5	12
168	Time-lag effects of vegetation responses to soil moisture evolution: a case study in the Xijiang basin in South China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 2423-2432	3.5	13
167	Spatial connections in regional climate model rainfall outputs at different temporal scales: Application of network theory. <i>Journal of Hydrology</i> , 2018 , 556, 1232-1243	6	22
166	Studying the Complexity of Rainfall Within California Via a Fractal Geometric Method 2018 , 519-542		1
165	Complex Networks and Hydrologic Applications 2018 , 565-586		2
164	Prediction of vegetation anomalies over an inland river basin in north-western China. <i>Hydrological Processes</i> , 2018 , 32, 1814-1827	3.3	7
163	Temporal dynamics of streamflow: application of complex networks. <i>Geoscience Letters</i> , 2018 , 5,	3.5	16
162	Spatiotemporal features of the hydro-biogeochemical cycles in a typical loess gully watershed. <i>Ecological Indicators</i> , 2018 , 91, 542-554	5.8	30
161	Evaluation of Quantitative Precipitation Predictions by ECMWF, CMA, and UKMO for Flood Forecasting: Application to Two Basins in China. <i>Natural Hazards Review</i> , 2018 , 19, 05018003	3.5	16
160	Temporal streamflow analysis: Coupling nonlinear dynamics with complex networks. <i>Journal of Hydrology</i> , 2018 , 564, 59-67	6	15
159	Probability distribution functions for unit hydrographs with optimization using genetic algorithm. <i>Applied Water Science</i> , 2017 , 7, 663-676	5	10
158	Multi-scale streamflow variability responses to precipitation over the headwater catchments in southern China. <i>Journal of Hydrology</i> , 2017 , 551, 14-28	6	18
157	Deterministic Simulation of Mildly Intermittent Hydrologic Records. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 04017026	1.8	1
156	Coherent modes in multi-scale variability of precipitation over the headwater catchments in the Pearl River basin, South China. <i>Hydrological Processes</i> , 2017 , 31, 948-955	3.3	6
155	Complex networks for rainfall modeling: Spatial connections, temporal scale, and network size. <i>Journal of Hydrology</i> , 2017 , 554, 482-489	6	26
154	Tsallis Entropy Theory for Modeling in Water Engineering: A Review. <i>Entropy</i> , 2017 , 19, 641	2.8	22

153	Cross-entropy clustering framework for catchment classification. <i>Journal of Hydrology</i> , 2017 , 552, 433-446		14
152	Deterministic simulation of highly intermittent hydrologic time series. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 2719-2732	3-5	3
151	Chaos in Hydrology 2017 ,		24
150	Complex networks, community structure, and catchment classification in a large-scale river basin. <i>Journal of Hydrology</i> , 2017 , 545, 478-493	6	40
149	Impacts of the tropical trans-basin variability on Australian rainfall. <i>Climate Dynamics</i> , 2017 , 49, 1617-1629	2	17
148	An Assessment of Drift Correction Alternatives for CMIP5 Decadal Predictions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,282	4-4	13
147	Future aridity under conditions of global climate change. <i>Journal of Hydrology</i> , 2017 , 554, 451-469	6	40
146	Combining Fractals and Multifractals to Model Geoscience Records 2017 , 297-332		1
145	Characteristics of Hydrologic Systems 2017 , 29-62		2
144	Chaos Identification and Prediction Methods 2017 , 173-197		1
143	Stochastic Time Series Methods 2017 , 63-110		
142	Applications to Rainfall Data 2017 , 245-266		
141	Applications to Other Hydrologic Data 2017 , 297-319		
140	Final Thoughts: Philosophy and Pragmatism 2017 , 375-382		
139	Fundamentals of Chaos Theory 2017 , 149-171		1
138	Current Status 2017 , 343-355		
137	Issues in Chaos Identification and Prediction 2017 , 199-228		
136	Studies on Hydrologic Data Issues 2017 , 321-339		

135	Modern Nonlinear Time Series Methods 2017 , 111-145		1
134	Applications to River Flow Data 2017 , 267-295		1
133	Quantification of precipitation and temperature uncertainties simulated by CMIP3 and CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3-17	4.4	83
