

# Robert Boes

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

941

citations

17

h-index

28

g-index

71

ext. papers

1,170

ext. citations

2.5

avg, IF

4.86

L-index

#	Paper	IF	Citations
68	Design of Desanding Facilities for Hydropower Schemes Based on Trapping Efficiency. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 520	3	
67	Field Investigation of Hydraulics and Fish Guidance Efficiency of a Horizontal Bar Rack-Bypass System. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 776	3	1
66	Fish Guidance Structures with Narrow Bar Spacing: Physical Barriers <b>2022</b> , 91-98		
65	Fish Guidance Structure with Wide Bar Spacing: Mechanical Behavioural Barrier <b>2022</b> , 99-104		
64	Curved-Bar-Rack-Bypass-Systeme für den Fischschutz an Wasserkraftanlagen und Wasserfassungen. <i>Wasserwirtschaft</i> , <b>2021</b> , 111, 54-61	0.3	
63	Effect of Water Withdrawal on the Appearance and Sound Level of Waterfalls. <i>Water Resources Research</i> , <b>2021</b> , 57, e2021WR030980	5.4	0
62	Hydraulik und betriebliche Aspekte von Horizontalrechen-Bypass-Systemen. <i>Wasserwirtschaft</i> , <b>2021</b> , 111, 20-27	0.3	
61	Protection and Guidance of Downstream Moving Fish with Electrified Horizontal Bar Rack Bypass Systems. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2786	3	1
60	Bemessungsempfehlungen für den Fischschutz mit Horizontalrechen-Bypass-Systemen. <i>Wasserwirtschaft</i> , <b>2021</b> , 111, 28-33	0.3	
59	Enhancing an unsupervised clustering algorithm with a spatial contiguity constraint for river habitat analysis. <i>Ecohydrology</i> , <b>2021</b> , 14, e2285	2.5	1
58	Morphological Response of Channelized, Sinuous Gravel-Bed Rivers to Sediment Replenishment. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR029178	5.4	2
57	Numerical simulation of air entrainment in uniform chute flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2021</b> , 59, 378-391	1.9	4
56	How does sediment supply influence refugia availability in river widenings?. <i>Journal of Ecohydraulics</i> , <b>2021</b> , 6, 121-138	1.3	0
55	Assessing the energy potential of modernizing the European hydropower fleet. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114655	10.6	17
54	Discussion of Reservoir Level Rise under Extreme Driftwood Blockage at Ogee Crest by Loïc Bénet, Giovanni De Cesare, and Michael Pfister. <i>Journal of Hydraulic Engineering</i> , <b>2021</b> , 147, 07021012	1.8	
53	Head Losses of Horizontal Bar Racks as Fish Guidance Structures. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 475	3	11
52	Velocity Fields at Horizontal Bar Racks as Fish Guidance Structures. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 280	3	11

51	Field Investigation on Hydroabrasion in High-Speed Sediment-Laden Flows at Sediment Bypass Tunnels. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 469	3	4
50	Fish guidance structures: hydraulic performance and fish guidance efficiencies. <i>Journal of Ecohydraulics</i> , <b>2020</b> , 5, 113-131	1.3	17
49	Hydraulic performance of fish guidance structures with curved bars [Part 2: flow fields. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 819-830	1.9	6
48	Hydraulic performance of fish guidance structures with curved bars [Part 1: head loss assessment. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 807-818	1.9	8
47	BASEMENT [Softwareumgebung zur numerischen Modellierung der Hydro- und Morphodynamik in Fließgewässern. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , <b>2020</b> , 72, 281-290	0.4	
46	Swimming Behavior of Downstream Moving Fish at Innovative Curved-Bar Rack Bypass Systems for Fish Protection at Water Intakes. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3244	3	8
45	Effects of Secondary Currents on Turbulence Characteristics of Supercritical Open Channel Flows at Low Aspect Ratios. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3233	3	4
44	Run-Up of Impulse Wave Trains on Steep to Vertical Slopes. <i>Journal of Hydraulic Engineering</i> , <b>2020</b> , 146, 04020072	1.8	1
43	Risk reduction measures of large wood accumulations at bridges. <i>Environmental Fluid Mechanics</i> , <b>2020</b> , 20, 485-502	2.2	11
42	An experimental investigation on fish guidance structures with horizontal bars. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 516-530	1.9	9
41	Laboratory study on wood accumulation probability at bridge piers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 566-581	1.9	16
40	Bewertung von Talsperren-Erhöpfungsoptionen in der Schweiz. <i>Wasserwirtschaft</i> , <b>2019</b> , 109, 146-149	0.3	2
39	Laboratory Flume Experiments on the Formation of Spanwise Large Wood Accumulations: I. Effect on Backwater Rise. <i>Water Resources Research</i> , <b>2019</b> , 55, 4854	5.4	15
38	Laboratory Flume Experiments on the Formation of Spanwise Large Wood Accumulations: Part II Effect on local scour. <i>Water Resources Research</i> , <b>2019</b> , 55, 4871-4885	5.4	34
37	High-velocity air-water flows downstream of sluice gates including selection of optimum phase-detection probe. <i>International Journal of Multiphase Flow</i> , <b>2019</b> , 116, 203-220	3.6	17
36	Conceptual Approach for Positioning of Fish Guidance Structures Using CFD and Expert Knowledge. <i>Sustainability</i> , <b>2019</b> , 11, 1646	3.6	7
35	Spatial Impulse Wave Generation and Propagation. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , <b>2019</b> , 145, 04019011	1.7	17
34	Impulse Wave Runup on Steep to Vertical Slopes. <i>Journal of Marine Science and Engineering</i> , <b>2019</b> , 7, 8	2.4	8

