

Shih-Chieh Kao

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,272
citations

186265
28
h-index

155660
55
g-index

78
all docs

78
docs citations

78
times ranked

3760
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative effect of anthropogenic warming and natural climate variability to changes in Compound drought and heatwaves. <i>Journal of Hydrology</i> , 2022, 605, 127396.	5.4	28
2	The implications of future climate change on the blue water footprint of hydropower in the contiguous US [*] . <i>Environmental Research Letters</i> , 2021, 16, 034003.	5.2	10
3	Reanalysis of Water Withdrawal for Irrigation, Electric Power, and Public Supply Sectors in the Conterminous United States, 1950â€”2016. <i>Water Resources Research</i> , 2021, 57, e2020WR027751.	4.2	8
4	Simulation of Hurricane Harvey flood event through coupled hydrologicâ€”hydraulic models: Challenges and next steps. <i>Journal of Flood Risk Management</i> , 2021, 14, e12716.	3.3	14
5	Climate Change and Changes in Compound Coastalâ€”Riverine Flooding Hazard Along the U.S. Coasts. <i>Earth's Future</i> , 2021, 9, e2021EF002055.	6.3	66
6	Assessing climate-change-induced flood risk in the Conasauga River watershed: an application of ensemble hydrodynamic inundation modeling. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1739-1757.	3.6	8
7	Shifts in hydroclimatology of US megaregions in response to climate change. <i>Environmental Research Communications</i> , 2021, 3, 065002.	2.3	10
8	TRITON: A Multi-GPU open source 2D hydrodynamic flood model. <i>Environmental Modelling and Software</i> , 2021, 141, 105034.	4.5	51
9	Gridded daily weather data for North America with comprehensive uncertainty quantification. <i>Scientific Data</i> , 2021, 8, 190.	5.3	85
10	A multi-reservoir model for projecting drought impacts on thermoelectric disruption risk across the Texas power grid. <i>Energy</i> , 2021, 231, 120892.	8.8	5
11	Accounting for uncertainty in complex alluvial aquifer modeling by Bayesian multi-model approach. <i>Journal of Hydrology</i> , 2021, 601, 126682.	5.4	7
12	A heuristic tool to assess regional impacts of renewable energy infrastructure on conservation areas. <i>Biological Conservation</i> , 2021, 263, 109334.	4.1	3
13	Evaluating precipitation, streamflow, and inundation forecasting skills during extreme weather events: A case study for an urban watershed. <i>Journal of Hydrology</i> , 2021, 603, 127126.	5.4	11
14	Exploring Hydrologic Model Process Connectivity at the Continental Scale Through an Information Theory Approach. <i>Water Resources Research</i> , 2020, 56, e2020WR027340.	4.2	13
15	Variability of precipitation areal reduction factors in the conterminous United States. <i>Journal of Hydrology X</i> , 2020, 9, 100064.	1.6	3
16	Assessing Shifts in Regional Hydroclimatic Conditions of U.S. River Basins in Response to Climate Change over the 21st Century. <i>Earth's Future</i> , 2020, 8, e2020EF001657.	6.3	31
17	Quantifying the effects of urbanization on floods in a changing environment to promote water security â€” A case study of two adjacent basins in Texas. <i>Journal of Hydrology</i> , 2020, 589, 125154.	5.4	31
18	High-performance computing in water resources hydrodynamics. <i>Journal of Hydroinformatics</i> , 2020, 22, 1217-1235.	2.4	27

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19	Multi-model Hydroclimate Projections for the Alabama-Coosa-Tallapoosa River Basin in the Southeastern United States. <i>Scientific Reports</i> , 2020, 10, 2870.	3.3	15
20	Machine learning assisted hybrid models can improve streamflow simulation in diverse catchments across the conterminous US. <i>Environmental Research Letters</i> , 2020, 15, 104022.	5.2	81
21	Performance Evaluation of a Two-Dimensional Flood Model on Heterogeneous High-Performance Computing Architectures. , 2020, , .		9
22	Streamflow in the Columbia River Basin: Quantifying Changes Over the Period 1951â€“2008 and Determining the Drivers of Those Changes. <i>Water Resources Research</i> , 2019, 55, 6640-6652.	4.2	15
23	How Do Modeling Decisions Affect the Spread Among Hydrologic Climate Change Projections? Exploring a Large Ensemble of Simulations Across a Diversity of Hydroclimates. <i>Earth's Future</i> , 2019, 7, 623-637.	6.3	75
24	In Quest of Calibration Density and Consistency in Hydrologic Modeling: Distributed Parameter Calibration against Streamflow Characteristics. <i>Water Resources Research</i> , 2019, 55, 7784-7803.	4.2	44
25	Ensemble-based flood vulnerability assessment for probable maximum flood in a changing environment. <i>Journal of Hydrology</i> , 2019, 576, 342-355.	5.4	28
26	Bayesian Hierarchical Model Uncertainty Quantification for Future Hydroclimate Projections in Southern Hills-Gulf Region, USA. <i>Water (Switzerland)</i> , 2019, 11, 268.	2.7	8
27	Hurricane Harvey Highlights: Need to Assess the Adequacy of Probable Maximum Precipitation Estimation Methods. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019, 24, .	1.9	11
28	Contribution of environmental forcings to US runoff changes for the period 1950â€“2010. <i>Environmental Research Letters</i> , 2018, 13, 054023.	5.2	9
29	Sensitivity of Probable Maximum Flood in a Changing Environment. <i>Water Resources Research</i> , 2018, 54, 3913-3936.	4.2	24
30	Effects of climate change on streamflow extremes and implications for reservoir inflow in the United States. <i>Journal of Hydrology</i> , 2018, 556, 359-370.	5.4	70
31	A modeling framework for evaluating the drought resilience of a surface water supply system under non-stationarity. <i>Journal of Hydrology</i> , 2018, 563, 22-32.	5.4	24
32	A stream classification system to explore the physical habitat diversity and anthropogenic impacts in riverscapes of the eastern United States. <i>PLoS ONE</i> , 2018, 13, e0198439.	2.5	17
33	Effects of climate change on probable maximum precipitation: A sensitivity study over the Alabamaâ€“Coosaâ€“Tallapoosa River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4808-4828.	3.3	37
34	Classification of US Hydropower Dams by their Modes of Operation. <i>River Research and Applications</i> , 2016, 32, 1450-1468.	1.7	50
35	Uncertainty Analysis in Geospatial Merit Matrixâ€“Based Hydropower Resource Assessment. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, 04016020.	2.6	1
36	High-resolution ensemble projections of near-term regional climate over the continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9943-9963.	3.3	65

