

D Nagesh Kumar

List of Publications by Year in descending order

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151
papers

5,761
citations

70961

41
h-index

85405

71
g-index

161
all docs

161
docs citations

161
times ranked

4451
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of trend detection methods and their application to detect temperature changes in India. Journal of Hydrology, 2013, 476, 212-227.	2.3	388
2	Multipurpose Reservoir Operation Using Particle Swarm Optimization. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 192-201.	1.3	228
3	Downscaling precipitation to river basin in India for IPCC SRES scenarios using support vector machine. International Journal of Climatology, 2008, 28, 401-420.	1.5	206
4	Optimal Reservoir Operation Using Multi-Objective Evolutionary Algorithm. Water Resources Management, 2006, 20, 861-878.	1.9	201
5	River Flow Forecasting using Recurrent Neural Networks. Water Resources Management, 2004, 18, 143-161.	1.9	179
6	Multi-objective particle swarm optimization for generating optimal trade-offs in reservoir operation. Hydrological Processes, 2007, 21, 2897-2909.	1.1	170
7	Ranking alternatives with fuzzy weights using maximizing set and minimizing set. Fuzzy Sets and Systems, 1999, 105, 365-375.	1.6	155
8	Ant Colony Optimization for Multi-Purpose Reservoir Operation. Water Resources Management, 2006, 20, 879-898.	1.9	150
9	Predictability of nonstationary time series using wavelet and EMD based ARMA models. Journal of Hydrology, 2013, 502, 103-119.	2.3	144
10	Multiobjective Differential Evolution with Application to Reservoir System Optimization. Journal of Computing in Civil Engineering, 2007, 21, 136-146.	2.5	132
11	Four decades of microwave satellite soil moisture observations: Part 1. A review of retrieval algorithms. Advances in Water Resources, 2017, 109, 106-120.	1.7	122
12	An Integrated Model for Optimal Reservoir Operation for Irrigation of Multiple Crops. Water Resources Research, 1996, 32, 1101-1108.	1.7	115
13	Estimation of the climate change impact on a catchment water balance using an ensemble of GCMs. Journal of Hydrology, 2018, 556, 1192-1204.	2.3	113
14	Optimal Reservoir Operation for Irrigation of Multiple Crops Using Genetic Algorithms. Journal of Irrigation and Drainage Engineering - ASCE, 2006, 132, 123-129.	0.6	112
15	Ranking of CMIP5-based global climate models for India using compromise programming. Theoretical and Applied Climatology, 2017, 128, 563-574.	1.3	104
16	Role of predictors in downscaling surface temperature to river basin in India for IPCC SRES scenarios using support vector machine. International Journal of Climatology, 2009, 29, 583-603.	1.5	101
17	Irrigation Planning using Genetic Algorithms. Water Resources Management, 2004, 18, 163-176.	1.9	100
18	Ranking of global climate models for India using multicriterion analysis. Climate Research, 2014, 60, 103-117.	0.4	100

