## Barry Croke

List of Publications by Year in descending order

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RADDY CDOKE

#	Article	IF	CITATIONS
1	Risk of Human Illness from Recreational Exposure to Microbial Pathogens in Freshwater Bodies: A Systematic Review. Exposure and Health, 2022, 14, 325-343.	4.9	3
2	Assessing the predictive impact of factor fixing with an adaptive uncertainty-based approach. Environmental Modelling and Software, 2022, 148, 105290.	4.5	3
3	Benchmarking Active Subspace methods of global sensitivity analysis against variance-based Sobol' and Morris methods with established test functions. Environmental Modelling and Software, 2022, 149, 105310.	4.5	2
4	Predicting wildfire induced changes to runoff: A review and synthesis of modeling approaches. Wiley Interdisciplinary Reviews: Water, 2022, 9, .	6.5	5
5	Property-based Sensitivity Analysis: An approach to identify model implementation and integration errors. Environmental Modelling and Software, 2021, 139, 105013.	4.5	2
6	A formative and self-reflective approach to monitoring and evaluation of interdisciplinary team research: An integrated water resource modelling application in Australia. Journal of Hydrology, 2021, 596, 126070.	5.4	6
7	Comparing methods of randomizing Sobol′ sequences for improving uncertainty of metrics in variance-based global sensitivity estimation. Reliability Engineering and System Safety, 2021, 210, 107499.	8.9	11
8	A methodological framework for the hydrological model selection process in water resource management projects. Natural Resource Modelling, 2021, 34, e12326.	2.0	7
9	A hybrid vector-raster approach to drainage network construction in agricultural watersheds with rice terraces and ponds. Journal of Hydrology, 2021, 601, 126585.	5.4	4
10	Certain trends in uncertainty and sensitivity analysis: An overview of software tools and techniques. Environmental Modelling and Software, 2020, 124, 104588.	4.5	49
11	Modeling Water Quality in Watersheds: From Here to the Next Generation. Water Resources Research, 2020, 56, e2020WR027721.	4.2	54
12	Position paper: Sensitivity analysis of spatially distributed environmental models- a pragmatic framework for the exploration of uncertainty sources. Environmental Modelling and Software, 2020, 134, 104857.	4.5	35
13	Quantifying climate contributions to changes in groundwater discharge for headwater catchments in a major Australian basin. Science of the Total Environment, 2020, 729, 138910.	8.0	7
14	A socio-environmental model for exploring sustainable water management futures: Participatory and collaborative modelling in the Lower Campaspe catchment. Journal of Hydrology: Regional Studies, 2020, 28, 100669.	2.4	9
15	Using Mixed Probability Distribution Functions for Modelling Non-Zero Sub-Daily Rainfall in Australia. Geosciences (Switzerland), 2020, 10, 43.	2.2	5
16	Diffuse groundwater recharge estimation confronting hydrological modelling uncertainty. Journal of Hydrology, 2020, 584, 124642.	5.4	18
17	Introductory overview of identifiability analysis: A guide to evaluating whether you have the right type of data for your modeling purpose. Environmental Modelling and Software, 2019, 119, 418-432.	4.5	93
18	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474

