

Ajay Kalra

List of Publications by Citations

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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.

80
papers

1,712
citations

23
h-index

40
g-index

99
ext. papers

2,277
ext. citations

3.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
80	Estimating soil moisture using remote sensing data: A machine learning approach. <i>Advances in Water Resources</i> , 2010 , 33, 69-80	4.7	263
79	Evaluating the effect of persistence on long-term trends and analyzing step changes in streamflows of the continental United States. <i>Journal of Hydrology</i> , 2014 , 517, 36-53	6	118
78	Changes in U.S. Streamflow and Western U.S. Snowpack. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008 , 13, 156-163	1.8	73
77	Using oceanic-atmospheric oscillations for long lead time streamflow forecasting. <i>Water Resources Research</i> , 2009 , 45,	5.4	71
76	Increasing streamflow forecast lead time for snowmelt-driven catchment based on large-scale climate patterns. <i>Advances in Water Resources</i> , 2013 , 53, 150-162	4.7	67
75	Interconnections between oceanic-atmospheric indices and variability in the U.S. streamflow. <i>Journal of Hydrology</i> , 2015 , 525, 724-736	6	58
74	Evaluating changes and estimating seasonal precipitation for the Colorado River Basin using a stochastic nonparametric disaggregation technique. <i>Water Resources Research</i> , 2011 , 47,	5.4	58
73	Using large-scale climatic patterns for improving long lead time streamflow forecasts for Gunnison and San Juan River Basins. <i>Hydrological Processes</i> , 2013 , 27, 1543-1559	3.3	56
72	Improving Streamflow Forecast Lead Time Using Oceanic-Atmospheric Oscillations for Kaidu River Basin, Xinjiang, China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 1031-1040	1.8	52
71	Estimating annual precipitation for the Colorado River Basin using oceanic-atmospheric oscillations. <i>Water Resources Research</i> , 2012 , 48,	5.4	51
70	Interconnections between oceanic-atmospheric indices and variability in the U.S. streamflow. <i>Journal of Hydrology</i> , 2015 , 525, 724-736	6	48
69	Pacific Ocean SST and Z500 climate variability and western U.S. seasonal streamflow. <i>International Journal of Climatology</i> , 2016 , 36, 1515-1533	3.5	47
68	Wavelet analyses of western US streamflow with ENSO and PDO. <i>Journal of Water and Climate Change</i> , 2017 , 8, 26-39	2.3	41
67	Potential of rooftop rainwater harvesting to meet outdoor water demand in arid regions. <i>Journal of Arid Land</i> , 2018 , 10, 68-83	2.2	41
66	Temperature and precipitation changes in the Midwestern United States: implications for water management. <i>International Journal of Water Resources Development</i> , 2017 , 33, 1003-1019	3	40
65	Wavelet-Aided Analysis to Estimate Seasonal Variability and Dominant Periodicities in Temperature, Precipitation, and Streamflow in the Midwestern United States. <i>Water Resources Management</i> , 2016 , 30, 4649-4665	3.7	38
64	Identification of Streamflow Changes across the Continental United States Using Variable Record Lengths. <i>Hydrology</i> , 2016 , 3, 24	2.8	38

