

Amin A Elshorbagy

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.

84
papers

2,289
citations

31
h-index

45
g-index

95
ext. papers

2,627
ext. citations

3.7
avg, IF

5.25
L-index

#	Paper	IF	Citations
84	Changes in social vulnerability to flooding: a quasi-experimental analysis. <i>Natural Hazards</i> , 2022 , 111, 2487	3	0
83	Dynamics of water-energy-food nexus interactions with climate change and policy options. <i>Environmental Research Communications</i> , 2022 , 4, 015009	3.1	0
82	Advances in modelling large river basins in cold regions with Modélisation Environnementale Communautaire Surface and Hydrology (MESH), the Canadian hydrological land surface scheme. <i>Hydrological Processes</i> , 2022 , 36,	3.3	2
81	Trade-offs and synergies in the water-energy-food nexus: The case of Saskatchewan, Canada. <i>Resources, Conservation and Recycling</i> , 2021 , 164, 105192	11.9	21
80	ACPAR: A framework for linking national water and food security management with global conditions. <i>Advances in Water Resources</i> , 2021 , 147, 103809	4.7	4
79	Understanding human adaptation to drought: agent-based agricultural water demand modeling in the Bow River Basin, Canada. <i>Hydrological Sciences Journal</i> , 2021 , 66, 389-407	3.5	5
78	Improving the representation of the non-contributing area dynamics in land surface models for better simulation of prairie hydrology. <i>Journal of Hydrology</i> , 2021 , 600, 126562	6	2
77	Peering into agricultural rebound phenomenon using a global sensitivity analysis approach. <i>Journal of Hydrology</i> , 2021 , 602, 126739	6	3
76	Toward Simple Modeling Practices in the Complex Canadian Prairie Watersheds. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 04020024	1.8	5
75	A novel model for storage dynamics simulation and inundation mapping in the prairies. <i>Environmental Modelling and Software</i> , 2020 , 133, 104850	5.2	5
74	Revisiting flood peak distributions: A pan-Canadian investigation. <i>Advances in Water Resources</i> , 2020 , 145, 103720	4.7	8
73	Towards a time and cost effective approach to water quality index class prediction. <i>Journal of Hydrology</i> , 2019 , 575, 148-165	6	42
72	Risk-based quantification of the impact of climate change on storm water infrastructure. <i>Water Science</i> , 2018 , 32, 102-114	1.9	10
71	Flood mapping under uncertainty: a case study in the Canadian prairies. <i>Natural Hazards</i> , 2018 , 94, 537-560	5.6	7
70	National water, food, and trade modeling framework: The case of Egypt. <i>Science of the Total Environment</i> , 2018 , 639, 485-496	10.2	35
69	HESS Opinions: Incubating deep-learning-powered hydrologic science advances as a community. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 5639-5656	5.5	95
68	The Impact of Climate Change on the Water Balance of Oil Sands Reclamation Covers and Natural Soil Profiles. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1731-1752	3.7	9

67	Meta-analysis based predictions of flood insurance and flood vulnerability patterns in Calgary, Alberta. <i>Applied Geography</i> , 2018 , 96, 41-50	4.4	6
66	The ecohydrological vulnerability of a large inland delta to changing regional streamflows and upstream irrigation expansion. <i>Ecohydrology</i> , 2017 , 10, e1824	2.5	14
65	Topography- and nightlight-based national flood risk assessment in Canada. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 2219-2232	5.5	16
64	Integrating Supply Uncertainties from Stochastic Modeling into Integrated Water Resource Management: Case Study of the Saskatchewan River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 05015006	2.8	24
63	A risk-based framework for water resource management under changing water availability, policy options, and irrigation expansion. <i>Advances in Water Resources</i> , 2016 , 94, 291-306	4.7	20
62	Time scale effect and uncertainty in reconstruction of paleo-hydrology. <i>Hydrological Processes</i> , 2016 , 30, 1985-1999	3.3	11
61	Data-driven modelling approaches for socio-hydrology: opportunities and challenges within the Panta Rhei Science Plan. <i>Hydrological Sciences Journal</i> , 2016 , 1-17	3.5	37
60	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. <i>Hydrological Sciences Journal</i> , 2016 , 61, 2803-2817	3.5	40
59	Correlation and causation in tree-ring-based reconstruction of paleohydrology in cold semiarid regions. <i>Water Resources Research</i> , 2016 , 52, 7053-7069	5.4	9
58	Hybrid modelling approach to prairie hydrology: fusing data-driven and process-based hydrological models. <i>Hydrological Sciences Journal</i> , 2015 , 60, 1473-1489	3.5	28
57	Quantification of the climate change-induced variations in IntensityDurationFrequency curves in the Canadian Prairies. <i>Journal of Hydrology</i> , 2015 , 527, 990-1005	6	45
56	Toward understanding nonstationarity in climate and hydrology through tree ring proxy records. <i>Water Resources Research</i> , 2015 , 51, 1813-1830	5.4	51
55	Managing water in complex systems: An integrated water resources model for Saskatchewan, Canada. <i>Environmental Modelling and Software</i> , 2014 , 58, 12-26	5.2	62
54	Quantile-Based Downscaling of Precipitation Using Genetic Programming: Application to IDF Curves in Saskatoon. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 943-955	1.8	44
53	The impact of soil moisture availability on forest growth indices for variably layered coarse-textured soils. <i>Ecohydrology</i> , 2013 , 6, 214-227	2.5	20
52	A stochastic reconstruction framework for analysis of water resource system vulnerability to climate-induced changes in river flow regime. <i>Water Resources Research</i> , 2013 , 49, 291-305	5.4	63
51	Effects of Variably Layered Coarse Textured Soils on Plant Available Water and Forest Productivity. <i>Procedia Environmental Sciences</i> , 2013 , 19, 148-157		10
50	Data Driven Techniques and Wavelet Analysis for the Modeling and Analysis of Actual Evapotranspiration 2013 ,		1