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19	An efficient multi-objective optimization algorithm based on swarm intelligence for engineering design. <i>Engineering Optimization</i> , 2007, 39, 49-68.	1.5	94
20	Multicriterion decision making in irrigation planning. <i>Agricultural Systems</i> , 1999, 62, 117-129.	3.2	93
21	Optimal Irrigation Allocation: A Multilevel Approach. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2000, 126, 149-156.	0.6	89
22	Nonlinear ensemble prediction of chaotic daily rainfall. <i>Advances in Water Resources</i> , 2010, 33, 327-347.	1.7	86
23	Bayesian dynamic modeling for monthly Indian summer monsoon rainfall using El Niño Southern Oscillation (ENSO) and Equatorial Indian Ocean Oscillation (EQUINOO). <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	78
24	Prediction of high spatio-temporal resolution land surface temperature under cloudy conditions using microwave vegetation index and ANN. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 117, 40-55.	4.9	78
25	Review of approaches for selection and ensembling of GCMs. <i>Journal of Water and Climate Change</i> , 2020, 11, 577-599.	1.2	72
26	Four decades of microwave satellite soil moisture observations: Part 2. Product validation and inter-satellite comparisons. <i>Advances in Water Resources</i> , 2017, 109, 236-252.	1.7	70
27	Evolutionary algorithms, swarm intelligence methods, and their applications in water resources engineering: a state-of-the-art review. <i>H2Open Journal</i> , 2020, 3, 135-188.	0.8	70
28	Optimal Reservoir Operation for Flood Control Using Folded Dynamic Programming. <i>Water Resources Management</i> , 2010, 24, 1045-1064.	1.9	68
29	Optimal Crop Planning and Conjunctive Use of Water Resources in a Coastal River Basin. <i>Water Resources Management</i> , 2002, 16, 145-169.	1.9	66
30	Study of dynamic behaviour of recession curves. <i>Hydrological Processes</i> , 2014, 28, 784-792.	1.1	65
31	Ranking general circulation models for India using TOPSIS. <i>Journal of Water and Climate Change</i> , 2015, 6, 288-299.	1.2	63
32	Application of Artificial Neural Networks and Particle Swarm Optimization for the Management of Groundwater Resources. <i>Water Resources Management</i> , 2013, 27, 927-941.	1.9	62
33	Multisite disaggregation of monthly to daily streamflow. <i>Water Resources Research</i> , 2000, 36, 1823-1833.	1.7	59
34	Optimal reservoir operation for irrigation of multiple crops using elitist-mutated particle swarm optimization. <i>Hydrological Sciences Journal</i> , 2007, 52, 686-701.	1.2	57
35	Assessing Severe Drought and Wet Events over India in a Future Climate Using a Nested Bias-Correction Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 760-772.	0.8	57
36	Folded Dynamic Programming for Optimal Operation of Multireservoir System. <i>Water Resources Management</i> , 2003, 17, 337-353.	1.9	54

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37	Assessing future rainfall projections using multiple GCMs and a multi-site stochastic downscaling model. <i>Journal of Hydrology</i> , 2013, 488, 84-100.	2.3	50
38	Ranking Irrigation Planning Alternatives Using Data Envelopment Analysis. <i>Water Resources Management</i> , 2006, 20, 553-566.	1.9	49
39	Evolving strategies for crop planning and operation of irrigation reservoir system using multi-objective differential evolution. <i>Irrigation Science</i> , 2008, 26, 177-190.	1.3	45
40	Characterizing Drought Using the Reliability-Resilience-Vulnerability Concept. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 859-869.	0.8	45
41	Probabilistic prediction of hydroclimatic variables with nonparametric quantification of uncertainty. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
42	Data mining for evolution of association rules for droughts and floods in India using climate inputs. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	44
43	Ranking multi-criterion river basin planning alternatives using fuzzy numbers. <i>Fuzzy Sets and Systems</i> , 1998, 100, 89-99.	1.6	40
44	Spectral-spatial classification of hyperspectral data with mutual information based segmented stacked autoencoder approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 138, 265-280.	4.9	40
45	Basin-scale streamflow forecasting using the information of large-scale atmospheric circulation phenomena. <i>Hydrological Processes</i> , 2008, 22, 643-650.	1.1	39
46	Artificial neural networks and multicriterion analysis for sustainable irrigation planning. <i>Computers and Operations Research</i> , 2006, 33, 1138-1153.	2.4	38
47	Performance evaluation of elitist-mutated multi-objective particle swarm optimization for integrated water resources management. <i>Journal of Hydroinformatics</i> , 2009, 11, 79-88.	1.1	38
48	Dry spell characteristics over India based on IMD and APHRODITE datasets. <i>Climate Dynamics</i> , 2014, 43, 3419-3437.	1.7	37
49	Multifractal characterization of meteorological drought in India using detrended fluctuation analysis. <i>International Journal of Climatology</i> , 2019, 39, 4234-4255.	1.5	37
50	An Overview of Flood Concepts, Challenges, and Future Directions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2022, 27, .	0.8	36
51	Multivariate nonlinear ensemble prediction of daily chaotic rainfall with climate inputs. <i>Journal of Hydrology</i> , 2011, 403, 292-306.	2.3	35
52	Integrated Sustainable Irrigation Planning with Multiobjective Fuzzy Optimization Approach. <i>Water Resources Management</i> , 2013, 27, 3981-4004.	1.9	34
53	Predictive uncertainty of chaotic daily streamflow using ensemble wavelet networks approach. <i>Water Resources Research</i> , 2011, 47, .	1.7	32
54	Spatio-temporal variability of temperature and potential evapotranspiration over India. <i>Journal of Water and Climate Change</i> , 2016, 7, 810-822.	1.2	32

