

Spyros Beltaos

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

2,933
citations

172207

29
h-index

189595

50
g-index

94
all docs

94
docs citations

94
times ranked

1565
citing authors

#	ARTICLE	IF	CITATIONS
1	Ice in reservoirs and regulated rivers. <i>International Journal of River Basin Management</i> , 2022, 20, 1-16.	1.5	16
2	Climate change impacts on Peace River ice thickness and implications to ice-jam flooding of Peace-Athabasca Delta, Canada. <i>Cold Regions Science and Technology</i> , 2021, 186, 103279.	1.6	13
3	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
4	Effects of River-Ice Breakup on Sediment Transport and Implications to Stream Environments: A Review. <i>Water (Switzerland)</i> , 2021, 13, 2541.	1.2	11
5	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
6	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
7	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
8	A Canadian River Ice Database from the National Hydrometric Program Archives. <i>Earth System Science Data</i> , 2020, 12, 1835-1860.	3.7	16
9	Numerical prediction of ice-jam profiles in lower Athabasca River. <i>Canadian Journal of Civil Engineering</i> , 2019, 46, 722-731.	0.7	6
10	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
11	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
12	Erosion potential of dynamic ice breakup in Lower Athabasca River. Part I: Field measurements and initial quantification. <i>Cold Regions Science and Technology</i> , 2018, 149, 16-28.	1.6	12
13	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
14	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
15	Frequency of ice-jam flooding of Peace-Athabasca Delta. <i>Canadian Journal of Civil Engineering</i> , 2018, 45, 71-75.	0.7	31
16	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
17	Hydrodynamics of storage release during river ice breakup. <i>Cold Regions Science and Technology</i> , 2017, 139, 36-50.	1.6	9
18	Comment on "Estimation of composite hydraulic resistance in ice-covered alluvial streams" by Ghareh Aghaji Zare et al.. <i>Water Resources Research</i> , 2016, 52, 9661-9664.	1.7	0

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19	Extreme sediment pulses during ice breakup, Saint John River, Canada. Cold Regions Science and Technology, 2016, 128, 38-46.	1.6	10
20	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
21	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
22	Comment on: "Effect of flow confinement on the hydrodynamics of circular impinging jets: implications for erosion assessment", by Seyed Mohammad Ghaneezad, 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
23	Hydroclimatic aspects of ice jam flooding near Perth-Andover, New Brunswick. Canadian Journal of Civil Engineering, 2015, 42, 686-695.	0.7	20
24	Hydrotechnical advances in Canadian river ice science and engineering during the past 35 years. Canadian Journal of Civil Engineering, 2015, 42, 583-591.	0.7	27
25	Comparing the impacts of regulation and climate on ice-jam flooding of the Peace-Athabasca Delta. Cold Regions Science and Technology, 2014, 108, 49-58.	1.6	49
26	Estimating river discharge during ice breakup from near-simultaneous satellite imagery. Cold Regions Science and Technology, 2014, 98, 35-46.	1.6	16
27	Hydrodynamic properties of ice-jam release waves in the Mackenzie Delta, Canada. Cold Regions Science and Technology, 2014, 103, 91-106.	1.6	7
28	Hydrodynamic and climatic drivers of ice breakup in the lower Mackenzie River. Cold Regions Science and Technology, 2013, 95, 39-52.	1.6	12
29	Hydrodynamic characteristics and effects of river waves caused by ice jam releases. Cold Regions Science and Technology, 2013, 85, 42-55.	1.6	27
30	Canadian Geophysical Union Hydrology Section Committee on River Ice Processes and the Environment: Brief History. Journal of Cold Regions Engineering - ASCE, 2012, 26, 71-78.	0.5	8
31	Mackenzie Delta flow during spring breakup: uncertainties and potential improvements. Canadian Journal of Civil Engineering, 2012, 39, 579-588.	0.7	15
32	Distributed function analysis of ice jam flood frequency. Cold Regions Science and Technology, 2012, 71, 1-10.	1.6	18
33	Measurements and analysis of ice breakup and jamming characteristics in the Mackenzie Delta, Canada. Cold Regions Science and Technology, 2012, 82, 110-123.	1.6	20
34	Ice jam modelling and field data collection for flood forecasting in the Saint John River, Canada. Hydrological Processes, 2012, 26, 2535-2545.	1.1	40
35	Flow Structure and Channel Stability at the Site of a Deep Scour Hole, Mackenzie Delta, Canada. Arctic, 2012, 65, .	0.2	3
36	Comparative testing of numerical models of river ice jams. Canadian Journal of Civil Engineering, 2011, 38, 669-678.	0.7	40