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37	Regional hydrologic response to climate change in the conterminous United States using high-resolution hydroclimate simulations. <i>Global and Planetary Change</i> , 2016, 143, 100-117.	3.5	92
38	Integrating a reservoir regulation scheme into a spatially distributed hydrological model. <i>Advances in Water Resources</i> , 2016, 98, 16-31.	3.8	94
39	Extreme hydrological changes in the southwestern US drive reductions in water supply to Southern California by mid century. <i>Environmental Research Letters</i> , 2016, 11, 094026.	5.2	37
40	Conjunctive management of surface and groundwater resources under projected future climate change scenarios. <i>Journal of Hydrology</i> , 2016, 540, 397-411.	5.4	33
41	Identifying High Powerâ€Density Stream Reaches through Refined Geospatial Resolution in Hydropower Resource Assessment. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, 06016001.	2.6	2
42	A multi-model and multi-index evaluation of drought characteristics in the 21st century. <i>Journal of Hydrology</i> , 2015, 526, 196-207.	5.4	296
43	A Multi-scale Spatial Approach to Address Environmental Effects of Small Hydropower Development. <i>Environmental Management</i> , 2015, 55, 217-243.	2.7	28
44	Projecting changes in annual hydropower generation using regional runoff data: An assessment of the United States federal hydropower plants. <i>Energy</i> , 2015, 80, 239-250.	8.8	82
45	A large-scale, high-resolution hydrological model parameter data set for climate change impact assessment for the conterminous US. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 67-84.	4.9	94
46	Updating the US hydrologic classification: an approach to clustering and stratifying ecohydrologic data. <i>Ecohydrology</i> , 2014, 7, 903-926.	2.4	50
47	Stream-Reach Identification for New Run-of-River Hydropower Development through a Merit Matrixâ€Based Geospatial Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 04014016.	2.6	5
48	Nearâ€Term acceleration of hydroclimatic change in the western U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,676.	3.3	86
49	Lack of uniform trends but increasing spatial variability in observed Indian rainfall extremes. <i>Nature Climate Change</i> , 2012, 2, 86-91.	18.8	258
50	Copula-Based Flood Frequency Analysis at Ungauged Basin Confluences: Nashville, Tennessee. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 790-799.	1.9	20
51	Simulating the household plug-in hybrid electric vehicle distribution and its electric distribution network impacts. <i>Transportation Research, Part D: Transport and Environment</i> , 2012, 17, 548-554.	6.8	23
52	Dependence-Preserving Approach to Synthesizing Household Characteristics. <i>Transportation Research Record</i> , 2012, 2302, 192-200.	1.9	9
53	Intensity, duration, and frequency of precipitation extremes under 21st-century warming scenarios. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	91
54	Statistical Hydrology. , 2011, , 479-517.		29

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55	A copula-based joint deficit index for droughts. Journal of Hydrology, 2010, 380, 121-134.	5.4	488
56	Reply to comment by T. P. Hutchinson on "Trivariate statistical analysis of extreme rainfall events via the Plackett family of copulas" Water Resources Research, 2010, 46, .	4.2	3
57	A Spatio-Temporal Drought Analysis for the Midwestern US. , 2009, , .		6
58	Hydrologic and Environmental Performance of a Subsurface Constructed Wetland at a Highway Rest Area: A Case Study. Water Quality, Exposure, and Health, 2009, 1, 35-48.	1.5	4
59	Motivating Complex Dependence Structures in Data Mining: A Case Study with Anomaly Detection in Climate. , 2009, , .		11
60	Trivariate statistical analysis of extreme rainfall events via the Plackett family of copulas. Water Resources Research, 2008, 44, .	4.2	186
61	At-Site Based Evaluation of Rainfall Estimates for Indiana. Journal of Hydrologic Engineering - ASCE, 2008, 13, 184-188.	1.9	1
62	Probabilistic structure of storm surface runoff considering the dependence between average intensity and storm duration of rainfall events. Water Resources Research, 2007, 43, .	4.2	45
63	A bivariate frequency analysis of extreme rainfall with implications for design. Journal of Geophysical Research, 2007, 112, .	3.3	113
64	Updated Precipitation Frequency Estimates for Kansas City: Comparison with TP-40 and HYDRO-35. Journal of Hydrologic Engineering - ASCE, 2006, 11, 206-213.	1.9	7
65	Development of regional design hyetographs. Hydrological Processes, 2005, 19, 937-946.	2.6	31