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55	Stochastic models of streamflow: some case studies. <i>Hydrological Sciences Journal</i> , 1990, 35, 395-410.	1.2	30
56	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.	2.3	30
57	Simultaneous retrieval of global scale Vegetation Optical Depth, surface roughness, and soil moisture using X-band AMSR-E observations. <i>Remote Sensing of Environment</i> , 2019, 234, 111473.	4.6	30
58	Extended Muskingum method for flood routing. <i>Journal of Hydro-Environment Research</i> , 2011, 5, 127-135.	1.0	27
59	REVIEW OF HYDROCLIMATIC TELECONNECTION BETWEEN HYDROLOGIC VARIABLES AND LARGE-SCALE ATMOSPHERIC CIRCULATION PATTERNS WITH INDIAN PERSPECTIVE. <i>ISH Journal of Hydraulic Engineering</i> , 2007, 13, 77-92.	1.1	26
60	A general geomorphological recession flow model for river basins. <i>Water Resources Research</i> , 2013, 49, 4900-4906.	1.7	25
61	What mainly controls recession flows in river basins?. <i>Advances in Water Resources</i> , 2014, 65, 25-33.	1.7	25
62	Review of recent advances in climate change detection and attribution studies: a large-scale hydroclimatological perspective. <i>Journal of Water and Climate Change</i> , 2020, 11, 1-29.	1.2	25
63	End depth computation in inverted semicircular channels using ANNs. <i>Flow Measurement and Instrumentation</i> , 2004, 15, 285-293.	1.0	23
64	Fuzzy multicriterion decision making in irrigation planning. <i>Irrigation and Drainage</i> , 2005, 54, 455-465.	0.8	22
65	Hydroclimatic association of the monthly summer monsoon rainfall over India with large-scale atmospheric circulations from tropical Pacific Ocean and the Indian Ocean region. <i>Atmospheric Science Letters</i> , 2006, 7, 101-107.	0.8	22
66	Selection of global climate models for India using cluster analysis. <i>Journal of Water and Climate Change</i> , 2016, 7, 764-774.	1.2	22
67	Bayesian dynamic modelling for nonstationary hydroclimatic time series forecasting along with uncertainty quantification. <i>Hydrological Processes</i> , 2008, 22, 3488-3499.	1.1	21
68	Prediction of Land Surface Temperature Under Cloudy Conditions Using Microwave Remote Sensing and ANN. <i>Aquatic Procedia</i> , 2015, 4, 1381-1388.	0.9	21
69	Estimation of "drainable" storage " A geomorphological approach. <i>Advances in Water Resources</i> , 2015, 77, 37-43.	1.7	21
70	IRRIGATION PLANNING OF SRI RAM SAGAR PROJECT USING MULTI OBJECTIVE FUZZY LINEAR PROGRAMMING. <i>ISH Journal of Hydraulic Engineering</i> , 2000, 6, 55-63.	1.1	20
71	Classification of Indian meteorological stations using cluster and fuzzy cluster analysis, and Kohonen artificial neural networks. <i>Hydrology Research</i> , 2007, 38, 303-314.	1.1	20
72	Regional variation of recession flow power-law exponent. <i>Hydrological Processes</i> , 2018, 32, 866-872.	1.1	20

