Michael Leonard

List of Publications by Year
in descending order

37	3,529	304743	330143
papers	citations	22	37
		h-index	g-index

40	40	40	4052
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Hidden Climate Indices Modeling Framework for Multivariable Space–Time Data. Water Resources Research, 2022, 58, .	4.2	4
2	Globally observed trends in mean and extreme river flow attributed to climate change. Science, 2021, 371, 1159-1162.	12.6	213
3	Estimating the probability of compound floods in estuarine regions. Hydrology and Earth System Sciences, 2021, 25, 2821-2841.	4.9	23
4	Global–Scale Prediction of Flood Timing Using Atmospheric Reanalysis. Water Resources Research, 2020, 56, e2019WR024945.	4.2	33
5	Historical and future changes in global flood magnitude – evidence from a model–observation investigation. Hydrology and Earth System Sciences, 2020, 24, 1543-1564.	4.9	40
6	A virtual hydrological framework for evaluation of stochastic rainfall models. Hydrology and Earth System Sciences, 2019, 23, 4783-4801.	4.9	4
7	Impact of ENSO on dependence between extreme rainfall and storm surge. Environmental Research Letters, 2019, 14, 124043.	5.2	13
8	Spatially dependent flood probabilities to support the design of civil infrastructure systems. Hydrology and Earth System Sciences, 2019, 23, 4851-4867.	4.9	4
9	Modeling Spatial Dependence of Rainfall Extremes Across Multiple Durations. Water Resources Research, 2018, 54, 2233-2248.	4.2	12
10	Mapping Dependence Between Extreme Rainfall and Storm Surge. Journal of Geophysical Research: Oceans, 2018, 123, 2461-2474.	2.6	68
11	A comprehensive and systematic evaluation framework for a parsimonious daily rainfall field model. Journal of Hydrology, 2018, 556, 1123-1138.	5.4	24
12	An empirical investigation into the effect of antecedent precipitation on flood volume. Journal of Hydrology, 2018, 567, 435-445.	5.4	59
13	Dependence properties of spatial rainfall extremes and areal reduction factors. Journal of Hydrology, 2018, 565, 711-719.	5.4	20
14	Future climate risk from compound events. Nature Climate Change, 2018, 8, 469-477.	18.8	1,074
15	The Global Streamflow Indices and Metadata Archive (GSIM) – Part 1: The production of a daily streamflow archive and metadata. Earth System Science Data, 2018, 10, 765-785.	9.9	143
16	The Global Streamflow Indices and Metadata Archive (GSIM) – Part 2: Quality control, time-series indices and homogeneity assessment. Earth System Science Data, 2018, 10, 787-804.	9.9	84
17	Application of the design variable method to estimate coastal flood risk. Journal of Flood Risk Management, 2017, 10, 522-534.	3.3	23
18	A global-scale investigation of trends in annual maximum streamflow. Journal of Hydrology, 2017, 552, 28-43.	5.4	160

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19	A basis function approach for exploring the seasonal and spatial features of storm surge events. Geophysical Research Letters, 2017, 44, 7356-7365.	4.0	11
20	Natural hazards in Australia: floods. Climatic Change, 2016, 139, 21-35.	3.6	89
21	Estimating Extreme Spatial Rainfall Intensities. Journal of Hydrologic Engineering - ASCE, 2016, 21, 04015074.	1.9	6
22	Efficient joint probability analysis of flood risk. Journal of Hydroinformatics, 2015, 17, 584-597.	2.4	22
23	Assessing the performance of the independence method in modeling spatial extreme rainfall. Water Resources Research, 2015, 51, 7744-7758.	4.2	21
24	Opposing local precipitation extremes. Nature Climate Change, 2015, 5, 389-390.	18.8	62
25	A strategy for diagnosing and interpreting hydrological model nonstationarity. Water Resources Research, 2014, 50, 5090-5113.	4.2	134
26	Modeling dependence between extreme rainfall and storm surge to estimate coastal flooding risk. Water Resources Research, 2014, 50, 2050-2071.	4.2	127
27	A compound event framework for understanding extreme impacts. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 113-128.	8.1	442
28	Changes to the temporal distribution of daily precipitation. Geophysical Research Letters, 2014, 41, 8887-8894.	4.0	119
29	Spatial Variability of Stochastically Generated Rainfall. , 2012, , .		0
30	The open source RFortran library for accessing R from Fortran, with applications in environmental modelling. Environmental Modelling and Software, 2011, 26, 219-234.	4.5	14
31	Drought Analysis Using Trivariate Copulas Conditional on Climatic States. Journal of Hydrologic Engineering - ASCE, 2010, 15, 129-141.	1.9	158
32	Frequency analysis of rainfall and streamflow extremes accounting for seasonal and climatic partitions. Journal of Hydrology, 2008, 348, 135-147.	5.4	33
33	A space–time Neyman–Scott rainfall model with defined storm extent. Water Resources Research, 2008, 44, .	4.2	32
34	Implementing a space-time rainfall model for the Sydney region. Water Science and Technology, 2007, 55, 39-47.	2.5	7
35	Ant Colony Optimization Applied to Water Distribution System Design: Comparative Study of Five Algorithms. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 87-92.	2.6	96
36	Efficient simulation of a space-time Neyman-Scott rainfall model. Water Resources Research, 2006, 42, .	4.2	3

#	ARTICLE	IF	CITATIONS
37	Application of two ant colony optimisation algorithms to water distribution system optimisation. Mathematical and Computer Modelling, 2006, 44, 451-468.	2.0	137