

# Spyros Beltaos

## List of Publications by Year in descending order

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94  
papers

2,933  
citations

172207

29  
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189595

50  
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94  
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94  
docs citations

94  
times ranked

1565  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatic control of river-ice hydrology: a review. <i>Hydrological Processes</i> , 2002, 16, 805-822.	1.1	166
2	PLANE TURBULENT IMPINGING JETS. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1973, 11, 29-59.	0.7	160
3	River-ice hydrology in a shrinking cryosphere. <i>Hydrological Processes</i> , 2009, 23, 122-144.	1.1	158
4	Effects of Changes in Arctic Lake and River Ice. <i>Ambio</i> , 2011, 40, 63-74.	2.8	123
5	Past and Future Changes in Arctic Lake and River Ice. <i>Ambio</i> , 2011, 40, 53-62.	2.8	105
6	Climate impacts on extreme ice-jam events in Canadian rivers. <i>Hydrological Sciences Journal</i> , 2001, 46, 157-181.	1.2	99
7	OBLIQUE IMPINGEMENT OF CIRCULAR TURBULENT JETS. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1976, 14, 17-36.	0.7	96
8	Progress in the study and management of river ice jams. <i>Cold Regions Science and Technology</i> , 2008, 51, 2-19.	1.6	93
9	Climate Change, Flow Regulation and Land-Use Effects on the Hydrology of the Peace-Athabasca-Slave System; Findings from the Northern Rivers Ecosystem Initiative. <i>Environmental Monitoring and Assessment</i> , 2006, 113, 167-197.	1.3	91
10	IMPINGEMENT OF AXISYMMETRIC DEVELOPING JETS. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1977, 15, 311-326.	0.7	89
11	Ice regime of the lower Peace River and ice-jam flooding of the Peace-Athabasca Delta. <i>Hydrological Processes</i> , 2006, 20, 4009-4029.	1.1	83
12	Effects of climate on mid-winter ice jams. <i>Hydrological Processes</i> , 2002, 16, 789-804.	1.1	77
13	Threshold between mechanical and thermal breakup of river ice cover. <i>Cold Regions Science and Technology</i> , 2003, 37, 1-13.	1.6	73
14	Climatic effects on ice-jam flooding of the Peace-Athabasca Delta. <i>Hydrological Processes</i> , 2006, 20, 4031-4050.	1.1	71
15	Climatic change and river ice breakup. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 145-155.	0.7	69
16	Comparing the impacts of regulation and climate on ice-jam flooding of the Peace-Athabasca Delta. <i>Cold Regions Science and Technology</i> , 2014, 108, 49-58.	1.6	49
17	Numerical modelling of ice-jam flooding on the Peace-Athabasca delta. <i>Hydrological Processes</i> , 2003, 17, 3685-3702.	1.1	45
18	Collapse of floating ice covers under vertical loads: test data vs. theory. <i>Cold Regions Science and Technology</i> , 2002, 34, 191-207.	1.6	43