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37	Morphology and genesis of deep scour holes in the Mackenzie Delta. Canadian Journal of Civil Engineering, 2011, 38, 638-649.	0.7	11
38	Remote data collection on ice breakup dynamics: Saint John River case study. Cold Regions Science and Technology, 2011, 67, 135-145.	1.6	20
39	Arctic Freshwater Ice and Its Climatic Role. Ambio, 2011, 40, 46-52.	2.8	40
40	Past and Future Changes in Arctic Lake and River Ice. Ambio, 2011, 40, 53-62.	2.8	105
41	Effects of Changes in Arctic Lake and River Ice. Ambio, 2011, 40, 63-74.	2.8	123
42	Developing winter flow rating relationships using slope-area hydraulics. River Research and Applications, 2011, 27, 1076-1089.	0.7	21
43	Ice-jam model testing: Matapedia River case studies, 1994 and 1995. Cold Regions Science and Technology, 2010, 60, 29-39.	1.6	22
44	Internal strength properties of river ice jams. Cold Regions Science and Technology, 2010, 62, 83-91.	1.6	8
45	Discussion of "Smoothed particle hydrodynamics hybrid model of ice-jam formation and release". Appears in Canadian Journal of Civil Engineering, 36(7): 1133-1143.. Canadian Journal of Civil Engineering, 2010, 37, 657-658.	0.7	1
46	3D modelling of ice-covered flows in the vicinity of a deep hole in the East Channel of the Mackenzie Delta, N.W.T.. Canadian Journal of Civil Engineering, 2009, 36, 791-800.	0.7	5
47	River ice hydrology in a shrinking cryosphere. Hydrological Processes, 2009, 23, 122-144.	1.1	158
48	Spatial and temporal patterns of breakup and ice jam flooding in the Mackenzie Delta, NWT. Hydrological Processes, 2009, 23, 2654-2670.	1.1	43
49	Field studies of ice breakup and jamming in lower Peace River, Canada. Cold Regions Science and Technology, 2009, 56, 102-114.	1.6	33
50	River flow abstraction due to hydraulic storage at freezeup. Canadian Journal of Civil Engineering, 2009, 36, 519-523.	0.7	9
51	Hydroclimatic impacts on the ice cover of the lower Peace River. Hydrological Processes, 2008, 22, 3252-3263.	1.1	15
52	Assessment of annual high water events for the Mackenzie River basin, Canada. Hydrological Processes, 2008, 22, 3864-3880.	1.1	28
53	Progress in the study and management of river ice jams. Cold Regions Science and Technology, 2008, 51, 2-19.	1.6	93
54	River Ice. , 2008, , 281-305.		16

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55	Climate Impacts on Ice-jam Floods in a Regulated Northern River. , 2008, , 345-361.		11
56	River ice breakup processes: recent advances and future directions. Canadian Journal of Civil Engineering, 2007, 34, 703-716.	0.7	35
57	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
58	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
59	Hydraulic effects of ice breakup on bridges. Canadian Journal of Civil Engineering, 2007, 34, 539-548.	0.7	16
60	The role of waves in ice-jam flooding of the Peace-Athabasca Delta. Hydrological Processes, 2007, 21, 2548-2559.	1.1	31
61	Water temperature decay under breakup ice jams. Cold Regions Science and Technology, 2006, 45, 123-136.	1.6	9
62	Climate Change, Flow Regulation and Land-Use Effects on the Hydrology of the Peace-Athabasca-Slave System; Findings from the Northern Rivers Ecosystem Initiative. Environmental Monitoring and Assessment, 2006, 113, 167-197.	1.3	91
63	Canadian Geophysical Union - Hydrology Section. Hydrological Processes, 2006, 20, 3587-3588.	1.1	1
64	Ice regime of the lower Peace River and ice-jam flooding of the Peace-Athabasca Delta. Hydrological Processes, 2006, 20, 4009-4029.	1.1	83
65	Climatic effects on ice-jam flooding of the Peace-Athabasca Delta. Hydrological Processes, 2006, 20, 4031-4050.	1.1	71
66	Formation of Breakup Ice Jams at Bridges. Journal of Hydraulic Engineering, 2006, 132, 1229-1236.	0.7	11
67	Preface: Canadian Geophysical Union Hydrology Section special issue. Hydrological Processes, 2005, 19, 1-1.	1.1	6
68	Field measurements of ice-jam-release surges. Canadian Journal of Civil Engineering, 2005, 32, 699-711.	0.7	31
69	Determining ice-jam-surge characteristics from measured wave forms. Canadian Journal of Civil Engineering, 2005, 32, 687-698.	0.7	25
70	Climate impacts on the ice regime of an Atlantic river. Hydrology Research, 2004, 35, 81-99.	1.1	23
71	Wave-generated fractures in river ice covers. Cold Regions Science and Technology, 2004, 40, 179-191.	1.6	13
72	Numerical modelling of ice-jam flooding on the Peace-Athabasca delta. Hydrological Processes, 2003, 17, 3685-3702.	1.1	45