132	Symplectic geometry spectrum regression for prediction of noisy time series. <i>Physical Review E</i> , 2016 , 93, 052217	2.4	9
131	Sampling biases in CMIP5 decadal forecasts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3435-3445	4.4	7
130	Encoding daily rainfall records via adaptations of the fractal multifractal method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 1917-1931	3.5	13
129	Multiscale Two-Directional Two-Dimensional Principal Component Analysis and Its Application to High-Dimensional Biomedical Signal Classification. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1416-1425	5	12
128	Free Vibration of Cross-Ply Laminated Plates with Variable Thickness Based on Shear Deformation Theory. <i>International Journal of Computational Methods</i> , 2016 , 13, 1650016	1.1	4
127	Population, water, food, energy and dams. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 18-28	16.2	118
126	Evidence for deterministic chaos in long-term high-resolution karstic streamflow time series. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 2189-2196	3.5	5
125	Panta Rhei 2013-2015: global perspectives on hydrology, society and change. <i>Hydrological Sciences Journal</i> , 2016 , 1-18	3.5	44
124	Hydrologic regionalization using wavelet-based multiscale entropy method. <i>Journal of Hydrology</i> , 2016 , 538, 22-32	6	62
123	A comparison of fractal-multifractal techniques for encoding streamflow records. <i>Journal of Hydrology</i> , 2016 , 542, 564-580	6	6
122	Natural hazards in Australia: droughts. <i>Climatic Change</i> , 2016 , 139, 37-54	4.5	112
121	Drought processes, modeling, and mitigation. <i>Journal of Hydrology</i> , 2015 , 526, 1-2	6	16
120	Catchment Classification Framework in Hydrology: Challenges and Directions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20,	1.8	47
119	Special Issue on Grand Challenges in Hydrology. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20,	1.8	1
118	A network-based analysis of spatial rainfall connections. <i>Environmental Modelling and Software</i> , 2015 , 69, 55-62	5.2	42

117	Effect of catchment characteristics on the relationship between past discharge and the power law recession coefficient. <i>Journal of Hydrology</i> , 2015 , 528, 321-328	6	24
116	Neural network river forecasting through baseflow separation and binary-coded swarm optimization. <i>Journal of Hydrology</i> , 2015 , 529, 1788-1797	6	181
115	Networks: a generic theory for hydrology?. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 761-771	3.5	28
114	Anatomy of a local-scale drought: Application of assimilated remote sensing products, crop model, and statistical methods to an agricultural drought study. <i>Journal of Hydrology</i> , 2015 , 526, 15-29	6	67
113	Droughts in a warming climate: A global assessment of Standardized precipitation index (SPI) and Reconnaissance drought index (RDI). <i>Journal of Hydrology</i> , 2015 , 526, 183-195	6	225
112	Assessment of global aridity change. <i>Journal of Hydrology</i> , 2015 , 520, 300-313	6	44
111	On the predictability of SSTA indices from CMIP5 decadal experiments. <i>Environmental Research Letters</i> , 2015 , 10, 074013	6.2	8
110	Network theory and spatial rainfall connections: An interpretation. <i>Journal of Hydrology</i> , 2015 , 527, 13-10		45
109	Streamflow variability and classification using false nearest neighbor method. <i>Journal of Hydrology</i> , 2015 , 531, 706-715	6	25
108	Daily anomalous high flow (DAHF) of a headwater catchment over the East River basin in South China. <i>Journal of Hydrology</i> , 2014 , 519, 284-294	6	3
107	A framework to quantify GCM uncertainties for use in impact assessment studies. <i>Journal of Hydrology</i> , 2014 , 519, 1453-1465	6	47
106	A Bayesian method for multi-pollution source water quality model and seasonal water quality management in river segments. <i>Environmental Modelling and Software</i> , 2014 , 57, 216-226	5.2	19
