

Robert Boes

List of Publications by Year in descending order

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64
papers

1,450
citations

331670

21
h-index

361022

35
g-index

71
all docs

71
docs citations

71
times ranked

912
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Desanding Facilities for Hydropower Schemes Based on Trapping Efficiency. Water (Switzerland), 2022, 14, 520.	2.7	3
2	Field Investigation of Hydraulics and Fish Guidance Efficiency of a Horizontal Bar Rack-Bypass System. Water (Switzerland), 2022, 14, 776.	2.7	5
3	Protection and guidance of downstream moving fish with horizontal bar rack bypass systems. Ecological Engineering, 2022, 178, 106584.	3.6	6
4	Combining Fish Passage and Sediment Bypassing: A Conceptual Solution for Increased Sustainability of Dams and Reservoirs. Water (Switzerland), 2022, 14, 1977.	2.7	6
5	Fish Guidance Structures with Narrow Bar Spacing: Physical Barriers. , 2022, , 91-98.		2
6	Fish Guidance Structure with Wide Bar Spacing: Mechanical Behavioural Barrier. , 2022, , 99-104.		0
7	Numerical simulation of air entrainment in uniform chute flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 378-391.	1.7	9
8	How does sediment supply influence refugia availability in river widenings?. Journal of Ecohydraulics, 2021, 6, 121-138.	3.1	7
9	Enhancing an unsupervised clustering algorithm with a spatial contiguity constraint for river habitat analysis. Ecohydrology, 2021, 14, e2285.	2.4	7
10	Morphological Response of Channelized, Sinuous Gravel Bed Rivers to Sediment Replenishment. Water Resources Research, 2021, 57, e2020WR029178.	4.2	5
11	Assessing the energy potential of modernizing the European hydropower fleet. Energy Conversion and Management, 2021, 246, 114655.	9.2	48
12	Discussion of "Reservoir Level Rise under Extreme Driftwood Blockage at Ogee Crest" by Loïc BÃ©net, Giovanni De Cesare, and Michael Pfister. Journal of Hydraulic Engineering, 2021, 147, 07021012.	1.5	0
13	Effect of Water Withdrawal on the Appearance and Sound Level of Waterfalls. Water Resources Research, 2021, 57, e2021WR030980.	4.2	2
14	Protection and Guidance of Downstream Moving Fish with Electrified Horizontal Bar Rack Bypass Systems. Water (Switzerland), 2021, 13, 2786.	2.7	5
15	Risk reduction measures of large wood accumulations at bridges. Environmental Fluid Mechanics, 2020, 20, 485-502.	1.6	21
16	An experimental investigation on fish guidance structures with horizontal bars. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 516-530.	1.7	11
17	Laboratory study on wood accumulation probability at bridge piers. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 566-581.	1.7	26
18	Fish guidance structures: hydraulic performance and fish guidance efficiencies. Journal of Ecohydraulics, 2020, 5, 113-131.	3.1	30

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19	Hydraulic performance of fish guidance structures with curved bars – Part 2: flow fields. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 819-830.	1.7	6
20	Hydraulic performance of fish guidance structures with curved bars – Part 1: head loss assessment. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 807-818.	1.7	9
21	Swimming Behavior of Downstream Moving Fish at Innovative Curved-Bar Rack Bypass Systems for Fish Protection at Water Intakes. Water (Switzerland), 2020, 12, 3244.	2.7	13
22	Effects of Secondary Currents on Turbulence Characteristics of Supercritical Open Channel Flows at Low Aspect Ratios. Water (Switzerland), 2020, 12, 3233.	2.7	11
23	Run-Up of Impulse Wave Trains on Steep to Vertical Slopes. Journal of Hydraulic Engineering, 2020, 146, .	1.5	5
24	Head Losses of Horizontal Bar Racks as Fish Guidance Structures. Water (Switzerland), 2020, 12, 475.	2.7	15
25	Velocity Fields at Horizontal Bar Racks as Fish Guidance Structures. Water (Switzerland), 2020, 12, 280.	2.7	16
26	Field Investigation on Hydroabrasion in High-Speed Sediment-Laden Flows at Sediment Bypass Tunnels. Water (Switzerland), 2020, 12, 469.	2.7	9
27	Numerical Simulation of Air–Water Two-Phase Flow on Stepped Spillways Behind X-Shaped Flaring Gate Piers under Very High Unit Discharge. Water (Switzerland), 2019, 11, 1956.	2.7	22
28	Laboratory Flume Experiments on the Formation of Spanwise Large Wood Accumulations: I. Effect on Backwater Rise. Water Resources Research, 2019, 55, 4854-4870.	4.2	30
29	Laboratory Flume Experiments on the Formation of Spanwise Large Wood Accumulations: Part II – Effect on local scour. Water Resources Research, 2019, 55, 4871-4885.	4.2	48
30	High-velocity air-water flows downstream of sluice gates including selection of optimum phase-detection probe. International Journal of Multiphase Flow, 2019, 116, 203-220.	3.4	23
31	Conceptual Approach for Positioning of Fish Guidance Structures Using CFD and Expert Knowledge. Sustainability, 2019, 11, 1646.	3.2	8
32	Spatial Impulse Wave Generation and Propagation. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, .	1.2	31
33	Impulse Wave Runup on Steep to Vertical Slopes. Journal of Marine Science and Engineering, 2019, 7, 8.	2.6	15
34	Abrasion prediction at Asahi sediment bypass tunnel based on Ishibashi’s formula. Journal of Applied Water Engineering and Research, 2018, 6, 125-138.	1.8	6
35	An experimental investigation on louvres and angled bar racks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 59-75.	1.7	32
36	Erosion pattern of artificial gravel deposits. International Journal of Sediment Research, 2018, 33, 57-67.	3.5	9