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73	Modelling creep deformation in floating ice. Canadian Journal of Civil Engineering, 2003, 30, 28-41.	0.7	6
74	Threshold between mechanical and thermal breakup of river ice cover. Cold Regions Science and Technology, 2003, 37, 1-13.	1.6	73
75	Climatic change and river ice breakup. Canadian Journal of Civil Engineering, 2003, 30, 145-155.	0.7	69
76	Midwinter breakup and jamming on the upper Saint John River: a case study. Canadian Journal of Civil Engineering, 2003, 30, 77-88.	0.7	28
77	Restoring Ice-jam Floodwater to a Drying Delta Ecosystem. Water International, 2002, 27, 58-69.	0.4	35
78	Collapse of floating ice covers under vertical loads: test data vs. theory. Cold Regions Science and Technology, 2002, 34, 191-207.	1.6	43
79	Climatic control of river-ice hydrology: a review. Hydrological Processes, 2002, 16, 805-822.	1.1	166
80	Effects of climate on mid-winter ice jams. Hydrological Processes, 2002, 16, 789-804.	1.1	77
81	Hydraulic Roughness of Breakup Ice Jams. Journal of Hydraulic Engineering, 2001, 127, 650-656.	0.7	42
82	Climate impacts on extreme ice-jam events in Canadian rivers. Hydrological Sciences Journal, 2001, 46, 157-181.	1.2	99
83	Advances in river ice hydrology. Hydrological Processes, 2000, 14, 1613-1625.	1.1	42
84	Flow through the voids of breakup ice jams. Canadian Journal of Civil Engineering, 1999, 26, 177-185.	0.7	17
85	Longitudinal Dispersion in Ice-Covered Rivers. Journal of Cold Regions Engineering - ASCE, 1998, 12, 184-201.	0.5	6
86	1991 ice jamming along the Saint John River: a case study. Canadian Journal of Civil Engineering, 1996, 23, 381-394.	0.7	17
87	Ice Jam Mitigation Using Setback Dykes: Coldwater River at Merritt, B.C.. Journal of Cold Regions Engineering - ASCE, 1996, 10, 190-206.	0.5	5
88	Hindsight on River Ice Jam Stability. Journal of Cold Regions Engineering - ASCE, 1996, 10, 122-133.	0.5	2
89	Ice jam mitigation. Canadian Journal of Civil Engineering, 1990, 17, 675-685.	0.7	15
90	Downstream Transition of River Ice Jams. Journal of Hydraulic Engineering, 1986, 112, 91-110.	0.7	22

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91	IMPINGEMENT OF AXISYMMETRIC DEVELOPING JETS. Journal of Hydraulic Research/De Recherches Hydrauliques, 1977, 15, 311-326.	0.7	89
92	OBLIQUE IMPINGEMENT OF CIRCULAR TURBULENT JETS. Journal of Hydraulic Research/De Recherches Hydrauliques, 1976, 14, 17-36.	0.7	96
93	Evaluation Of Transverse Mixing Coefficients From Slug Tests. Journal of Hydraulic Research/De Recherches Hydrauliques, 1975, 13, 351-360.	0.7	15
94	PLANE TURBULENT IMPINGING JETS. Journal of Hydraulic Research/De Recherches Hydrauliques, 1973, 11, 29-59.	0.7	160