105	Complex networks for streamflow dynamics. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4565-4578	5.5	38
104	Teleconnection analysis of runoff and soil moisture over the Pearl River basin in southern China. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 1475-1492	5.5	28
103	Planning and management of shared waters: hydrogeopolitics and hydrogeology [Two sides of the same coin]. <i>International Journal of Water Resources Development</i> , 2014 , 30, 200-210	3	4
102	Symplectic geometry spectrum analysis of nonlinear time series. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140409	2.4	23
101	Study of runoff response to land use change in the East River basin in South China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 857-865	3.5	17
100	Nonlinear analysis of rainfall variability in Australia. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 17-27	3.5	26

99	A physical interpretation of the deterministic fractal-multifractal method as a realization of a generalized multiplicative cascade. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 1421-1429	3.5	8
98	Scale-dependent synthetic streamflow generation using a continuous wavelet transform. <i>Journal of Hydrology</i> , 2013 , 496, 71-78	6	23
97	Merging gauge and satellite rainfall with specification of associated uncertainty across Australia. <i>Journal of Hydrology</i> , 2013 , 499, 167-176	6	69
96	Impacts of increased CO ₂ on the hydrologic response over the Xijiang (West River) basin, South China. <i>Journal of Hydrology</i> , 2013 , 505, 218-227	6	16
95	Investigating chaos in river stage and discharge time series. <i>Journal of Hydrology</i> , 2012 , 414-415, 108-117	6	66
94	Chaos and irregularity in karst percolation. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	13
93	Socio-hydrology: not a new science, but a recycled and re-worded hydrosociology. <i>Hydrological Processes</i> , 2012 , 26, 3788-3790	3.3	29
92	An error estimation method for precipitation and temperature projections for future climates. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		59
91	A comparison of alternatives for daily to sub-daily rainfall disaggregation. <i>Journal of Hydrology</i> , 2012 , 470-471, 138-157	6	62
90	Hydrologic system complexity and nonlinear dynamic concepts for a catchment classification framework. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 4119-4131	5.5	93
89	CLOSING THE LOOP WITH FRACTAL INTERPOLATING FUNCTIONS FOR GEOPHYSICAL ENCODING. <i>Fractals</i> , 2012 , 20, 261-270	3.2	4
88	Chaos Theory for Modeling Environmental Systems: Philosophy and Pragmatism 2012 , 533-555		2
87	Hydropsychology: the human side of water research. <i>Hydrological Sciences Journal</i> , 2011 , 56, 719-732	3.5	11
86	Assessment of change in design flood frequency under climate change using a multivariate downscaling model and a precipitation-runoff model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 567-581	3.5	39
85	Global climate change and its impacts on water resources planning and management: assessment and challenges. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 583-600	3.5	114
84	Dynamic characteristics of monthly rainfall in the Korean Peninsula under climate change. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 613-625	3.5	43
83	Water crisis: From conflict to cooperation—An overview. <i>Hydrological Sciences Journal</i> , 2011 , 56, 531-552	3.5	59
82	Study of discontinuities in hydrological data using catastrophe theory. <i>Hydrological Sciences Journal</i> , 2010 , 55, 1137-1151	3.5	15

81	SUMMARY AND FUTURE 2010 , 463-477		2
80	Encoding hydrologic information via a fractal geometric approach and its extensions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 625-632	3.5	6
79	Advances in Data-Based Approaches for Hydrologic Modeling and Forecasting 2010 ,		31
78	NONLINEAR DYNAMICS AND CHAOS IN HYDROLOGY 2010 , 411-461		3