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19	Mapping the Distribution of Water Resource Security in the Beijing-Tianjin-Hebei Region at the County Level under a Changing Context. Sustainability, 2019, 11, 6463.	3.2	9
20	A review of catchment-scale water quality and erosion models and a synthesis of future prospects. Environmental Modelling and Software, 2019, 114, 75-97.	4.5	142
21	Enhancing the Capability of a Simple, Computationally Efficient, Conceptual Flood Inundation Model in Hydrologically Complex Terrain. Water Resources Management, 2019, 33, 831-845.	3.9	16
22	Applicability Assessment and Uncertainty Analysis of Multi-Precipitation Datasets for the Simulation of Hydrologic Models. Water (Switzerland), 2018, 10, 1611.	2.7	22
23	Flood inundation modelling: A review of methods, recent advances and uncertainty analysis. Environmental Modelling and Software, 2017, 90, 201-216.	4.5	736
24	Realizing modelling outcomes: A synthesis of success factors and their use in a retrospective analysis of 15 Australian water resource projects. Environmental Modelling and Software, 2017, 94, 63-72.	4.5	20
25	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. Hydrological Sciences Journal, 2016, 61, 2803-2817.	2.6	57
26	Groundwater salinization intensifies drought impacts in forests and reduces refuge capacity. Journal of Applied Ecology, 2015, 52, 1116-1125.	4.0	12
27	A review of surrogate models and their application to groundwater modeling. Water Resources Research, 2015, 51, 5957-5973.	4.2	366
28	Modeling the Impact of Watershed Development onÂWater Resources in India. , 2015, , 99-148.		3
29	Improving crop production for food security and improved livelihoods on the East India Plateau. I. Rainfall-related risks with rice and opportunities for improved cropping systems. Agricultural Systems, 2015, 137, 166-179.	6.1	17
30	A review of foundational methods for checking the structural identifiability of models: Results for rainfall-runoff. Journal of Hydrology, 2015, 520, 1-16.	5.4	54
31	Overcoming the challenges of using a rainfall–runoff model to estimate the impacts of groundwater extraction on low flows in an ephemeral stream. Hydrology Research, 2014, 45, 58-72.	2.7	18
32	The effects of climate change on ecologically-relevant flow regime and water quality attributes. Stochastic Environmental Research and Risk Assessment, 2014, 28, 67-82.	4.0	59
33	Water resources of Cyprus under changing climatic conditions: Modelling approach, validation and limitations. Environmental Modelling and Software, 2014, 60, 202-218.	4.5	9
34	Can NDVI response indicate the effective flood extent in macrophyte dominated floodplain wetlands?. Ecological Indicators, 2014, 45, 486-493.	6.3	45
35	Modelling for Managing the Complex Issue of Catchment-Scale Surface and Groundwater Allocation. Advances in Intelligent Systems and Computing, 2014, , 25-41.	0.6	1
36	Managed aquifer recharge in farming landscapes using large floods: an opportunity to improve outcomes for the Murray-Darling Basin?. Australasian Journal of Environmental Management, 2013, 20, 34-48.	1.1	20

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37	Addressing ten questions about conceptual rainfall–runoff models with global sensitivity analyses in R. Journal of Hydrology, 2013, 503, 135-152.	5.4	133
38	Set-membership approach for identification of parameter and prediction uncertainty in power-law relationships: The case of sediment yield. Environmental Modelling and Software, 2013, 40, 171-180.	4.5	4
39	Characterising performance of environmental models. Environmental Modelling and Software, 2013, 40, 1-20.	4.5	1,141
40	Editorial: Data-based perceptions on Predictions in Ungauged Basins. Hydrology Research, 2013, 44, 399-400.	2.7	1
41	Effects of data time-step on the accuracy of calibrated rainfall–streamflow model parameters: practical aspects of uncertainty reduction. Hydrology Research, 2013, 44, 430-440.	2.7	22
42	Coral Skeletons Provide Historical Evidence of Phosphorus Runoff on the Great Barrier Reef. PLoS ONE, 2013, 8, e75663.	2.5	23
43	åºåº¦é¢ä,´çš"æµåŸŸå¼€å规模问é¢~. Hydrogeology Journal, 2012, 20, 985-993.	2.1	26
44	Bayesian inference of uncertainties in precipitationâ€streamflow modeling in a snow affected catchment. Water Resources Research, 2012, 48, .	4.2	17
45	Water harvesting and better cropping systems for the benefit of small farmers in watersheds of the East India Plateau. Water Practice and Technology, 2012, 7, .	2.0	2
46	Three complementary methods for sensitivity analysis of a water quality model. Environmental Modelling and Software, 2012, 37, 19-29.	4.5	74
47	Impacts of meso-scale Watershed Development in Andhra Pradesh (India) and their implications for designing and implementing improved WSD policies and programs. Water Practice and Technology, 2012, 7, .	2.0	2
48	Sensitivity of modelled gross primary productivity to topographic effects on surface radiation: A case study in the Cotter River Catchment, Australia. Ecological Modelling, 2011, 222, 795-803.	2.5	12
49	An open software environment for hydrological model assessment and development. Environmental Modelling and Software, 2011, 26, 1171-1185.	4.5	122
50	An assessment of modelling capacity to identify the impacts of climate variability on catchment hydrology. Mathematics and Computers in Simulation, 2011, 81, 1419-1429.	4.4	23
51	Evaluation of approaches for estimation of rainfall and the unit hydrograph. Hydrology Research, 2011, 42, 372-385.	2.7	17
52	Discussion of "Effects of temporal resolution on hydrological model parameters and its impact on prediction of river discharge― Hydrological Sciences Journal, 2011, 56, 521-524.	2.6	5
53	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM). I: Model intercomparison with current land use. Advances in Water Resources, 2009, 32, 129-146.	3.8	177
54	Suspended sediment, nitrogen and phosphorus concentrations and exports during storm-events to the Tuross estuary, Australia. Journal of Environmental Management, 2009, 90, 879-887.	7.8	62