63	Understanding the Effects of Climate Change on Urban Stormwater Infrastructures in the Las Vegas Valley. <i>Hydrology</i> , 2016 , 3, 34	2.8	37
62	Using Paleo Reconstructions to Improve Streamflow Forecast Lead Time in the Western United States. <i>Journal of the American Water Resources Association</i> , 2013 , 49, 1351-1366	2.1	35
61	A dynamic model for exploring water-resource management scenarios in an inland arid area: Shanshan County, Northwestern China. <i>Journal of Mountain Science</i> , 2017 , 14, 1039-1057	2.1	32
60	Multi-Scale Correlation between the Western U.S. Snow Water Equivalent and ENSO/PDO Using Wavelet Analyses. <i>Water Resources Management</i> , 2017 , 31, 2745-2759	3.7	29
59	Long-range precipitation forecasts using paleoclimate reconstructions in the western United States. <i>Journal of Mountain Science</i> , 2016 , 13, 614-632	2.1	27
58	Modeling of GRACE-Derived Groundwater Information in the Colorado River Basin. <i>Hydrology</i> , 2019 , 6, 19	2.8	25
57	Coupling HEC-RAS and HEC-HMS in Precipitation Runoff Modelling and Evaluating Flood Plain Inundation Map 2017 ,		23
56	Effects of ENSO on Temperature, Precipitation, and Potential Evapotranspiration of North India's Monsoon: An Analysis of Trend and Entropy. <i>Water (Switzerland)</i> , 2019 , 11, 189	3	22
55	Spatiotemporal Variation in the Continental US Streamflow in Association with Large-Scale Climate Signals Across Multiple Spectral Bands. <i>Water Resources Management</i> , 2019 , 33, 1947-1968	3.7	19
54	Evaluating Future Flood Scenarios Using CMIP5 Climate Projections. <i>Water (Switzerland)</i> , 2018 , 10, 1866-3		19
53	Climatological Drought Forecasting Using Bias Corrected CMIP6 Climate Data: A Case Study for India. <i>Forecasting</i> , 2020 , 2, 59-84	2.3	18
52	Hydro-climatological changes in the Colorado River Basin over a century. <i>Hydrological Sciences Journal</i> , 2017 , 62, 2280-2296	3.5	18
51	Climatic variability of the Pacific and Atlantic Oceans and western US snowpack. <i>International Journal of Climatology</i> , 2018 , 38, 1257-1269	3.5	16
50	Hydrologic responses to climate change using downscaled GCM data on a watershed scale. <i>Journal of Water and Climate Change</i> , 2019 , 10, 63-77	2.3	15
49	Relationship between Ocean-Atmospheric Climate Variables and Regional Streamflow of the Conterminous United States. <i>Hydrology</i> , 2018 , 5, 30	2.8	14
48	Estimating High-Resolution Groundwater Storage from GRACE: A Random Forest Approach. <i>Environments - MDPI</i> , 2019 , 6, 63	3.2	13
47	Bringing statistical learning machines together for hydro-climatological predictions - Case study for Sacramento San joaquin River Basin, California. <i>Journal of Hydrology: Regional Studies</i> , 2020 , 27, 100651	3.6	11
46	Future Changes in Water Supply and Demand for Las Vegas Valley: A System Dynamic Approach based on CMIP3 and CMIP5 Climate Projections. <i>Hydrology</i> , 2020 , 7, 16	2.8	8

45	Flood Frequency Analysis Using Generalized Extreme Value Distribution and Floodplain Mapping for Hurricane Harvey in Buffalo Bayou 2018 ,		8
44	CMIP5 Models Ability to Capture Observed Trends under the Influence of Shifts and Persistence: An In-Depth Study on the Colorado River Basin. <i>Journal of Applied Meteorology and Climatology</i> , 2019 , 58, 1677-1688	2.7	8
43	Linkage between ENSO phases and western US snow water equivalent. <i>Atmospheric Research</i> , 2020 , 236, 104827	5.4	8
42	Streamflow Forecasting Using Singular Value Decomposition and Support Vector Machine for the Upper Rio Grande River Basin. <i>Journal of the American Water Resources Association</i> , 2019 , 55, 680-699	2.1	7
41	Conservation Reserve Program effects on floodplain land cover management. <i>Journal of Environmental Management</i> , 2018 , 214, 305-314	7.9	7
40	2D Unsteady Flow Routing and Flood Inundation Mapping for Lower Region of Brazos River Watershed 2017 ,		7
39	Multi-Scale Correlation between the Western U.S. Snow Water Equivalent and ENSO/PDO Using Wavelet Analyses 2017 , 31, 2745		7
38	Rainfall-Runoff Simulation Using Climate Change Based Precipitation Prediction in HEC-HMS Model for Irwin Creek, Charlotte, North Carolina 2018 ,		7
37	Response of Climate Change on Urban Watersheds: A Case Study for Las Vegas, NV 2017 ,		6
36	Application of HEC-RAS to Study the Sediment Transport Characteristics of Maumee River in Ohio 2019 ,		6
35	Rainfall-Runoff Simulation in Cache River Basin, Illinois, Using HEC-HMS 2019 ,		5
34	Land Ocean Atmosphere Influences on Groundwater Variability in the South Atlantic Gulf Region. <i>Hydrology</i> , 2020 , 7, 71	2.8	5
33	Understanding Suitability of MIKE 21 and HEC-RAS for 2D Floodplain Modeling 2020 ,		5
32	Assessing the Effects of Climate Variability on Groundwater in Northern India 2020 ,		5
31	Regional Climatological Drought: An Assessment Using High-Resolution Data. <i>Hydrology</i> , 2020 , 7, 33	2.8	5
30	A dynamic model for exploring water-resource management scenarios in an inland arid area: Shanshan County, Northwestern China 2017 , 14, 1039		5
29	Hydro-climatological changes in the Colorado River Basin over a century		5
28	Role of Low Impact Development in the Attenuation of Flood Flows in Urban Areas 2016 ,		4