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73	Assessment of Surface Water Storage trends for increasing groundwater areas in India. Journal of Hydrology, 2018, 562, 780-788.	2.3	19
74	Prediction of Ground Water Levels in the Uplands of a Tropical Coastal Riparian Wetland using Artificial Neural Networks. Water Resources Management, 2013, 27, 871-883.	1.9	17
75	Multi-site downscaling of maximum and minimum daily temperature using support vector machine. International Journal of Climatology, 2014, 34, 1538-1560.	1.5	17
76	Intercomparison of CMIP5 and CMIP3 simulations of the 20th century maximum and minimum temperatures over India and detection of climatic trends. Theoretical and Applied Climatology, 2017, 128, 465-489.	1.3	17
77	Hydroclimatic teleconnection between global sea surface temperature and rainfall over India at subdivisinal monthly scale. Hydrological Processes, 2007, 21, 1802-1813.	1.1	16
78	Modelling the impact of extensive irrigation on the groundwater resources. Hydrological Processes, 2014, 28, 628-639.	1.1	16
79	Evaluation of TRMM PR Sampling Error Over a Subtropical Basin Using Bootstrap Technique. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6870-6881.	2.7	16
80	Evaluation of Precipitation Retrievals From Orbital Data Products of TRMM Over a Subtropical Basin in India. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6429-6442.	2.7	16
81	Hydroclimatic influence of large-scale circulation on the variability of reservoir inflow. Hydrological Processes, 2009, 23, 934-942.	1.1	14
82	Evaluation of Feature Selection and Feature Extraction Techniques on Multi-Temporal Landsat-8 Images for Crop Classification. Remote Sensing in Earth Systems Sciences, 2019, 2, 197-207.	1.1	14
83	Data Mining for Evolving Fuzzy Association Rules for Predicting Monsoon Rainfall of India. Journal of Intelligent Systems, 2009, 18, .	1.2	13
84	FUZZY DATA ENVELOPMENT ANALYSIS FOR PERFORMANCE EVALUATION OF AN IRRIGATION SYSTEM. Irrigation and Drainage, 2013, 62, 170-180.	0.8	13
85	Classification of microwatersheds based on morphological characteristics. Journal of Hydro-Environment Research, 2011, 5, 101-109.	1.0	12
86	Multiobjective fuzzy optimization for sustainable groundwater management using particle swarm optimization and analytic element method. Hydrological Processes, 2015, 29, 4175-4187.	1.1	12
87	Linkage between global sea surface temperature and hydroclimatology of a major river basin of India before and after 1980. Environmental Research Letters, 2017, 12, 124002.	2.2	12
88	Ranking of river basin alternatives using ELECTRE. Hydrological Sciences Journal, 1996, 41, 697-713.	1.2	11
89	Assessing GCM Convergence for India Using the Variable Convergence Score. Journal of Hydrologic Engineering - ASCE, 2014, 19, 1237-1246.	0.8	11
90	Analyzing Large-Scale Hydrologic Processes Using GRACE and Hydrometeorological Datasets. Water Resources Management, 2018, 32, 4409-4423.	1.9	11

