

Brian Morse

List of Publications by Year in descending order

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38
papers

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623734

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docs citations

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392
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration of a 3D hydrodynamic model for a hypertidal estuary with complex irregular bathymetry using adaptive parametrization of bottom roughness and eddy viscosity. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 265, 107655.	2.1	4
2	Winter impacts on cryo-hydrodynamics of an Arctic hypertidal estuary: implications on tidal-stream energy. <i>Journal of Ocean Engineering and Marine Energy</i> , 2021, 7, 459-479.	1.7	2
3	Impact of Climate Change on the Frequency of Dynamic Breakup Events and on the Risk of Ice-Jam Floods in Quebec, Canada. <i>Water (Switzerland)</i> , 2020, 12, 2891.	2.7	17
4	Assessment of tidal stream energy resources in a hypertidal estuary with highly irregular bathymetry using 3D numerical modelling. <i>Journal of Ocean Engineering and Marine Energy</i> , 2019, 5, 267-281.	1.7	9
5	Quantifying frazil production, transport and deposition in a gravel-bed river: Case study of the St. Raymond hanging dam. <i>Cold Regions Science and Technology</i> , 2017, 141, 109-121.	3.5	5
6	The Winter Environmental Continuum of Two Watersheds. <i>Water (Switzerland)</i> , 2017, 9, 337.	2.7	8
7	Steep channel freezeup processes: understanding complexity with statistical and physical models. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 622-633.	1.3	5
8	Modeling frazil ice growth in the St. Lawrence River. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 592-608.	1.3	11
9	Inner structure of anchor ice and ice dams in steep channels. <i>Cold Regions Science and Technology</i> , 2014, 106-107, 194-206.	3.5	20
10	The hydro-cryologic continuum of a steep watershed at freezeup. <i>Journal of Hydrology</i> , 2014, 508, 397-409.	5.4	9
11	Cryologic continuum of a steep watershed. <i>Hydrological Processes</i> , 2014, 28, 809-822.	2.6	13
12	A global river ice classification model. <i>Journal of Hydrology</i> , 2013, 507, 134-148.	5.4	37
13	Quantifying steep channel freezeup processes. <i>Cold Regions Science and Technology</i> , 2013, 94, 21-36.	3.5	16
14	Continuous Monitoring of an Ice Sheet in a Reservoir Upstream of Beaumont Dam, Canada. <i>Journal of Surveying Engineering, - ASCE</i> , 2012, 138, 37-45.	1.7	4
15	Impacts of precipitation on the cryologic regime of stream channels. <i>Hydrological Processes</i> , 2012, 26, 2653-2662.	2.6	13
16	Numerical characteristics of a coupled river ice and hydrodynamic model. <i>Canadian Journal of Civil Engineering</i> , 2011, 38, 393-403.	1.3	2
17	Ice processes in a steep river basin. <i>Cold Regions Science and Technology</i> , 2011, 67, 146-156.	3.5	22
18	Sediment transport in ice-affected rivers. <i>Journal of Hydrology</i> , 2011, 409, 561-577.	5.4	66

#	ARTICLE	IF	CITATIONS
19	Conservation laws and invariants of motion for nonlinear internal waves: part II. <i>Natural Hazards</i> , 2011, 57, 609-616.	3.4	15
20	Analytical solutions of long nonlinear internal waves: Part I. <i>Natural Hazards</i> , 2011, 57, 597-607.	3.4	73
21	Quantifying suspended frazil ice using multi-frequency underwater acoustic devices. <i>River Research and Applications</i> , 2011, 27, 1106-1117.	1.7	18
22	Water wave transients in an ice-covered channel. <i>Canadian Journal of Civil Engineering</i> , 2011, 38, 404-414.	1.3	8
23	Estuary Ice Cover. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 281-287.	0.1	2
24	Gauging Rivers during All Seasons Using the Q2D Velocity Index Method. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 195-203.	1.5	10
25	Reply to discussion by S. Beltaos on "Smoothed particle hydrodynamics hybrid model of ice-jam formation and release" Appears in <i>Canadian Journal of Civil Engineering</i> , 36(7): 1133-1143.. <i>Canadian Journal of Civil Engineering</i> , 2010, 37, 659-660.	1.3	0
26	Athabasca River ice jam formation and release events in 2006 and 2007. <i>Cold Regions Science and Technology</i> , 2009, 55, 249-261.	3.5	36
27	River ice cover flexure by an incoming wave. <i>Cold Regions Science and Technology</i> , 2009, 55, 230-237.	3.5	17
28	A field study of suspended frazil ice particles. <i>Cold Regions Science and Technology</i> , 2009, 55, 86-102.	3.5	42
29	Multiple frazil ice blockages at a water intake in the St. Lawrence River. <i>Cold Regions Science and Technology</i> , 2008, 53, 131-149.	3.5	34
30	Ice control structures using piers, booms and nets. <i>Cold Regions Science and Technology</i> , 2006, 45, 59-75.	3.5	9
31	Hydrodynamics of Mesotidal Estuary in Winter. <i>Journal of Cold Regions Engineering - ASCE</i> , 2006, 20, 95-115.	1.1	12
32	Advances in river ice hydrology 1999-2003. <i>Hydrological Processes</i> , 2005, 19, 247-263.	2.6	67
33	Mapping environmental conditions in the St. Lawrence River onto ice parameters using artificial neural networks to predict ice jams. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 758-765.	1.3	8
34	Characteristics of ice in the St. Lawrence River. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 766-774.	1.3	23
35	Agencement de prises d'eau en r�gion nordique. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 69-76.	1.3	2
36	Dynamics of ice forces on booms. <i>Cold Regions Science and Technology</i> , 2001, 33, 29-43.	3.5	5

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37	Theoretical Development of Forces on Cylindrical Ice Booms. Journal of Cold Regions Engineering - ASCE, 2001, 15, 154-169.	1.1	4
38	Exploring frequency analysis alternatives on instantaneous peak flow, in the context of flood plain delineation in Southern Québec, Canada.. Canadian Journal of Civil Engineering, 0, , .	1.3	1