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55	Including the influence of groundwater exchanges in a lumped rainfall-runoff model. Mathematics and Computers in Simulation, 2009, 79, 2689-2700.	4.4	21
56	Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) IV: Model sensitivity to data aggregation and spatial (re-)distribution. Advances in Water Resources, 2009, 32, 171-192.	3.8	49
57	Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) II: Ensemble combinations and predictions. Advances in Water Resources, 2009, 32, 147-158.	3.8	128
58	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM) III: Scenario analysis. Advances in Water Resources, 2009, 32, 159-170.	3.8	87
59	Use of a simple surface–groundwater interaction model to inform water management. Australian Journal of Earth Sciences, 2009, 56, 71-80.	1.0	33
60	Modelling floodplain inundation for environmental flows: Gwydir wetlands, Australia. Ecological Modelling, 2008, 211, 350-362.	2.5	49
61	Chapter Two Good Modelling Practice. Developments in Integrated Environmental Assessment, 2008, 3, 15-31.	0.0	16
62	Disinfection by-product formation and mitigation strategies in point-of-use chlorination of turbid and non-turbid waters in western Kenya. Journal of Water and Health, 2008, 6, 67-82.	2.6	69
63	Data time-step dependency of conceptual rainfall—streamflow model parameters: an empirical study with implications for regionalisation. Hydrological Sciences Journal, 2008, 53, 685-695.	2.6	54
64	Use of the IHACRES rainfall-runoff model in arid and semi-arid regions. , 2007, , 41-48.		15
65	Integrated assessment modelling for water resource allocation and management: A generalised conceptual framework. Environmental Modelling and Software, 2007, 22, 733-742.	4.5	98
66	Predicting daily streamflow using rainfall forecasts, a simple loss module and unit hydrographs: Two Brazilian catchments. Environmental Modelling and Software, 2007, 22, 1229-1239.	4.5	16
67	An integrated modelling toolbox for water resources assessment and management in highland catchments: Model description. Agricultural Systems, 2006, 89, 106-131.	6.1	36
68	An integrated modelling toolbox for water resources assessment and management in highland catchments: Sensitivity analysis and testing. Agricultural Systems, 2006, 89, 132-164.	6.1	15
69	Development of a distributed flow model for underpinning assessment of water allocation options in the Namoi River Basin, Australia. Journal of Hydrology, 2006, 319, 51-71.	5.4	13
70	IHACRES Classic Plus: A redesign of the IHACRES rainfall-runoff model. Environmental Modelling and Software, 2006, 21, 426-427.	4.5	51
71	Integrated assessment of water resources: Australian experiences. Water Resources Management, 2006, 21, 351-373.	3.9	60
72	A technique for deriving an average event unit hydrograph from streamflow—only data for ephemeral quick-flow-dominant catchments. Advances in Water Resources, 2006, 29, 493-502.	3.8	25

