Michael Leonard

List of Publications by Year
in descending order

37 papers	3,529 citations	304743 22 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	4052 citing authors

#	Article	IF	Citations
1	Future climate risk from compound events. Nature Climate Change, 2018, 8, 469-477.	18.8	1,074
2	A compound event framework for understanding extreme impacts. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 113-128.	8.1	442
3	Globally observed trends in mean and extreme river flow attributed to climate change. Science, 2021, 371, 1159-1162.	12.6	213
4	A global-scale investigation of trends in annual maximum streamflow. Journal of Hydrology, 2017, 552, 28-43.	5.4	160
5	Drought Analysis Using Trivariate Copulas Conditional on Climatic States. Journal of Hydrologic Engineering - ASCE, 2010, 15, 129-141.	1.9	158
6	The Global Streamflow Indices and Metadata Archive (GSIM) â€" Part 1: The production of a daily streamflow archive and metadata. Earth System Science Data, 2018, 10, 765-785.	9.9	143
7	Application of two ant colony optimisation algorithms to water distribution system optimisation. Mathematical and Computer Modelling, 2006, 44, 451-468.	2.0	137
8	A strategy for diagnosing and interpreting hydrological model nonstationarity. Water Resources Research, 2014, 50, 5090-5113.	4.2	134
9	Modeling dependence between extreme rainfall and storm surge to estimate coastal flooding risk. Water Resources Research, 2014, 50, 2050-2071.	4.2	127
10	Changes to the temporal distribution of daily precipitation. Geophysical Research Letters, 2014, 41, 8887-8894.	4.0	119
11	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
12	Natural hazards in Australia: floods. Climatic Change, 2016, 139, 21-35.	3.6	89
13	The Global Streamflow Indices and Metadata Archive (GSIM) â€" Part 2: Quality control, time-series indices and homogeneity assessment. Earth System Science Data, 2018, 10, 787-804.	9.9	84
14	Mapping Dependence Between Extreme Rainfall and Storm Surge. Journal of Geophysical Research: Oceans, 2018, 123, 2461-2474.	2.6	68
15	Opposing local precipitation extremes. Nature Climate Change, 2015, 5, 389-390.	18.8	62
16	An empirical investigation into the effect of antecedent precipitation on flood volume. Journal of Hydrology, 2018, 567, 435-445.	5.4	59
17	Historical and future changes in global flood magnitude â€" evidence from a modelâ€"observation investigation. Hydrology and Earth System Sciences, 2020, 24, 1543-1564.	4.9	40
18	Frequency analysis of rainfall and streamflow extremes accounting for seasonal and climatic partitions. Journal of Hydrology, 2008, 348, 135-147.	5.4	33

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19	Global‐Scale Prediction of Flood Timing Using Atmospheric Reanalysis. Water Resources Research, 2020, 56, e2019WR024945.	4.2	33
20	A space‐time Neyman‐Scott rainfall model with defined storm extent. Water Resources Research, 2008, 44, .	4.2	32
21	A comprehensive and systematic evaluation framework for a parsimonious daily rainfall field model. Journal of Hydrology, 2018, 556, 1123-1138.	5.4	24
22	Application of the design variable method to estimate coastal flood risk. Journal of Flood Risk Management, 2017, 10, 522-534.	3.3	23
23	Estimating the probability of compound floods in estuarine regions. Hydrology and Earth System Sciences, 2021, 25, 2821-2841.	4.9	23
24	Efficient joint probability analysis of flood risk. Journal of Hydroinformatics, 2015, 17, 584-597.	2.4	22
25	Assessing the performance of the independence method in modeling spatial extreme rainfall. Water Resources Research, 2015, 51, 7744-7758.	4.2	21
26	Dependence properties of spatial rainfall extremes and areal reduction factors. Journal of Hydrology, 2018, 565, 711-719.	5.4	20
27	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
28	Impact of ENSO on dependence between extreme rainfall and storm surge. Environmental Research Letters, 2019, 14, 124043.	5.2	13
29	Modeling Spatial Dependence of Rainfall Extremes Across Multiple Durations. Water Resources Research, 2018, 54, 2233-2248.	4.2	12
30	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
31	Implementing a space-time rainfall model for the Sydney region. Water Science and Technology, 2007, 55, 39-47.	2.5	7
32	Estimating Extreme Spatial Rainfall Intensities. Journal of Hydrologic Engineering - ASCE, 2016, 21, 04015074.	1.9	6
33	A virtual hydrological framework for evaluation of stochastic rainfall models. Hydrology and Earth System Sciences, 2019, 23, 4783-4801.	4.9	4
34	Spatially dependent flood probabilities to support the design of civil infrastructure systems. Hydrology and Earth System Sciences, 2019, 23, 4851-4867.	4.9	4
35	A Hidden Climate Indices Modeling Framework for Multivariable Space‐Time Data. Water Resources Research, 2022, 58, .	4.2	4
36	Efficient simulation of a space-time Neyman-Scott rainfall model. Water Resources Research, 2006, 42, .	4.2	3

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37	Spatial Variability of Stochastically Generated Rainfall. , 2012, , .		0