49	Impacts of climate change on soil moisture and evapotranspiration in reconstructed watersheds in northern Alberta, Canada. <i>Hydrological Processes</i> , 2012 , 26, 1321-1331	3.3	11
48	Application of copula modelling to the performance assessment of reconstructed watersheds. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012 , 26, 189-205	3.5	37
47	Utilizing North American Regional Reanalysis for modeling soil moisture and evapotranspiration in reconstructed watersheds. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 31-41	3	7
46	System dynamics modeling of infiltration and drainage in layered coarse soil. <i>Canadian Journal of Soil Science</i> , 2011 , 91, 185-197	1.4	16
45	Infiltration and drainage processes in multi-layered coarse soils. <i>Canadian Journal of Soil Science</i> , 2011 , 91, 169-183	1.4	55
44	Water availability and forest growth in coarse-textured soils. <i>Canadian Journal of Soil Science</i> , 2011 , 91, 199-210	1.4	32
43	The Sask formula to estimate glomerular filtration rate in renal transplant patients. <i>Nephron Clinical Practice</i> , 2011 , 117, c135-50		1
42	Experimental investigation of the predictive capabilities of data driven modeling techniques in hydrology - Part 2: Application. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 1943-1961	5.5	105
41	Experimental investigation of the predictive capabilities of data driven modeling techniques in hydrology - Part 1: Concepts and methodology. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 1931-1941	5.5	138
40	Comparison of three data-driven techniques in modelling the evapotranspiration process. <i>Journal of Hydroinformatics</i> , 2010 , 12, 365-379	2.6	29
39	Comparative probabilistic assessment of the hydrological performance of reconstructed and natural watersheds. <i>Hydrological Processes</i> , 2010 , 24, n/a-n/a	3.3	1
38	Prediction of hourly actual evapotranspiration using neural networks, genetic programming, and statistical models. <i>Hydrological Processes</i> , 2010 , 24, 3413-3425	3.3	49
37	A generic system dynamics model for simulating and evaluating the hydrological performance of reconstructed watersheds. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 865-881	5.5	31
36	Investigating the capabilities of evolutionary data-driven techniques using the challenging estimation of soil moisture content. <i>Journal of Hydroinformatics</i> , 2009 , 11, 237-251	2.6	26
35	Toward Bridging the Gap Between Data-Driven and Mechanistic Models: Cluster-Based Neural Networks for Hydrologic Processes. <i>Water Science and Technology Library</i> , 2009 , 389-403	0.3	3
34	On the relevance of using artificial neural networks for estimating soil moisture content. <i>Journal of Hydrology</i> , 2008 , 362, 1-18	6	83
33	Toward improving the reliability of hydrologic prediction: Model structure uncertainty and its quantification using ensemble-based genetic programming framework. <i>Water Resources Research</i> , 2008 , 44,	5.4	32
32	Simulation of the hydrological processes on reconstructed watersheds using system dynamics. <i>Hydrological Sciences Journal</i> , 2007 , 52, 538-562	3.5	33

