

# Ajay Kalra

## 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.

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	Incorporating Pacific Ocean climate information to enhance the tree-ring-based streamflow reconstruction skill. <i>Journal of Water and Climate Change</i> , <b>2021</b> , 12, 1891-1909	2.3	
79	Analyzing the Effects of Short-Term Persistence and Shift in Sea Level Records along the US Coast. <i>Hydrology</i> , <b>2021</b> , 8, 17	2.8	2
78	Analyzing the Association between ENSO and Groundwater Rise in the South Atlantic-Gulf Region in the Southeastern United States. <i>Hydrology</i> , <b>2021</b> , 8, 119	2.8	0
77	Land-Ocean-Atmosphere Influences on Groundwater Variability in the South Atlantic-Gulf Region. <i>Hydrology</i> , <b>2020</b> , 7, 71	2.8	5
76	Understanding Suitability of MIKE 21 and HEC-RAS for 2D Floodplain Modeling <b>2020</b> ,		5
75	Assessing the Effects of Climate Variability on Groundwater in Northern India <b>2020</b> ,		5
74	Regional Climatological Drought: An Assessment Using High-Resolution Data. <i>Hydrology</i> , <b>2020</b> , 7, 33	2.8	5
73	Climatological Drought Forecasting Using Bias Corrected CMIP6 Climate Data: A Case Study for India. <i>Forecasting</i> , <b>2020</b> , 2, 59-84	2.3	18
72	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> , <b>2020</b> , 7, 16	2.8	8
71	Linkage between ENSO phases and western US snow water equivalent. <i>Atmospheric Research</i> , <b>2020</b> , 236, 104827	5.4	8
70	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> , <b>2020</b> , 27, 100651	3.6	11
69	Analyzing the Impacts of Serial Correlation and Shift on the Streamflow Variability within the Climate Regions of Contiguous United States. <i>Hydrology</i> , <b>2020</b> , 7, 91	2.8	2
68	Forecasting of Future Flooding and Risk Assessment under CMIP6 Climate Projection in Neuse River, North Carolina. <i>Forecasting</i> , <b>2020</b> , 2, 323-345	2.3	4
67	Using SWAT to Simulate Streamflow in Trinity River Basin, Texas, USA <b>2019</b> ,		2
66	Rainfall-Runoff Simulation in Cache River Basin, Illinois, Using HEC-HMS <b>2019</b> ,		5
65	Effects of ENSO on Temperature, Precipitation, and Potential Evapotranspiration of North India's Monsoon: An Analysis of Trend and Entropy. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 189	3	22
64	Spatiotemporal Variation in the Continental US Streamflow in Association with Large-Scale Climate Signals Across Multiple Spectral Bands. <i>Water Resources Management</i> , <b>2019</b> , 33, 1947-1968	3.7	19

