Brian Morse

List of Publications by Year
in descending order

		623734	580821
38 papers	652 citations	14 h-index	25 g-index
39 all docs	39 docs citations	39 times ranked	392 citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical solutions of long nonlinear internal waves: Part I. Natural Hazards, 2011, 57, 597-607.	3.4	73
2	Advances in river ice hydrology 1999-2003. Hydrological Processes, 2005, 19, 247-263.	2.6	67
3	Sediment transport in ice-affected rivers. Journal of Hydrology, 2011, 409, 561-577.	5.4	66
4	A field study of suspended frazil ice particles. Cold Regions Science and Technology, 2009, 55, 86-102.	3.5	42
5	A global river ice classification model. Journal of Hydrology, 2013, 507, 134-148.	5.4	37
6	Athabasca River ice jam formation and release events in 2006 and 2007. Cold Regions Science and Technology, 2009, 55, 249-261.	3.5	36
7	Multiple frazil ice blockages at a water intake in the St. Lawrence River. Cold Regions Science and Technology, 2008, 53, 131-149.	3.5	34
8	Characteristics of ice in the St. Lawrence River. Canadian Journal of Civil Engineering, 2003, 30, 766-774.	1.3	23
9	Ice processes in a steep river basin. Cold Regions Science and Technology, 2011, 67, 146-156.	3.5	22
10	Inner structure of anchor ice and ice dams in steep channels. Cold Regions Science and Technology, 2014, 106-107, 194-206.	3.5	20
11	Quantifying suspended frazil ice using multiâ€frequency underwater acoustic devices. River Research and Applications, 2011, 27, 1106-1117.	1.7	18
12	River ice cover flexure by an incoming wave. Cold Regions Science and Technology, 2009, 55, 230-237.	3.5	17
13	Impact of Climate Change on the Frequency of Dynamic Breakup Events and on the Risk of Ice-Jam Floods in Quebec, Canada. Water (Switzerland), 2020, 12, 2891.	2.7	17
14	Quantifying steep channel freezeup processes. Cold Regions Science and Technology, 2013, 94, 21-36.	3.5	16
15	Conservation laws and invariants of motion for nonlinear internal waves: part II. Natural Hazards, 2011, 57, 609-616.	3.4	15
16	Impacts of precipitation on the cryologic regime of stream channels. Hydrological Processes, 2012, 26, 2653-2662.	2.6	13
17	Cryologic continuum of a steep watershed. Hydrological Processes, 2014, 28, 809-822.	2.6	13
18	Hydrodynamics of Mesotidal Estuary in Winter. Journal of Cold Regions Engineering - ASCE, 2006, 20, 95-115.	1.1	12

#	Article	IF	Citations
19	Modeling frazil ice growth in the St. Lawrence River. Canadian Journal of Civil Engineering, 2015, 42, 592-608.	1.3	11
20	Gauging Rivers during All Seasons Using the Q2D Velocity Index Method. Journal of Hydraulic Engineering, 2010, 136, 195-203.	1.5	10
21	Ice control structures using piers, booms and nets. Cold Regions Science and Technology, 2006, 45, 59-75.	3.5	9
22	The hydro-cryologic continuum of a steep watershed at freezeup. Journal of Hydrology, 2014, 508, 397-409.	5.4	9
23	Assessment of tidal stream energy resources in a hypertidal estuary with highly irregular bathymetry using 3D numerical modelling. Journal of Ocean Engineering and Marine Energy, 2019, 5, 267-281.	1.7	9
24	Mapping environmental conditions in the St. Lawrence River onto ice parameters using artificial neural networks to predict ice jams. Canadian Journal of Civil Engineering, 2003, 30, 758-765.	1.3	8
25	Water wave transients in an ice-covered channel. Canadian Journal of Civil Engineering, 2011, 38, 404-414.	1.3	8
26	The Winter Environmental Continuum of Two Watersheds. Water (Switzerland), 2017, 9, 337.	2.7	8
27	Dynamics of ice forces on booms. Cold Regions Science and Technology, 2001, 33, 29-43.	3.5	5
28	Steep channel freezeup processes: understanding complexity with statistical and physical models. Canadian Journal of Civil Engineering, 2015, 42, 622-633.	1.3	5
29	Quantifying frazil production, transport and deposition in a gravel-bed river: Case study of the St. Raymond hanging dam. Cold Regions Science and Technology, 2017, 141, 109-121.	3.5	5
30	Theoretical Development of Forces on Cylindrical Ice Booms. Journal of Cold Regions Engineering - ASCE, 2001, 15, 154-169.	1.1	4
31	Continuous Monitoring of an Ice Sheet in a Reservoir Upstream of Beaumont Dam, Canada. Journal of Surveying Engineering, - ASCE, 2012, 138, 37-45.	1.7	4
32	Calibration of a 3D hydrodynamic model for a hypertidal estuary with complex irregular bathymetry using adaptive parametrization of bottom roughness and eddy viscosity. Estuarine, Coastal and Shelf Science, 2022, 265, 107655.	2.1	4
33	Agencement de prises d'eau en région nordique. Canadian Journal of Civil Engineering, 2003, 30, 69-76.	1.3	2
34	Numerical characteristics of a coupled river ice and hydrodynamic model. Canadian Journal of Civil Engineering, 2011, 38, 393-403.	1.3	2
35	Winter impacts on cryo-hydrodynamics of an Arctic hypertidal estuary: implications on tidal-stream energy. Journal of Ocean Engineering and Marine Energy, 2021, 7, 459-479.	1.7	2
36	Estuary Ice Cover. Encyclopedia of Earth Sciences Series, 2011, , 281-287.	0.1	2

#	ARTICLE	IF	CITATIONS
37	Exploring frequency analysis alternatives on instantaneous peak flow, in the context of flood plain delineation in Southern QuÃ©bec, Canada.. Canadian Journal of Civil Engineering, 0, , .	1.3	1
38	Reply to discussion by S. Beltaos on â€œSmoothed particle hydrodynamics hybrid model of ice-jam formation and releaseâ€Appears in Canadian Journal of Civil Engineering, 36(7): 1133â€"1143.. Canadian Journal of Civil Engineering, 2010, 37, 659-660.	1.3	0