33	Numerical Simulation of Air-Water Two-Phase Flow on Stepped Spillways Behind X-Shaped Flaring Gate Piers under Very High Unit Discharge. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1956	3	11
32	Abrasion prediction at Asahi sediment bypass tunnel based on Ishibashi's formula. <i>Journal of Applied Water Engineering and Research</i> , <b>2018</b> , 6, 125-138	1.2	5
31	An experimental investigation on louvres and angled bar racks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2018</b> , 56, 59-75	1.9	27
30	Erosion pattern of artificial gravel deposits. <i>International Journal of Sediment Research</i> , <b>2018</b> , 33, 57-67	3	7
29	Modeling Streambank and Artificial Gravel Deposit Erosion for Sediment Replenishment. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 508	3	3
28	Backwater Rise due to Large Wood Accumulations. <i>Journal of Hydraulic Engineering</i> , <b>2018</b> , 144, 04018056	6.8	45
27	Hydropower Potential in the Periglacial Environment of Switzerland under Climate Change. <i>Sustainability</i> , <b>2018</b> , 10, 2794	3.6	19
26	Morphological development of river widenings with variable sediment supply. <i>E3S Web of Conferences</i> , <b>2018</b> , 40, 02007	0.5	3
25	Continuous Seasonal and Large-Scale Periglacial Reservoir Sedimentation. <i>Sustainability</i> , <b>2018</b> , 10, 3265	3.6	7
24	Development of Probabilistic Dam Breach Model Using Bayesian Inference. <i>Water Resources Research</i> , <b>2018</b> , 54, 4376-4400	5.4	8
23	Sediment transport in high-speed flows over a fixed bed: 1. Particle dynamics. <i>Earth Surface Processes and Landforms</i> , <b>2017</b> , 42, 1365-1383	3.7	19
22	Sediment transport in high-speed flows over a fixed bed: 2. Particle impacts and abrasion prediction. <i>Earth Surface Processes and Landforms</i> , <b>2017</b> , 42, 1384-1396	3.7	18
21	Numerical embankment breach modelling including seepage flow effects. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2017</b> , 55, 480-490	1.9	11
20	Measuring suspended sediments in periglacial reservoirs using water samples, laser in-situ scattering and transmissometry and acoustic Doppler current profiler. <i>International Journal of River Basin Management</i> , <b>2017</b> , 15, 413-431	1.7	3
19	Assessment of flow field and sediment flux at alpine desanding facilities. <i>International Journal of River Basin Management</i> , <b>2017</b> , 15, 287-295	1.7	6
18	Stability of Unstructured Block Ramps. <i>Journal of Hydraulic Engineering</i> , <b>2017</b> , 143, 04016095	1.8	2
17	Laboratory flume experiments with the Swiss plate geophone bed load monitoring system: 1. Impulse counts and particle size identification. <i>Water Resources Research</i> , <b>2016</b> , 52, 7744-7759	5.4	24
16	Laboratory flume experiments with the Swiss plate geophone bed load monitoring system: 2. Application to field sites with direct bed load samples. <i>Water Resources Research</i> , <b>2016</b> , 52, 7760-7778	5.4	27

15	Vereinfachte Modellierung des progressiven Bruchs bei kleinen Erdschüttungen. <i>Wasserwirtschaft</i> , <b>2016</b> , 106, 140-143	0.3	1
14	Fischschutz und Fischabstieg mittels vertikaler Leitrechen-Bypass-Systeme: Rechenverluste und Leiteffizienz. <i>Wasserwirtschaft</i> , <b>2016</b> , 106, 29-35	0.3	9
13	Stepped chute of Trängslet Dam: physical model study. <i>Journal of Applied Water Engineering and Research</i> , <b>2015</b> , 3, 166-176	1.2	
12	Vortex-Induced Air Entrainment Rates at Intakes. <i>Journal of Hydraulic Engineering</i> , <b>2015</b> , 141, 04015026	1.8	23
11	Side-Channel Flow: Physical Model Studies. <i>Journal of Hydraulic Engineering</i> , <b>2015</b> , 141, 05015003	1.8	6
10	Hydraulic structures: a positive outlook into the future. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2014</b> , 52, 299-310	1.9	24
9	An experimental study on fish-friendly trashracks: part I & II. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2014</b> , 52, 144-146	1.9	4
8	Trajectories and air flow features of ski jump-generated jets. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2014</b> , 52, 336-346	1.9	23
7	Turbulence Characteristics in Supercritical Open Channel Flows: Effects of Froude Number and Aspect Ratio. <i>Journal of Hydraulic Engineering</i> , <b>2014</b> , 140, 04014004	1.8	35
6	Experimental study on the flow characteristics of unstructured block ramps. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2014</b> , 52, 600-613	1.9	7
5	Laboratory investigation on measuring suspended sediment by portable laser diffractometer (LISST) focusing on particle shape. <i>Geo-Marine Letters</i> , <b>2013</b> , 33, 485-498	1.9	21
4	Deflector Effect on Chute Flow. <i>Journal of Hydraulic Engineering</i> , <b>2013</b> , 139, 444-449	1.8	17
3	Aerated flow characteristics of skimming flow over stepped chutes. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2013</b> , 51, 735-736	1.9	0
2	Hydraulic Design of Stepped Spillways. <i>Journal of Hydraulic Engineering</i> , <b>2003</b> , 129, 671-679	1.8	121
1	Two-Phase Flow Characteristics of Stepped Spillways. <i>Journal of Hydraulic Engineering</i> , <b>2003</b> , 129, 661-670	1.8	170