63	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> , <b>2019</b> , 55, 680-699	2.1	7
62	Estimating High-Resolution Groundwater Storage from GRACE: A Random Forest Approach. <i>Environments - MDPI</i> , <b>2019</b> , 6, 63	3.2	13
61	Application of HEC-RAS to Study the Sediment Transport Characteristics of Maumee River in Ohio <b>2019</b> ,		6
60	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> , <b>2019</b> , 58, 1677-1688	2.7	8
59	Modeling of GRACE-Derived Groundwater Information in the Colorado River Basin. <i>Hydrology</i> , <b>2019</b> , 6, 19	2.8	25
58	Implications of the 2015-2016 El Niño on Coastal Mississippi-Alabama Streamflow and Agriculture. <i>Hydrology</i> , <b>2019</b> , 6, 96	2.8	3
57	Hydrologic responses to climate change using downscaled GCM data on a watershed scale. <i>Journal of Water and Climate Change</i> , <b>2019</b> , 10, 63-77	2.3	15
56	Potential of rooftop rainwater harvesting to meet outdoor water demand in arid regions. <i>Journal of Arid Land</i> , <b>2018</b> , 10, 68-83	2.2	41
55	Conservation Reserve Program effects on floodplain land cover management. <i>Journal of Environmental Management</i> , <b>2018</b> , 214, 305-314	7.9	7
54	Climatic variability of the Pacific and Atlantic Oceans and western US snowpack. <i>International Journal of Climatology</i> , <b>2018</b> , 38, 1257-1269	3.5	16
53	Exploring CCHE2D and Its Sediment Modelling Capabilities <b>2018</b> ,		1
52	Dynamic Simulation of Lake Mead Water Levels in Response to Climate Change and Varying Demands <b>2018</b> ,		1
51	Relationship between Ocean-Atmospheric Climate Variables and Regional Streamflow of the Conterminous United States. <i>Hydrology</i> , <b>2018</b> , 5, 30	2.8	14
50	A Dynamic Simulation Approach to Analyze Hydro-Electric Energy Production under Variable Flow and Demand Conditions <b>2018</b> ,		1
49	Flood Frequency Analysis Using Generalized Extreme Value Distribution and Floodplain Mapping for Hurricane Harvey in Buffalo Bayou <b>2018</b> ,		8
48	Potential of rooftop rainwater harvesting to meet outdoor water demand in arid regions <b>2018</b> , 10, 68		3
47	Effects of Soil Data Resolution on the Simulated Stream Flow and Water Quality: Application of Watershed-Based SWAT Model <b>2018</b> ,		2
46	Financial Management of a Hypothetical Water Network Using System Dynamics <b>2018</b> ,		2

45	Evaluating Future Flood Scenarios Using CMIP5 Climate Projections. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1866-3		19
44	Rainfall-Runoff Simulation Using Climate Change Based Precipitation Prediction in HEC-HMS Model for Irwin Creek, Charlotte, North Carolina <b>2018</b> ,		7
43	Multi-Scale Correlation between the Western U.S. Snow Water Equivalent and ENSO/PDO Using Wavelet Analyses. <i>Water Resources Management</i> , <b>2017</b> , 31, 2745-2759	3.7	29
42	Response of Climate Change on Urban Watersheds: A Case Study for Las Vegas, NV <b>2017</b> ,		6
41	Coupling HEC-RAS and HEC-HMS in Precipitation Runoff Modelling and Evaluating Flood Plain Inundation Map <b>2017</b> ,		23
40	Wavelet analyses of western US streamflow with ENSO and PDO. <i>Journal of Water and Climate Change</i> , <b>2017</b> , 8, 26-39	2.3	41
39	Hydro-climatological changes in the Colorado River Basin over a century. <i>Hydrological Sciences Journal</i> , <b>2017</b> , 62, 2280-2296	3.5	18
38	2D Unsteady Flow Routing and Flood Inundation Mapping for Lower Region of Brazos River Watershed <b>2017</b> ,		7
37	A Conceptualized Groundwater Flow Model Development for Integration with Surface Hydrology Model <b>2017</b> ,		3
36	Flood Risk Assessment Using the Updated FEMA Floodplain Standard in the Ellicott City, Maryland, United States <b>2017</b> ,		4
35	A dynamic model for exploring water-resource management scenarios in an inland arid area: Shanshan County, Northwestern China. <i>Journal of Mountain Science</i> , <b>2017</b> , 14, 1039-1057	2.1	32
34	Using Wavelet to Analyze Periodicities in Hydrologic Variables <b>2017</b> ,		3
33	Temperature and precipitation changes in the Midwestern United States: implications for water management. <i>International Journal of Water Resources Development</i> , <b>2017</b> , 33, 1003-1019	3	40
32	Multi-Scale Correlation between the Western U.S. Snow Water Equivalent and ENSO/PDO Using Wavelet Analyses <b>2017</b> , 31, 2745		7
31	A dynamic model for exploring water-resource management scenarios in an inland arid area: Shanshan County, Northwestern China <b>2017</b> , 14, 1039		5
30	Study of Lehman Creek Watershed's Hydrologic Response to Climate Change Using Downscaled CMIP5 Projections <b>2016</b> ,		1
29	Role of Low Impact Development in the Attenuation of Flood Flows in Urban Areas <b>2016</b> ,		4
28	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> , <b>2016</b> , 30, 4649-4665	3.7	38