77	Aerosol growth and activation in polluted air masses over a tropical metropolis in the Indian sub-continent. <i>Atmospheric Science Letters</i> , 2009 , 10, 66-74	2.4	4
76	Nonlinear dynamics and chaos in hydrologic systems: latest developments and a look forward. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 1027-1036	3.5	66
75	Measuring nonlinear dependence in hydrologic time series. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 907-916	3.5	17
74	Nonlinear extensions of a fractal-multifractal approach for environmental modeling. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 897-906	3.5	19
73	BELLS GALORE: OSCILLATIONS AND CIRCLE-MAP DYNAMICS FROM SPACE-FILLING FRACTAL FUNCTIONS. <i>Fractals</i> , 2008 , 16, 367-378	3.2	1
72	Is correlation dimension a reliable proxy for the number of dominant influencing variables for modeling risk of arsenic contamination in groundwater?. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008 , 22, 47-55	3.5	15
71	A cascade approach to continuous rainfall data generation at point locations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008 , 22, 451-459	3.5	21
70	Dominant processes concept, model simplification and classification framework in catchment hydrology. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008 , 22, 737-748	3.5	87
69	Undermining the science or undermining Nature?. <i>Hydrological Processes</i> , 2008 , 22, 893-897	3.3	16
68	The more things change, the more they stay the same: the state of hydrologic modelling. <i>Hydrological Processes</i> , 2008 , 22, 4333-4337	3.3	19
67	Chaotic Disaggregation of Daily Rainfall Time Series. <i>Journal of Korea Water Resources Association</i> , 2008 , 41, 959-967		3
66	Modeling geophysical complexity: a case for geometric determinism. <i>Hydrology and Earth System Sciences</i> , 2007 , 11, 721-724	5.5	18
65	Hydrologic complexity and classification: a simple data reconstruction approach. <i>Hydrological Processes</i> , 2007 , 21, 2713-2728	3.3	55
64	Suspended sediment load transport in the Mississippi River basin at St. Louis: temporal scaling and nonlinear determinism. <i>Earth Surface Processes and Landforms</i> , 2007 , 32, 269-280	3.7	10

63	Nonlinear determinism in river flow: prediction as a possible indicator. <i>Earth Surface Processes and Landforms</i> , 2007 , 32, 969-979	3.7	29
62	NONLINEAR DETERMINISTIC ANALYSIS OF AIR POLLUTION DYNAMICS IN A RURAL AND AGRICULTURAL SETTING. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2007 , 10, 581-597	0.8	8
61	SENSITIVITY ANALYSIS FOR NON-LINEAR SYSTEM USING SELF-ORGANIZING MAP. <i>Proceedings of Hydraulic Engineering</i> , 2007 , 51, 289-294		1
60	Nonlinear analysis of rainfall dynamics in California's Sacramento Valley. <i>Hydrological Processes</i> , 2006 , 20, 1723-1736	3.3	22
59	Identifying sources of recharge to shallow aquifers using a groundwater model. <i>Agricultural Water Management</i> , 2006 , 86, 283-287	5.9	1
58	Identification of chaos in rainfall temporal disaggregation: Application of the correlation dimension method to 5-minute point rainfall series measured with a tipping bucket and an optical raingage. <i>Journal of Hydrology</i> , 2006 , 328, 56-64	6	11
57	Describing near surface, transient flow processes in unconfined aquifers below irrigated lands: A deforming finite element model for heterogeneous aquifers. <i>Journal of Hydrology</i> , 2006 , 330, 435-443	6	2
56	Spatial pattern of arsenic contamination in shallow wells of Bangladesh: regional geology and nonlinear dynamics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006 , 20, 66-76	3.5	28
55	Correlation dimension estimation of hydrological series and data size requirement: myth and reality/Estimation de la dimension de corrlation de sfies hydrologiques et taille ncessaire du jeu de donnès: mythe et raltà. <i>Hydrological Sciences Journal</i> , 2005 , 50,	3.5	41