31	Probabilistic Approach for Design and Hydrologic Performance Assessment of Reconstructed Watersheds. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007 , 133, 1110-1118	3.4	25
30	Estimating Saturated Hydraulic Conductivity Using Genetic Programming. <i>Soil Science Society of America Journal</i> , 2007 , 71, 1676-1684	2.5	43
29	Cluster-Based Hydrologic Prediction Using Genetic Algorithm-Trained Neural Networks. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007 , 12, 52-62	1.8	38
28	Modelling the dynamics of the evapotranspiration process using genetic programming. <i>Hydrological Sciences Journal</i> , 2007 , 52, 563-578	3.5	102
27	Multi-criterion decision making approach to assess the performance of reconstructed watersheds 2007 , 257-269		
26	Deterministic and probabilistic approaches to the development of pH total maximum daily loads: a comparative analysis. <i>Journal of Hydroinformatics</i> , 2007 , 9, 203-213	2.6	
25	Multicriterion decision analysis approach to assess the utility of watershed modeling for management decisions. <i>Water Resources Research</i> , 2006 , 42,	5.4	13
24	Spiking modular neural networks: A neural network modeling approach for hydrological processes. <i>Water Resources Research</i> , 2006 , 42,	5.4	24
23	Assessment of pathogen pollution in watersheds using object-oriented modeling and probabilistic analysis. <i>Journal of Hydroinformatics</i> , 2006 , 8, 51-63	2.6	4
22	Estimating Saturated Hydraulic Conductivity In Spatially Variable Fields Using Neural Network Ensembles. <i>Soil Science Society of America Journal</i> , 2006 , 70, 1851-1859	2.5	38
21	Long-Term Performance of a Reclamation Cover: The Evolution of Hydraulic Properties and Hydrologic Response 2006 , 813		4
20	Object-oriented modeling approach to surface water quality management. <i>Environmental Modelling and Software</i> , 2006 , 21, 689-698	5.2	45
19	System dynamics approach to assess the sustainability of reclamation of disturbed watersheds. <i>Canadian Journal of Civil Engineering</i> , 2005 , 32, 144-158	1.3	63
18	Total maximum daily load (TMDL) approach to surface water quality management: concepts, issues, and applications. <i>Canadian Journal of Civil Engineering</i> , 2005 , 32, 442-448	1.3	21
17	Framework for Assessment of Relative Pollutant Loads in Streams with Limited Data. <i>Water International</i> , 2005 , 30, 477-486	2.4	3
16	Fuzzy set based error measure for hydrologic model evaluation. <i>Journal of Hydroinformatics</i> , 2005 , 7, 199-208	2.6	13
15	Methodology for pH Total Maximum Daily Loads: Application to Beech Creek Watershed. <i>Journal of Environmental Engineering, ASCE</i> , 2004 , 130, 167-174	2	3
14	A new error statistic for performance evaluation of models in hydrology. <i>Developments in Water Science</i> , 2002 , 47, 787-794		

13	Estimation of missing streamflow data using principles of chaos theory. <i>Journal of Hydrology</i> , 2002 , 255, 123-133	6	122
12	Noise reduction in chaotic hydrologic time series: facts and doubts. <i>Journal of Hydrology</i> , 2002 , 256, 147-165	65	59
11	Noise Reduction Approach in Chaotic Hydrologic Time Series Revisited. <i>Canadian Water Resources Journal</i> , 2001 , 26, 537-550	1.7	4
10	Analysis of cross-correlated chaotic streamflows. <i>Hydrological Sciences Journal</i> , 2001 , 46, 781-793	3.5	23
9	Performance Evaluation of Artificial Neural Networks for Runoff Prediction. <i>Journal of Hydrologic Engineering - ASCE</i> , 2000 , 5, 424-427	1.8	66
8	Group-based estimation of missing hydrological data: I. Approach and general methodology. <i>Hydrological Sciences Journal</i> , 2000 , 45, 849-866	3.5	40
7	Group-based estimation of missing hydrological data: II. Application to streamflows. <i>Hydrological Sciences Journal</i> , 2000 , 45, 867-880	3.5	12
6	Streamflow Data Infilling Techniques Based on Concepts of Groups and Neural Networks. <i>Water Science and Technology Library</i> , 2000 , 235-258	0.3	7
5	The Use of Object-Oriented Modeling for Water Resources Planning in Egypt. <i>Water Resources Management</i> , 1997 , 11, 243-261	3.7	53
4	Wavelet networks: an alternative to classical neural networks		6
3	Experimental investigation of the predictive capabilities of data driven modeling techniques in hydrology [Part 1: Concepts and methodology		3
2	Experimental investigation of the predictive capabilities of data driven modeling techniques in hydrology [Part 2: Application		7
1	A generic system dynamics model for simulating and evaluating the hydrological performance of reconstructed watersheds		1