27	Improving Streamflow Reconstructions Using Oceanic-Atmospheric Climate Variability 2014 ,		4
26	Flood Risk Assessment Using the Updated FEMA Floodplain Standard in the Ellicott City, Maryland, United States 2017 ,		4
25	Insights into Reconstructing Sacramento River Flow Using Tree Rings and Pacific Ocean Climate Variability 2015 ,		4
24	Temperature and precipitation changes in the Midwestern United States: implications for water management		4
23	Forecasting of Future Flooding and Risk Assessment under CMIP6 Climate Projection in Neuse River, North Carolina. <i>Forecasting</i> , 2020 , 2, 323-345	2.3	4
22	A Conceptualized Groundwater Flow Model Development for Integration with Surface Hydrology Model 2017 ,		3
21	Using Wavelet to Analyze Periodicities in Hydrologic Variables 2017 ,		3
20	Long-range precipitation forecasts using paleoclimate reconstructions in the western United States 2016 , 13, 614		3
19	Potential of rooftop rainwater harvesting to meet outdoor water demand in arid regions 2018 , 10, 68		3
18	Modeling Floodplain Inundation for Monument Creek, Colorado 2016 ,		3
17	Implications of the 2015-2016 El Niño on Coastal Mississippi-Alabama Streamflow and Agriculture. <i>Hydrology</i> , 2019 , 6, 96	2.8	3
16	Using SWAT to Simulate Streamflow in Trinity River Basin, Texas, USA 2019 ,		2
15	Is Climate Change Evident in U. S. Streamflow? 2006 ,		2
14	Analyzing the Impacts of Serial Correlation and Shift on the Streamflow Variability within the Climate Regions of Contiguous United States. <i>Hydrology</i> , 2020 , 7, 91	2.8	2
13	Analyzing the Effects of Short-Term Persistence and Shift in Sea Level Records along the US Coast. <i>Hydrology</i> , 2021 , 8, 17	2.8	2
12	Effects of Soil Data Resolution on the Simulated Stream Flow and Water Quality: Application of Watershed-Based SWAT Model 2018 ,		2
11	Financial Management of a Hypothetical Water Network Using System Dynamics 2018 ,		2
10	Study of Lehman Creek Watershed's Hydrologic Response to Climate Change Using Downscaled CMIP5 Projections 2016 ,		1

9	Analyzing Long-Term Changes in Precipitation and Temperature in the Midwest United States 2016 ,		1
8	Exploring CCHE2D and Its Sediment Modelling Capabilities 2018 ,		1
7	Dynamic Simulation of Lake Mead Water Levels in Response to Climate Change and Varying Demands 2018 ,		1
6	A Dynamic Simulation Approach to Analyze Hydro-Electric Energy Production under Variable Flow and Demand Conditions 2018 ,		1
5	Investigation of the Linkages between Oceanic Atmospheric Variability and Continental U.S. Streamflow 2014 ,		1
4	Wavelet-Aided Analysis to Estimate Seasonal Variability and Dominant Periodicities in Temperature, Precipitation, and Streamflow in the Midwestern United States 2016 , 30, 4649		1
3	Patterns and Periodicities of the Continental U.S. Streamflow Change 2016 ,		1
2	Analyzing the Association between ENSO and Groundwater Rise in the South Atlantic-Gulf Region in the Southeastern United States. <i>Hydrology</i> , 2021 , 8, 119	2.8	0
1	Incorporating Pacific Ocean climate information to enhance the tree-ring-based streamflow reconstruction skill. <i>Journal of Water and Climate Change</i> , 2021 , 12, 1891-1909	2.3	