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37	Hydropower Potential in the Periglacial Environment of Switzerland under Climate Change. Sustainability, 2018, 10, 2794.	3.2	30
38	Morphological development of river widenings with variable sediment supply. E3S Web of Conferences, 2018, 40, 02007.	0.5	4
39	Continuous Seasonal and Large-Scale Periglacial Reservoir Sedimentation. Sustainability, 2018, 10, 3265.	3.2	14
40	Development of Probabilistic Dam Breach Model Using Bayesian Inference. Water Resources Research, 2018, 54, 4376-4400.	4.2	17
41	Modeling Streambank and Artificial Gravel Deposit Erosion for Sediment Replenishment. Water (Switzerland), 2018, 10, 508.	2.7	6
42	Backwater Rise due to Large Wood Accumulations. Journal of Hydraulic Engineering, 2018, 144, .	1.5	75
43	Sediment transport in high-speed flows over a fixed bed: 1. Particle dynamics. Earth Surface Processes and Landforms, 2017, 42, 1365-1383.	2.5	31
44	Sediment transport in high-speed flows over a fixed bed: 2. Particle impacts and abrasion prediction. Earth Surface Processes and Landforms, 2017, 42, 1384-1396.	2.5	28
45	Numerical embankment breach modelling including seepage flow effects. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 480-490.	1.7	12
46	Measuring suspended sediments in periglacial reservoirs using water samples, laser in-situ scattering and transmissometry and acoustic Doppler current profiler. International Journal of River Basin Management, 2017, 15, 413-431.	2.7	4
47	Assessment of flow field and sediment flux at alpine desanding facilities. International Journal of River Basin Management, 2017, 15, 287-295.	2.7	11
48	Stability of Unstructured Block Ramps. Journal of Hydraulic Engineering, 2017, 143, .	1.5	7
49	Laboratory flume experiments with the Swiss plate geophone bed load monitoring system: 1. Impulse counts and particle size identification. Water Resources Research, 2016, 52, 7744-7759.	4.2	35
50	Laboratory flume experiments with the Swiss plate geophone bed load monitoring system: 2. Application to field sites with direct bed load samples. Water Resources Research, 2016, 52, 7760-7778.	4.2	38
51	Stepped chute of TrÅngslet Dam: physical model study. Journal of Applied Water Engineering and Research, 2015, 3, 166-176.	1.8	0
52	Vortex-Induced Air Entrainment Rates at Intakes. Journal of Hydraulic Engineering, 2015, 141, .	1.5	38
53	Side-Channel Flow: Physical Model Studies. Journal of Hydraulic Engineering, 2015, 141, .	1.5	9
54	Experimental study on the flow characteristics of unstructured block ramps. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 600-613.	1.7	8

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55	Hydraulic structures: a positive outlook into the future. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 299-310.	1.7	31
56	An experimental study on fish-friendly trashracks: part I & II. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 144-146.	1.7	4
57	Trajectories and air flow features of ski jump-generated jets. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 336-346.	1.7	31
58	Turbulence Characteristics in Supercritical Open Channel Flows: Effects of Froude Number and Aspect Ratio. Journal of Hydraulic Engineering, 2014, 140, .	1.5	48
59	Laboratory investigation on measuring suspended sediment by portable laser diffractometer (LISST) focusing on particle shape. Geo-Marine Letters, 2013, 33, 485-498.	1.1	25
60	Deflector Effect on Chute Flow. Journal of Hydraulic Engineering, 2013, 139, 444-449.	1.5	19
61	Aerated flow characteristics of skimming flow over stepped chutes. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 735-736.	1.7	1
62	Hydraulic Design of Stepped Spillways. Journal of Hydraulic Engineering, 2003, 129, 671-679.	1.5	178
63	Two-Phase Flow Characteristics of Stepped Spillways. Journal of Hydraulic Engineering, 2003, 129, 661-670.	1.5	228
64	Effect of Macrorough Sidewalls on Flow Resistance in Steep Rough Channels. Water Resources Research, 0, , .	4.2	1