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19	Spatial and temporal patterns of break-up and ice-jam flooding in the Mackenzie Delta, NWT. <i>Hydrological Processes</i> , 2009, 23, 2654-2670.	1.1	43
20	Advances in river ice hydrology. <i>Hydrological Processes</i> , 2000, 14, 1613-1625.	1.1	42
21	Hydraulic Roughness of Breakup Ice Jams. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 650-656.	0.7	42
22	Comparative testing of numerical models of river ice jams. <i>Canadian Journal of Civil Engineering</i> , 2011, 38, 669-678.	0.7	40
23	Arctic Freshwater Ice and Its Climatic Role. <i>Ambio</i> , 2011, 40, 46-52.	2.8	40
24	Ice jam modelling and field data collection for flood forecasting in the Saint John River, Canada. <i>Hydrological Processes</i> , 2012, 26, 2535-2545.	1.1	40
25	Restoring Ice-jam Floodwater to a Drying Delta Ecosystem. <i>Water International</i> , 2002, 27, 58-69.	0.4	35
26	River ice breakup processes: recent advances and future directions. <i>Canadian Journal of Civil Engineering</i> , 2007, 34, 703-716.	0.7	35
27	Field studies of ice breakup and jamming in lower Peace River, Canada. <i>Cold Regions Science and Technology</i> , 2009, 56, 102-114.	1.6	33
28	Field measurements of ice-jam-release surges. <i>Canadian Journal of Civil Engineering</i> , 2005, 32, 699-711.	0.7	31
29	The role of waves in ice-jam flooding of the Peace-Athabasca Delta. <i>Hydrological Processes</i> , 2007, 21, 2548-2559.	1.1	31
30	Frequency of ice-jam flooding of Peace-Athabasca Delta. <i>Canadian Journal of Civil Engineering</i> , 2018, 45, 71-75.	0.7	31
31	Midwinter breakup and jamming on the upper Saint John River: a case study. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 77-88.	0.7	28
32	Assessment of annual high-water events for the Mackenzie River basin, Canada. <i>Hydrological Processes</i> , 2008, 22, 3864-3880.	1.1	28
33	Hydrodynamic characteristics and effects of river waves caused by ice jam releases. <i>Cold Regions Science and Technology</i> , 2013, 85, 42-55.	1.6	27
34	Hydrotechnical advances in Canadian river ice science and engineering during the past 35 years. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 583-591.	0.7	27
35	Determining ice-jam-surge characteristics from measured wave forms. <i>Canadian Journal of Civil Engineering</i> , 2005, 32, 687-698.	0.7	25
36	Climate impacts on the ice regime of an Atlantic river. <i>Hydrology Research</i> , 2004, 35, 81-99.	1.1	23

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37	Lessons learned from past ice-jam floods concerning the challenges of flood mapping. <i>International Journal of River Basin Management</i> , 2018, 16, 457-468.	1.5	23
38	Downstream Transition of River Ice Jams. <i>Journal of Hydraulic Engineering</i> , 1986, 112, 91-110.	0.7	22
39	Ice-jam model testing: Matapedia River case studies, 1994 and 1995. <i>Cold Regions Science and Technology</i> , 2010, 60, 29-39.	1.6	22
40	The 2014 ice-jam flood of the Peace-Athabasca Delta: Insights from numerical modelling. <i>Cold Regions Science and Technology</i> , 2018, 155, 367-380.	1.6	22
41	Developing winter flow rating relationships using slope-area hydraulics. <i>River Research and Applications</i> , 2011, 27, 1076-1089.	0.7	21
42	Remote data collection on ice breakup dynamics: Saint John River case study. <i>Cold Regions Science and Technology</i> , 2011, 67, 135-145.	1.6	20
43	Measurements and analysis of ice breakup and jamming characteristics in the Mackenzie Delta, Canada. <i>Cold Regions Science and Technology</i> , 2012, 82, 110-123.	1.6	20
44	Hydroclimatic aspects of ice jam flooding near Perth-Andover, New Brunswick. <i>Canadian Journal of Civil Engineering</i> , 2015, 42, 686-695.	0.7	20
45	Distributed function analysis of ice jam flood frequency. <i>Cold Regions Science and Technology</i> , 2012, 71, 1-10.	1.6	18
46	1991 ice jamming along the Saint John River: a case study. <i>Canadian Journal of Civil Engineering</i> , 1996, 23, 381-394.	0.7	17
47	Flow through the voids of breakup ice jams. <i>Canadian Journal of Civil Engineering</i> , 1999, 26, 177-185.	0.7	17
48	Hydraulic effects of ice breakup on bridges. <i>Canadian Journal of Civil Engineering</i> , 2007, 34, 539-548.	0.7	16
49	Estimating river discharge during ice breakup from near-simultaneous satellite imagery. <i>Cold Regions Science and Technology</i> , 2014, 98, 35-46.	1.6	16
50	River Ice. , 2008, , 281-305.		16
51	Ice in reservoirs and regulated rivers. <i>International Journal of River Basin Management</i> , 2022, 20, 1-16.	1.5	16
52	A Canadian River Ice Database from the National Hydrometric Program Archives. <i>Earth System Science Data</i> , 2020, 12, 1835-1860.	3.7	16
53	Evaluation Of Transverse Mixing Coefficients From Slug Tests. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1975, 13, 351-360.	0.7	15
54	Ice jam mitigation. <i>Canadian Journal of Civil Engineering</i> , 1990, 17, 675-685.	0.7	15

