Robert Boes

List of Publications by Citations

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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	Two-Phase Flow Characteristics of Stepped Spillways. *Journal of Hydraulic Engineering*, **2003**, 129, 661-670	1.8	170
67	Hydraulic Design of Stepped Spillways. *Journal of Hydraulic Engineering*, **2003**, 129, 671-679	1.8	121
66	Backwater Rise due to Large Wood Accumulations. *Journal of Hydraulic Engineering*, **2018**, 144, 04018056	1.8	45
65	Turbulence Characteristics in Supercritical Open Channel Flows: Effects of Froude Number and Aspect Ratio. *Journal of Hydraulic Engineering*, **2014**, 140, 04014004	1.8	35
64	Laboratory Flume Experiments on the Formation of Spanwise Large Wood Accumulations: Part IIEffect on local scour. *Water Resources Research*, **2019**, 55, 4871-4885	5.4	34
63	An experimental investigation on louvres and angled bar racks. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2018**, 56, 59-75	1.9	27
62	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	5.4	27
61	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	5.4	24
60	Hydraulic structures: a positive outlook into the future. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2014**, 52, 299-310	1.9	24
59	Vortex-Induced Air Entrainment Rates at Intakes. *Journal of Hydraulic Engineering*, **2015**, 141, 04015026	1.8	23
58	Trajectories and air flow features of ski jump-generated jets. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2014**, 52, 336-346	1.9	23
57	Laboratory investigation on measuring suspended sediment by portable laser diffractometer (LISST) focusing on particle shape. *Geo-Marine Letters*, **2013**, 33, 485-498	1.9	21
56	Sediment transport in high-speed flows over a fixed bed: 1. Particle dynamics. *Earth Surface Processes and Landforms*, **2017**, 42, 1365-1383	3.7	19
55	Hydropower Potential in the Periglacial Environment of Switzerland under Climate Change. *Sustainability*, **2018**, 10, 2794	3.6	19
54	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	3.7	18
53	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	3.6	17
52	Spatial Impulse Wave Generation and Propagation. *Journal of Waterway, Port, Coastal and Ocean Engineering*, **2019**, 145, 04019011	1.7	17

51	Deflector Effect on Chute Flow. *Journal of Hydraulic Engineering*, **2013**, 139, 444-449	1.8	17
50	Fish guidance structures: hydraulic performance and fish guidance efficiencies. *Journal of Ecohydraulics*, **2020**, 5, 113-131	1.3	17
49	Assessing the energy potential of modernizing the European hydropower fleet. *Energy Conversion and Management*, **2021**, 246, 114655	10.6	17
48	Laboratory study on wood accumulation probability at bridge piers. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2020**, 58, 566-581	1.9	16
47	Laboratory Flume Experiments on the Formation of Spanwise Large Wood Accumulations: I. Effect on Backwater Rise. *Water Resources Research*, **2019**, 55, 4854	5.4	15
46	Numerical embankment breach modelling including seepage flow effects. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2017**, 55, 480-490	1.9	11
45	Head Losses of Horizontal Bar Racks as Fish Guidance Structures. *Water (Switzerland)*, **2020**, 12, 475	3	11
44	Velocity Fields at Horizontal Bar Racks as Fish Guidance Structures. *Water (Switzerland)*, **2020**, 12, 280	3	11
43	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	3	11
42	Risk reduction measures of large wood accumulations at bridges. *Environmental Fluid Mechanics*, **2020**, 20, 485-502	2.2	11
41	Fischschutz und Fischabstieg mittels vertikaler Leitrechen-Bypass-Systeme: Rechenverluste und Leiteffizienz. *Wasserwirtschaft*, **2016**, 106, 29-35	0.3	9
40	An experimental investigation on fish guidance structures with horizontal bars. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2020**, 58, 516-530	1.9	9
39	Impulse Wave Runup on Steep to Vertical Slopes. *Journal of Marine Science and Engineering*, **2019**, 7, 8	2.4	8
38	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	1.9	8
37	Swimming Behavior of Downstream Moving Fish at Innovative Curved-Bar Rack Bypass Systems for Fish Protection at Water Intakes. *Water (Switzerland)*, **2020**, 12, 3244	3	8
36	Development of Probabilistic Dam Breach Model Using Bayesian Inference. *Water Resources Research*, **2018**, 54, 4376-4400	5.4	8
35	Conceptual Approach for Positioning of Fish Guidance Structures Using CFD and Expert Knowledge. *Sustainability*, **2019**, 11, 1646	3.6	7
34	Erosion pattern of artificial gravel deposits. *International Journal of Sediment Research*, **2018**, 33, 57-67	3	7