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91	Chaotic time series analysis with neural networks to forecast cash demand in ATMs. , 2014, , .		10
92	Canopy Averaged Chlorophyll Content Prediction of Pear Trees Using Convolutional Autoencoder on Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1426-1437.	2.3	10
93	Daily relative humidity projections in an Indian river basin for IPCC SRES scenarios. Theoretical and Applied Climatology, 2012, 108, 85-104.	1.3	9
94	A novel approach to validate satellite soil moisture retrievals using precipitation data. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,516.	1.2	9
95	Detection and attribution of seasonal temperature changes in India with climate models in the CMIP5 archive. Journal of Water and Climate Change, 2016, 7, 83-102.	1.2	9
96	Impact of Climate Change on Water Resources. Springer Climate, 2018, , .	0.3	9
97	Comparative Evaluation of Inversion Approaches of the Radiative Transfer Model for Estimation of Crop Biophysical Parameters. International Agrophysics, 2015, 29, 201-212.	0.7	8
98	Decline in terrestrial water recharge with increasing global temperatures. Science of the Total Environment, 2021, 764, 142913.	3.9	8
99	End-depth in inverted semicircular channels: experimental and theoretical studies. Hydrology Research, 2004, 35, 73-79.	1.1	8
100	Generating pre-harvest crop maps by applying convolutional neural network on multi-temporal Sentinel-1 data. International Journal of Remote Sensing, 2022, 43, 6078-6101.	1.3	8
101	An empirical model to predict arsenic pollution affected life expectancy. Population and Environment, 2014, 36, 219-233.	1.3	7
102	Copula-Based Modeling of TMI Brightness Temperature With Rainfall Type. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4832-4845.	2.7	6
103	Climate change scenarios of surface solar radiation in data sparse regions: a case study in Malaprabha River Basin, India. Climate Research, 2014, 59, 259-270.	0.4	6
104	Performance evaluation of satellite-based approaches for the estimation of daily air temperature and reference evapotranspiration. Hydrological Sciences Journal, 2018, 63, 1347-1367.	1.2	6
105	Transformation of Multispectral Data to Quasi-Hyperspectral Data Using Convolutional Neural Network Regression. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3352-3368.	2.7	6
106	Detection and attribution of climate change signals in South India maximum and minimum temperatures. Climate Research, 2018, 76, 145-160.	0.4	6
107	Prioritization of sub-catchments of a river basin using DEM and Fuzzy VIKOR. H2Open Journal, 2018, 1, 1-11.	0.8	5
108	Trend Detection Analysis of Seasonal Rainfall of Homogeneous Regions and All India, Prepared by Using Individual Month Rainfall Values. Water Conservation Science and Engineering, 2018, 3, 129-138.	0.9	5

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109	Estimation of Daily Actual Evapotranspiration Using Vegetation Coefficient Method for Clear and Cloudy Sky Conditions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2385-2395.	2.3	5
110	Effect of Structural Uncertainty in Passive Microwave Soil Moisture Retrieval Algorithm. Sensors, 2020, 20, 1225.	2.1	5
111	Elitist-Mutated Multi-Objective Particle Swarm Optimization for Engineering Design. Advances in Information Quality and Management, 2014, , 3534-3545.	0.3	5
112	Performance evaluation of convolutional neural network at hyperspectral and multispectral resolution for classification. , 2019, , .		5
113	Impact of Climate Change on Hydrometeorological Variables in a River Basin in India for IPCC SRES Scenarios. , 2013, , 327-356.		4
114	Rainfall screening methodology using TRMM data over a river basin. Hydrological Sciences Journal, 2016, 61, 2540-2551.	1.2	4
115	Trend Analyses of Seasonal Streamflows of the Tapi Basin. Water Conservation Science and Engineering, 2019, 4, 1-11.	0.9	4
116	Delineation of flood-prone areas using modified topographic index for a river basin. H2Open Journal, 2020, 3, 58-68.	0.8	4
117	Estimation of seasonal base flow contribution to a tropical river using stable isotope analysis. Journal of Hydrology, 2021, 601, 126661.	2.3	4
118	Partial informational correlation-based band selection for hyperspectral image classification. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	4
119	Evaluation of TRMM Precipitation Products over Indian Subcontinent. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-8, 355-358.	0.2	4
120	DATA MINING AND ITS APPLICATIONS FOR MODELLING RAINFALL EXTREMES. ISH Journal of Hydraulic Engineering, 2009, 15, 25-51.	1.1	3
121	Climate change impact assessment. , 0, , 43-87.		3
122	Evaluation Framework of Landsat 8â€‘Based Actual Evapotranspiration Estimates in Data-Sparse Catchment. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	3
123	Impact of bare soil pixels identification on clay content mapping using airborne hyperspectral AVIRIS-NG data: spectral indices <i>versus</i> spectral unmixing. Geocarto International, 2024, 37, 15912-15934.	1.7	3
124	Selection of Global Climate Models. Springer Climate, 2018, , 27-75.	0.3	2
125	Estimation of daily vegetation coefficients using MODIS data for clear and cloudy sky conditions. International Journal of Remote Sensing, 2018, 39, 3776-3800.	1.3	2
126	Multicriterion decision making in groundwater planning. Journal of Hydroinformatics, 2021, 23, 627-638.	1.1	2