54	Hydrologic modeling and forecasting: role of thresholds. <i>Environmental Modelling and Software</i> , 2005 , 20, 515-519	5.2	29
53	A fractal investigation of solute travel time in a heterogeneous aquifer: transition probability/Markov chain representation. <i>Ecological Modelling</i> , 2005 , 182, 355-370	3	11
52	Solute transport in a heterogeneous aquifer: a search for nonlinear deterministic dynamics. <i>Nonlinear Processes in Geophysics</i> , 2005 , 12, 211-218	2.9	11
51	Chaos in rainfall: variability, temporal scale and zeros. <i>Journal of Hydroinformatics</i> , 2005 , 7, 175-184	2.6	12
50	Streamflow disaggregation: a nonlinear deterministic approach. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 383-392	2.9	18
49	Describing Near Surface, Transient Flow Processes in Unconfined Aquifers below Irrigated Lands: Model Application in the Western San Joaquin Valley, California. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2004 , 130, 451-459	1.1	6
48	Temporal scaling in river flow: can it be chaotic? / L'nhvariance d'ehelle de l'boulement fluvial peut-elle tre chaotique?. <i>Hydrological Sciences Journal</i> , 2004 , 49,	3.5	30
47	Calibration and validation of a three-dimensional subsurface irrigation hydrology model. <i>Irrigation and Drainage Systems</i> , 2004 , 18, 211-225		2
46	Chaos theory in geophysics: past, present and future. <i>Chaos, Solitons and Fractals</i> , 2004 , 19, 441-462	9.3	134

45	Dominant processes concept in hydrology: moving forward. <i>Hydrological Processes</i> , 2004 , 18, 2349-2353	3.3	81
44	A deterministic width function model. <i>Nonlinear Processes in Geophysics</i> , 2003 , 10, 525-529	2.9	13
43	Forecasting monthly streamflow dynamics in the western United States: a nonlinear dynamical approach. <i>Environmental Modelling and Software</i> , 2003 , 18, 721-728	5.2	43
42	Sediment transport phenomenon in rivers: an alternative perspective. <i>Environmental Modelling and Software</i> , 2003 , 18, 831-838	5.2	3
41	Predicting the Dielectric Constant-Water Content Relationship Using Artificial Neural Networks. <i>Soil Science Society of America Journal</i> , 2002 , 66, 1424-1429	2.5	29
40	Characterization and prediction of runoff dynamics: a nonlinear dynamical view. <i>Advances in Water Resources</i> , 2002 , 25, 179-190	4.7	100
39	Reply to "Which chaos in the rainfall-runoff process?" <i>Hydrological Sciences Journal</i> , 2002 , 47, 149-158	3.5	37
38	An investigation of the presence of low-dimensional chaotic behaviour in the sediment transport phenomenon. <i>Hydrological Sciences Journal</i> , 2002 , 47, 405-416	3.5	40
37	MODELING HIGH-RESOLUTION RAIN RATES VIA A DETERMINISTIC FRACTAL-MULTIFRACTAL APPROACH. <i>Fractals</i> , 2002 , 10, 387-394	3.2	17
36	CHAOS AND STOCHASTICITY IN DETERMINISTICALLY GENERATED MULTIFRACTAL MEASURES. <i>Fractals</i> , 2002 , 10, 91-102	3.2	8
35	Analysis of cross-correlated chaotic streamflows. <i>Hydrological Sciences Journal</i> , 2002 , 47, 523-527	3.5	5
34	Is correlation dimension a reliable indicator of low-dimensional chaos in short hydrological time series?. <i>Water Resources Research</i> , 2002 , 38, 3-1-3-8	5.4	38
33	A phase-space reconstruction approach to prediction of suspended sediment concentration in rivers. <i>Journal of Hydrology</i> , 2002 , 258, 149-162	6	84
32	River flow forecasting: use of phase-space reconstruction and artificial neural networks approaches. <i>Journal of Hydrology</i> , 2002 , 265, 225-245	6	214
31	A deterministic geometric representation of temporal rainfall: sensitivity analysis for a storm in Boston. <i>Journal of Hydrology</i> , 2002 , 269, 224-235	6	17
30	Comment on "Rainfall and runoff forecasting with SSA-SVM approach" <i>Journal of Hydroinformatics</i> , 2002 , 4, 213-217	2.6	
29	A fractal-multifractal approach to groundwater contamination. 1. Modeling conservative tracers at the Borden site. <i>Stochastic Environmental Research and Risk Assessment</i> , 2001 , 15, 357-371	3.5	12