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55	Modelling of three-dimensional flow velocities in a deep hole in the East Channel of the Mackenzie Delta, Northwest Territories. Canadian Journal of Civil Engineering, 2007, 34, 1312-1323.	0.7	15
56	Hydro-climatic impacts on the ice cover of the lower Peace River. Hydrological Processes, 2008, 22, 3252-3263.	1.1	15
57	Mackenzie Delta flow during spring breakup: uncertainties and potential improvements. Canadian Journal of Civil Engineering, 2012, 39, 579-588.	0.7	15
58	Wave-generated fractures in river ice covers. Cold Regions Science and Technology, 2004, 40, 179-191.	1.6	13
59	Transport of suspended sediment during the breakup of the ice cover, Saint John River, Canada. Cold Regions Science and Technology, 2016, 129, 1-13.	1.6	13
60	Characteristics of suspended sediment and metal transport during ice breakup, Saint John River, Canada. Cold Regions Science and Technology, 2016, 123, 164-176.	1.6	13
61	Climate change impacts on Peace River ice thickness and implications to ice-jam flooding of Peace-Athabasca Delta, Canada. Cold Regions Science and Technology, 2021, 186, 103279.	1.6	13
62	Hydrodynamic and climatic drivers of ice breakup in the lower Mackenzie River. Cold Regions Science and Technology, 2013, 95, 39-52.	1.6	12
63	Erosion potential of dynamic ice breakup in Lower Athabasca River. Part I: Field measurements and initial quantification. Cold Regions Science and Technology, 2018, 149, 16-28.	1.6	12
64	Formation of Breakup Ice Jams at Bridges. Journal of Hydraulic Engineering, 2006, 132, 1229-1236.	0.7	11
65	Morphology and genesis of deep scour holes in the Mackenzie Delta. Canadian Journal of Civil Engineering, 2011, 38, 638-649.	0.7	11
66	Effects of River-Ice Breakup on Sediment Transport and Implications to Stream Environments: A Review. Water (Switzerland), 2021, 13, 2541.	1.2	11
67	Climate Impacts on Ice-jam Floods in a Regulated Northern River. , 2008, , 345-361.		11
68	Extreme sediment pulses during ice breakup, Saint John River, Canada. Cold Regions Science and Technology, 2016, 128, 38-46.	1.6	10
69	Water temperature decay under breakup ice jams. Cold Regions Science and Technology, 2006, 45, 123-136.	1.6	9
70	River flow abstraction due to hydraulic storage at freezeup. Canadian Journal of Civil Engineering, 2009, 36, 519-523.	0.7	9
71	Hydrodynamics of storage release during river ice breakup. Cold Regions Science and Technology, 2017, 139, 36-50.	1.6	9
72	Internal strength properties of river ice jams. Cold Regions Science and Technology, 2010, 62, 83-91.	1.6	8