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127	Channel evolution of the Himalayan tributaries in northern Brahmaputra plain in recent centuries. Acta Geophysica, 2022, 70, 1317-1330.	1.0	2
128	Artificial Neural Network Approach for Streamflow Forecasting in India Using ENSO and EQUINOO. , 2006, , 1.		1
129	Hydrologic modeling for floods. , 0, , 5-42.		1
130	Remote sensing for hydrologic modeling. , 0, , 88-119.		1
131	Prioritisation of micro-catchments based on morphology. Water Management, 2013, 166, 367-380.	0.4	1
132	Predictability and chaotic nature of daily streamflow. Australian Journal of Water Resources, 2013, 17, .	1.6	1
133	Inter-comparison of GRACE data over India. Proceedings of SPIE, 2016, , .	0.8	1
134	Downscaling Techniques in Climate Modeling. Springer Climate, 2018, , 77-105.	0.3	1
135	Modeling for Flood Control and Management. , 2010, , 147-168.		1
136	Validation of Satellite Soil Moisture Retrievals using Precipitation Records in India. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-8, 367-370.	0.2	1
137	REMOTE SENSING APPLICATIONS TO WATER RESOURCES. , 2002, , 287-316.		1
138	Identification of prominent spatio-temporal signals in GRACE derived terrestrial water storage for India. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-8, 333-338.	0.2	1
139	Editorial: Evolutionary Algorithms in Water Resources. H2Open Journal, 2020, 3, 390-391.	0.8	1
140	Geographic information systems for hydrologic modeling. , 0, , 120-145.		0
141	Making the Most of the Earth Observation Data Using Effective Sampling Techniques. , 2017, , 257-272.		0
142	Statistical and Optimization Techniques in Climate Modeling. Springer Climate, 2018, , 107-135.	0.3	0
143	Editorial of the IWA H2 Open Journal Disseminating research addressing 21st century water challenges to all. H2Open Journal, 2018, 1, 85-86.	0.8	0
144	Integration of GRACE Data for Improvement of Hydrological Models. Springer Water, 2019, , 1-22.	0.2	0

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145	Genetic Algorithms in Irrigation Planning: A Case Study of Sri Ram Sagar Project, India. Studies in Fuzziness and Soft Computing, 2004, , 431-443.	0.6	0
146	Characterization of Sampling Error in Instantaneous Orbital Data Products of TRMM over Indian Subcontinent. , 2016, , 711-714.		0
147	Editorial: Disseminating research addressing 21st century water challenges to all. , 0, , .		0
148	Increasing Surface Water Trends In Peninsular India. , 2018, , .		0
149	Satellites To Estimate Reference Evapotranspiration And Air Temperature. , 2018, , .		0
150	Editorial: Hydrologic extremes. Journal of Water and Climate Change, 2020, 11, v-vii.	1.2	0
151	Recent developments of the journal. Journal of Water and Climate Change, 2020, 11, 931-932.	1.2	0