Bommanna G Krishnappan

List of Publications by Year
in descending order

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42 papers	795 citations	516710 16 h-index	526287 27 g-index
45 all docs	45 docs citations	45 times ranked	575 citing authors

#	Article	IF	Citations
1	Turbulence Modeling of Flood Plain Flows. Journal of Hydraulic Engineering, 1986, 112, 251-266.	1.5	67
2	Rotating Circular Flume. Journal of Hydraulic Engineering, 1993, 119, 758-767.	1.5	62
3	Erosional and Mechanical Strengths of Deposited Cohesive Sediments. Journal of Hydraulic Engineering, 1998, 124, 1076-1085.	1.5	61
4	Modelling of flocculation and transport of cohesive sediment from an on-stream stormwater detention pond. Water Research, 2002, 36, 3849-3859.	11.3	58
5	Fully Coupled Unsteady Mobile Boundary Flow Model. Journal of Hydraulic Engineering, 1992, 118, 476-494.	1.5	54
6	Fine-sediment dynamics: towards an improved understanding of sediment erosion and transport. Journal of Soils and Sediments, 2015, 15, 467-479.	3.0	53
7	Sediment Transport Under Ice Cover. Journal of Hydraulic Engineering, 1985, 111, 934-950.	1.5	50
8	The effect of bed age and shear stress on the particle morphology of eroded cohesive river sediment in an annular flume. Water Research, 2008, 42, 4179-4187.	11.3	41
9	Recent advances in basic and applied research in cohesive sediment transport in aquatic systems. Canadian Journal of Civil Engineering, 2007, 34, 731-743.	1.3	29
10	Surges from ice jam releases: a case study. Canadian Journal of Civil Engineering, 1982, 9, 276-284.	1.3	26
11	Ice Cover Effects on Stream Flows and Mixing. Journal of Hydraulic Engineering, 1981, 107, 1225-1242.	0.2	24
12	In Situ Size Distribution of Suspended Particles in the Fraser River. Journal of Hydraulic Engineering, 2000, 126, 561-569.	1.5	22
13	Suspended Sediment Distribution in Wave Field. Journal of Waterway, Port, Coastal and Ocean Engineering, 1984, 110, 215-230.	1.2	21
14	Distribution of Bed Shear Stress in Rotating Circular Flume. Journal of Hydraulic Engineering, 2004, 130, 324-331.	1.5	19
15	Modeling of Unsteady Flows in Alluvial Streams. Journal of Hydraulic Engineering, 1985, 111, 257-266.	1.5	17
16	Laboratory Verification of Turbulent Flow Model. Journal of Hydraulic Engineering, 1984, 110, 500-514.	1.5	16
17	Investigation of a Sequential Filtration Technique for Particle Fractionation. Environmental Science & Technology, 1995, 29, 546-550.	10.0	15
18	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.	1.3	15

#	Article	IF	Citations
19	Sediment source identification: a review and a case study in some Canadian streamsThis paper is one of a selection of papers in this Special Issue in honour of Professor M. Selim Yalin (1925â€“2007).. Canadian Journal of Civil Engineering, 2009, 36, 1622-1633.	1.3	15
20	Laboratory tests on surges created by ice jam releases. Canadian Journal of Civil Engineering, 1985, 12, 930-933.	1.3	14
21	Case Study: Refinement of Hydraulic Operation of a Complex CSO Storage/Treatment Facility by Numerical and Physical Modeling. Journal of Hydraulic Engineering, 2006, 132, 131-139.	1.5	13
22	Modeling of hydrophobic cohesive sediment transport in the Ells River Alberta, Canada. Journal of Soils and Sediments, 2016, 16, 2753-2765.	3.0	13
23	Experimental assessment of Athabasca River cohesive sediment deposition dynamics. Water Quality Research Journal of Canada, 2011, 46, 87-96.	2.7	11
24	A New Framework for Modelling Fine Sediment Transport in Rivers Includes Flocculation to Inform Reservoir Management in Wildfire Impacted Watersheds. Water (Switzerland), 2021, 13, 2319.	2.7	10
25	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. Earth Surface Processes and Landforms, 2012, 37, 957-970.	2.5	9
26	Review of a Semi-Empirical Modelling Approach for Cohesive Sediment Transport in River Systems. Water (Switzerland), 2022, 14, 256.	2.7	8
27	Erosion behaviour of fine sediment deposits. Canadian Journal of Civil Engineering, 2004, 31, 759-766.	1.3	7
28	Experimental Investigation of Erosion Characteristics of Fine-Grained Cohesive Sediments. Water (Switzerland), 2020, 12, 1511.	2.7	7
29	The effect of coarse gravel on cohesive sediment entrapment in an annular flume. Proceedings of the International Association of Hydrological Sciences, 0, 367, 157-162.	1.0	6
30	Suspended Sediment Profile for Iceâ€covered Flows. Journal of Hydraulic Engineering, 1983, 109, 385-399.	1.5	5
31	Seepage flow through simulated grounded ice jam. Canadian Journal of Civil Engineering, 1985, 12, 926-929.	1.3	5
32	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.	1.3	5
33	Use of an In Situ Erosion Flume for Measuring Stability of Sediment Deposits in Hamilton Harbour, Canada. Water, Air and Soil Pollution, 2006, 6, 557-567.	0.8	4
34	Using MOSAND to mitigate the desertification of Minqin Oasis, Gansu Province, China. Canadian Journal of Civil Engineering, 2012, 39, 72-80.	1.3	4
35	Flow Structure and Channel Stability at the Site of a Deep Scour Hole, Mackenzie Delta, Canada. Arctic, 2012, 65, .	0.4	3
36	Effect of pulp mill effluent on the transport of suspended sediment in the Athabasca River near Hinton, Alberta, CanadaThis paper is one of a selection of papers in this Special Issue in honour of Professor M. Selim Yalin (1925â€“2007).. Canadian Journal of Civil Engineering, 2009, 36, 1598-1604.	1.3	2

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37	Discussion of â€œ Flow Resistance in Large Test Channel â€•by Joe C. Willis (December, 1983). Journal of Hydraulic Engineering, 1987, 113, 107-109.	1.5	1
38	Closure to â€œModeling of Unsteady Flows in Alluvial Streamsâ€•by Bommanna G. Krishnappan (February,) Tj ETQq0 0 0 rgBT /Overlock	1.5	0
39	Discussion of â€œ Bed Shear from Velocity Profiles; A New Approach â€•by Subrahmanyam Vedula and Ramakrishna Rao Achanta (January, 1985, Vol. 111, No. 1). Journal of Hydraulic Engineering, 1987, 113, 677-680.	1.5	0
40	Reply to Comment. Environmental Science & Technology, 1995, 29, 2168-2168.	10.0	0
41	An Example Of Modeling Flocculation In A Freshwater Aquatic System. , 2004, , 171-188.		0
42	Modelling of River Flows, Sediment and Contaminants Transport. Water (Switzerland), 2022, 14, 649.	2.7	0