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73	Canadian Geophysical Union Hydrology Section Committee on River Ice Processes and the Environment: Brief History. <i>Journal of Cold Regions Engineering - ASCE</i> , 2012, 26, 71-78.	0.5	8
74	Assessing the Frequency of Floods in Ice-Covered Rivers under a Changing Climate: Review of Methodology. <i>Geosciences (Switzerland)</i> , 2021, 11, 514.	1.0	8
75	Hydrodynamic properties of ice-jam release waves in the Mackenzie Delta, Canada. <i>Cold Regions Science and Technology</i> , 2014, 103, 91-106.	1.6	7
76	Ice-jam flood regime of the Peace-Athabasca Delta: Update in light of the 2014 event. <i>Cold Regions Science and Technology</i> , 2019, 165, 102791.	1.6	7
77	Reply to discussions by Timoney et al. (2018) and Hall et al. (2018) on "Frequency of ice-jam flooding of Peace-Athabasca Delta": <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 243-248.	0.7	7
78	Longitudinal Dispersion in Ice-Covered Rivers. <i>Journal of Cold Regions Engineering - ASCE</i> , 1998, 12, 184-201.	0.5	6
79	Modelling creep deformation in floating ice. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 28-41.	0.7	6
80	Preface: Canadian Geophysical Union Hydrology Section special issue. <i>Hydrological Processes</i> , 2005, 19, 1-1.	1.1	6
81	Numerical prediction of ice-jam profiles in lower Athabasca River. <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 722-731.	0.7	6
82	Naturalized flow regime of the regulated Peace River, Canada, during the spring breakup of the ice cover. <i>Cold Regions Science and Technology</i> , 2020, 172, 103005.	1.6	6
83	Naturalizing the freezeup regimes of regulated rivers and exploring implications to spring ice-jam flooding. <i>Hydrological Processes</i> , 2021, 35, e14321.	1.1	6
84	Ice Jam Mitigation Using Setback Dykes: Coldwater River at Merritt, B.C.. <i>Journal of Cold Regions Engineering - ASCE</i> , 1996, 10, 190-206.	0.5	5
85	3D modelling of ice-covered flows in the vicinity of a deep hole in the East Channel of the Mackenzie Delta, N.W.T.. <i>Canadian Journal of Civil Engineering</i> , 2009, 36, 791-800.	0.7	5
86	Erosion potential of dynamic ice breakup in Lower Athabasca River. Part II: Field data analysis and interpretation. <i>Cold Regions Science and Technology</i> , 2018, 148, 77-87.	1.6	5
87	Commentary on "Past variation in Lower Peace River ice-jam flood frequency" by Wolfe et al. (2020). <i>Environmental Reviews</i> , 2020, 28, 560-566.	2.1	5
88	Flow Structure and Channel Stability at the Site of a Deep Scour Hole, Mackenzie Delta, Canada. <i>Arctic</i> , 2012, 65, .	0.2	3
89	Hindsight on River Ice Jam Stability. <i>Journal of Cold Regions Engineering - ASCE</i> , 1996, 10, 122-133.	0.5	2
90	Canadian Geophysical Union - Hydrology Section. <i>Hydrological Processes</i> , 2006, 20, 3587-3588.	1.1	1

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91	Discussion of "Smoothed particle hydrodynamics hybrid model of ice-jam formation and release" Appears in Canadian Journal of Civil Engineering, <b>36</b>(7): 1133-1143.. Canadian Journal of Civil Engineering, 2010, 37, 657-658.	0.7	1
92	Discussion of "Dispersion in Varying-Geometry Rivers with Application to Methanol Releases" by Mirmosadegh Jamali, Gregory A. Lawrence, and Kevin Maloney. Journal of Hydraulic Engineering, 2007, 133, 1092-1093.	0.7	0
93	Comment on: "Effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment", by Seyed Mohammad Ghaneizad, Joseph F. Atkinson, and Sean J. Bennett, Environ Fluid Mech: DOI 10.1007/s10652-014-9354-3. Environmental Fluid Mechanics, 2015, 15, 899-900.	0.7	0
94	Comment on "Estimation of composite hydraulic resistance in ice-covered alluvial streams" by Ghareh Aghaji Zare et al.. Water Resources Research, 2016, 52, 9661-9664.	1.7	0