27	Analyzing Long-Term Changes in Precipitation and Temperature in the Midwest United States <b>2016</b>		1
26	Long-range precipitation forecasts using paleoclimate reconstructions in the western United States. <i>Journal of Mountain Science</i> , <b>2016</b> , 13, 614-632	2.1	27
25	Wavelet-Aided Analysis to Estimate Seasonal Variability and Dominant Periodicities in Temperature, Precipitation, and Streamflow in the Midwestern United States <b>2016</b> , 30, 4649		1
24	Long-range precipitation forecasts using paleoclimate reconstructions in the western United States <b>2016</b> , 13, 614		3
23	Identification of Streamflow Changes across the Continental United States Using Variable Record Lengths. <i>Hydrology</i> , <b>2016</b> , 3, 24	2.8	38
22	Understanding the Effects of Climate Change on Urban Stormwater Infrastructures in the Las Vegas Valley. <i>Hydrology</i> , <b>2016</b> , 3, 34	2.8	37
21	Pacific Ocean SST and Z500 climate variability and western U.S. seasonal streamflow. <i>International Journal of Climatology</i> , <b>2016</b> , 36, 1515-1533	3.5	47
20	Patterns and Periodicities of the Continental U.S. Streamflow Change <b>2016</b> ,		1
19	Modeling Floodplain Inundation for Monument Creek, Colorado <b>2016</b> ,		3
18	Interconnections between oceanic-atmospheric indices and variability in the U.S. streamflow. <i>Journal of Hydrology</i> , <b>2015</b> , 525, 724-736	6	58
17	Insights into Reconstructing Sacramento River Flow Using Tree Rings and Pacific Ocean Climate Variability <b>2015</b> ,		4
16	Interconnections between oceanic-atmospheric indices and variability in the U.S. streamflow. <i>Journal of Hydrology</i> , <b>2015</b> , 525, 724-736	6	48
15	Improving Streamflow Reconstructions Using Oceanic-Atmospheric Climate Variability <b>2014</b> ,		4
14	Investigation of the Linkages between Oceanic Atmospheric Variability and Continental U.S. Streamflow <b>2014</b> ,		1
13	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> , <b>2014</b> , 517, 36-53	6	118
12	Using large-scale climatic patterns for improving long lead time streamflow forecasts for Gunnison and San Juan River Basins. <i>Hydrological Processes</i> , <b>2013</b> , 27, 1543-1559	3.3	56
11	Increasing streamflow forecast lead time for snowmelt-driven catchment based on large-scale climate patterns. <i>Advances in Water Resources</i> , <b>2013</b> , 53, 150-162	4.7	67
10	Using Paleo Reconstructions to Improve Streamflow Forecast Lead Time in the Western United States. <i>Journal of the American Water Resources Association</i> , <b>2013</b> , 49, 1351-1366	2.1	35

9	Improving Streamflow Forecast Lead Time Using Oceanic-Atmospheric Oscillations for Kaidu River Basin, Xinjiang, China. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2013</b> , 18, 1031-1040	1.8	52
8	Estimating annual precipitation for the Colorado River Basin using oceanic-atmospheric oscillations. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	51
7	Evaluating changes and estimating seasonal precipitation for the Colorado River Basin using a stochastic nonparametric disaggregation technique. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	58
6	Estimating soil moisture using remote sensing data: A machine learning approach. <i>Advances in Water Resources</i> , <b>2010</b> , 33, 69-80	4.7	263
5	Using oceanic-atmospheric oscillations for long lead time streamflow forecasting. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	71
4	Changes in U.S. Streamflow and Western U.S. Snowpack. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 156-163	1.8	73
3	Is Climate Change Evident in U. S. Streamflow? <b>2006</b> ,		2
2	Hydro-climatological changes in the Colorado River Basin over a century		5
1	Temperature and precipitation changes in the Midwestern United States: implications for water management		4