28	A fractal-multifractal approach to groundwater contamination. 2. Predicting conservative tracers at the Borden site. <i>Stochastic Environmental Research and Risk Assessment</i> , 2001 , 15, 372-383	3.5	12

27	Is a chaotic multi-fractal approach for rainfall possible?. <i>Hydrological Processes</i> , 2001 , 15, 943-955	3.3	44
26	Monthly runoff prediction using phase space reconstruction. <i>Hydrological Sciences Journal</i> , 2001 , 46, 377-387	3.5	54
25	A chaotic approach to rainfall disaggregation. <i>Water Resources Research</i> , 2001 , 37, 61-72	5.4	84
24	Using neural networks for calibration of time-domain reflectometry measurements. <i>Hydrological Sciences Journal</i> , 2001 , 46, 389-398	3.5	20
23	Evidence of chaos in the rainfall-runoff process. <i>Hydrological Sciences Journal</i> , 2001 , 46, 131-145	3.5	63
22	Rainfall dynamics at different temporal scales: A chaotic perspective. <i>Hydrology and Earth System Sciences</i> , 2001 , 5, 645-652	5.5	63
21	A preliminary investigation on the scaling behaviour of rainfall observed in two different climates. <i>Hydrological Sciences Journal</i> , 2000 , 45, 203-219	3.5	9
20	Dynamics of monthly rainfall-runoff process at the Gota basin: A search for chaos. <i>Hydrology and Earth System Sciences</i> , 2000 , 4, 407-417	5.5	32
19	Chaos theory in hydrology: important issues and interpretations. <i>Journal of Hydrology</i> , 2000 , 227, 1-20	6	207
18	Fractal analysis of rainfall observed in two different climatic regions. <i>Hydrological Sciences Journal</i> , 2000 , 45, 727-738	3.5	26
17	Singapore Rainfall Behavior: Chaotic?. <i>Journal of Hydrologic Engineering - ASCE</i> , 1999 , 4, 38-48	1.8	82
16	A systematic approach to noise reduction in chaotic hydrological time series. <i>Journal of Hydrology</i> , 1999 , 219, 103-135	6	63
15	Comment on "Nonlinear analysis of river flow time sequences" by Amilcare Porporato and Luca Ridolfi. <i>Water Resources Research</i> , 1999 , 35, 895-897	5.4	12
14	EVIDENCE OF CHAOTIC BEHAVIOR IN SINGAPORE RAINFALL1. <i>Journal of the American Water Resources Association</i> , 1998 , 34, 301-310	2.1	43
13	Long-term mean river discharge estimation with multi-source grid-based global datasets. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	
12	Performance assessment of general circulation models: application of compromise programming method and global performance indicator technique. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	0
11	Combined Effects of Warming and Grazing on Rangeland Vegetation on the Qinghai-Tibet Plateau. <i>Frontiers in Environmental Science</i> ,9,	4.8	1
10	Teleconnection analysis of runoff and soil moisture over the Pearl River basin in South China		1

9	Complex networks for streamflow dynamics		7
8	Predicting long-term hydrological change caused by climate shifting in the 21st century in the headwater area of the Yellow River Basin. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	0
7	Assessment of spatiotemporal variability of precipitation using entropy indexes: a case study of Beijing, China. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
6	Impact of climate change on stormwater drainage in urban areas. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
5	A hybrid prediction model for wind speed using support vector machine and genetic programming in conjunction with error compensation. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	2
4	Transfer entropy coupled directed weighted complex network analysis of rainfall dynamics. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	
3	Towards a greater awareness for drought mitigation in China. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
2	Regional flood frequency analysis using complex networks. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
1	Chaos-directed genetic algorithms for water distribution network design: an enhanced search method. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	2