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73	A review of nitrogen and phosphorus export to waterways: context for catchment modelling. Marine and Freshwater Research, 2006, 57, 757.	1.3	94
74	Integrated assessment of water resources: Australian experiences. , 2006, , 351-373.		2
75	Model design for the hydrology of tree belt plantations on hillslopes. Mathematics and Computers in Simulation, 2005, 69, 188-212.	4.4	3
76	Sensitivity testing of a model for exploring water resources utilisation and management options. Environmental Modelling and Software, 2005, 20, 1013-1030.	4.5	21
77	A deterministic model to quantify pathogen loads in drinking water catchments: pathogen budget for the Wingecarribee. Water Science and Technology, 2005, 52, 191-197.	2.5	16
78	BVRIphotometry of the galactic globular cluster NGC 6779. Monthly Notices of the Royal Astronomical Society, 2004, 348, 1157-1163.	4.4	6
79	A Biophysical Toolbox for assessment and management of land and water resources in rural catchments in Northern Thailand. Ecological Modelling, 2004, 171, 279-300.	2.5	36
80	Exploring streamflow response to effective rainfall across event magnitude scale. Hydrological Processes, 2004, 18, 1467-1486.	2.6	31
81	A catchment moisture deficit module for the IHACRES rainfall-runoff model. Environmental Modelling and Software, 2004, 19, 1-5.	4.5	107
82	Model development for integrated assessment of water allocation options. Water Resources Research, 2004, 40, .	4.2	54
83	A dynamic model for predicting hydrologic response to land cover changes in gauged and ungauged catchments. Journal of Hydrology, 2004, 291, 115-131.	5.4	96
84	The role of ?top-down? modelling for Prediction in Ungauged Basins (PUB). Hydrological Processes, 2003, 17, 1673-1679.	2.6	31
85	Evaluation of streamflow predictions by the IHACRES rainfall-runoff model in two South African catchments. Environmental Modelling and Software, 2003, 18, 705-712.	4.5	59
86	Sensitivity analysis for assessing the behaviour of a landscape-based sediment source and transport model. Environmental Modelling and Software, 2003, 18, 741-751.	4.5	37
87	J-type carbon stars in the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 2003, 341, 534-550.	4.4	12
88	Lithium in Large Magellanic Cloud carbon stars. Monthly Notices of the Royal Astronomical Society, 2003, 341, 1290-1298.	4.4	13
89	Suspected cool R Coronae Borealis stars in the Magellanic Clouds. Monthly Notices of the Royal Astronomical Society, 2003, 344, 325-335.	4.4	13
90	Predictions in catchment hydrology: an Australian perspective. Marine and Freshwater Research, 2001, 52, 65.	1.3	38

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91	The NGC 6426 RR Lyrae Variables and Horizontal-Branch Morphology. Astronomical Journal, 2000, 119, 851-858.	4.7	16
92	Water resources in the desertification-threatened Messara Valley of Crete: estimation of the annual water budget using a rainfall-runoff model. Environmental Modelling and Software, 2000, 15, 387-402.	4.5	39
93	Applications of Multi-object Spectroscopy – A large Sample of Carbon Stars in the LMC. Symposium - International Astronomical Union, 1999, 192, 480-488.	0.1	1
94	The Age of NGC 6426, a Metal-poor Globular Cluster in the Galactic Halo. Astronomical Journal, 1999, 117, 3059-3065.	4.7	12
95	Carbon and nitrogen abundance variations on the main sequence of 47 Tucanae. Monthly Notices of the Royal Astronomical Society, 1998, 298, 601-624.	4.4	163
96	Removal of Cosmic-Ray Events in Spectroscopic CCD Data. Publications of the Astronomical Society of the Pacific, 1995, 107, 1255.	3.1	9
97	Evidence from stellar abundances for a large age difference between two globular clusters. Nature, 1991, 351, 212-214.	27.8	48
98	Marrying Hydrological Modelling and Integrated Assessment for the needs of Water Resource Management. Proceedings of the International Association of Hydrological Sciences, 0, 364, 351-356.	1.0	3
99	Development of an integrated model for the Campaspe catchment: a tool to help improve understanding of the interaction between society, policy, farming decision, ecology, hydrology and climate. Proceedings of the International Association of Hydrological Sciences, 0, 379, 1-12.	1.0	5
100	Modifications to a rainfall-streamflow model to handle "non-stationarity". Proceedings of the International Association of Hydrological Sciences, 0, 371, 29-33.	1.0	0
101	Editorial: Special Issue on Water security and the food-water-energy nexus: drivers, responses and feedbacks at local to global scales. Proceedings of the International Association of Hydrological Sciences, 0, 376, 1-1.	1.0	1
102	An integrated approach to improving rural livelihoods: examples from India and Bangladesh. Proceedings of the International Association of Hydrological Sciences, 0, 376, 45-50.	1.0	1
103	Investigation of determinism-related issues in the Sobol′ low-discrepancy sequence for producing sound global sensitivity analysis indices. ANZIAM Journal, 0, 62, C84-C97.	0.0	0