33	Experimental study on the flow characteristics of unstructured block ramps. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2014**, 52, 600-613	1.9	7
32	Continuous Seasonal and Large-Scale Periglacial Reservoir Sedimentation. *Sustainability*, **2018**, 10, 3265	3.6	7
31	Side-Channel Flow: Physical Model Studies. *Journal of Hydraulic Engineering*, **2015**, 141, 05015003	1.8	6
30	Assessment of flow field and sediment flux at alpine desanding facilities. *International Journal of River Basin Management*, **2017**, 15, 287-295	1.7	6
29	Hydraulic performance of fish guidance structures with curved bars □Part 2: flow fields. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2020**, 58, 819-830	1.9	6
28	Abrasion prediction at Asahi sediment bypass tunnel based on Ishibashi□ formula. *Journal of Applied Water Engineering and Research*, **2018**, 6, 125-138	1.2	5
27	Field Investigation on Hydroabrasion in High-Speed Sediment-Laden Flows at Sediment Bypass Tunnels. *Water (Switzerland)*, **2020**, 12, 469	3	4
26	An experimental study on fish-friendly trashracks: part I & II. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2014**, 52, 144-146	1.9	4
25	Effects of Secondary Currents on Turbulence Characteristics of Supercritical Open Channel Flows at Low Aspect Ratios. *Water (Switzerland)*, **2020**, 12, 3233	3	4
24	Numerical simulation of air entrainment in uniform chute flow. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2021**, 59, 378-391	1.9	4
23	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	1.7	3
22	Modeling Streambank and Artificial Gravel Deposit Erosion for Sediment Replenishment. *Water (Switzerland)*, **2018**, 10, 508	3	3
21	Morphological development of river widenings with variable sediment supply. *E3S Web of Conferences*, **2018**, 40, 02007	0.5	3
20	Bewertung von Talsperren-Erh□ungsoptionen in der Schweiz. *Wasserwirtschaft*, **2019**, 109, 146-149	0.3	2
19	Stability of Unstructured Block Ramps. *Journal of Hydraulic Engineering*, **2017**, 143, 04016095	1.8	2
18	Morphological Response of Channelized, Sinuous Gravel-Bed Rivers to Sediment Replenishment. *Water Resources Research*, **2021**, 57, e2020WR029178	5.4	2
17	Protection and Guidance of Downstream Moving Fish with Electrified Horizontal Bar Rack Bypass Systems. *Water (Switzerland)*, **2021**, 13, 2786	3	1
16	Vereinfachte Modellierung des progressiven Bruchs bei kleinen Erdsch□tdämmen. *Wasserwirtschaft*, **2016**, 106, 140-143	0.3	1

15	Run-Up of Impulse Wave Trains on Steep to Vertical Slopes. *Journal of Hydraulic Engineering*, **2020**, 146, 04020072	1.8	1
14	Enhancing an unsupervised clustering algorithm with a spatial contiguity constraint for river habitat analysis. *Ecohydrology*, **2021**, 14, e2285	2.5	1
13	Field Investigation of Hydraulics and Fish Guidance Efficiency of a Horizontal Bar Rack-Bypass System. *Water (Switzerland)*, **2022**, 14, 776	3	1
12	Aerated flow characteristics of skimming flow over stepped chutes. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2013**, 51, 735-736	1.9	0
11	Effect of Water Withdrawal on the Appearance and Sound Level of Waterfalls. *Water Resources Research*, **2021**, 57, e2021WR030980	5.4	0
10	How does sediment supply influence refugia availability in river widenings?. *Journal of Ecohydraulics* , **2021**, 6, 121-138	1.3	0
9	Stepped chute of Trigslet Dam: physical model study. *Journal of Applied Water Engineering and Research*, **2015**, 3, 166-176	1.2	
8	Design of Desanding Facilities for Hydropower Schemes Based on Trapping Efficiency. *Water (Switzerland)*, **2022**, 14, 520	3	
7	Curved-Bar-Rack-Bypass-Systeme fiden Fischschutz an Wasserkraftanlagen und Wasserfassungen. *Wasserwirtschaft*, **2021**, 111, 54-61	0.3	
6	Hydraulik und betriebliche Aspekte von Horizontalrechen-Bypass-Systemen. *Wasserwirtschaft*, **2021**, 111, 20-27	0.3	
5	Bemessungsempfehlungen fiden Fischschutz mit Horizontalrechen-Bypass-Systemen. *Wasserwirtschaft*, **2021**, 111, 28-33	0.3	
4	BASEMENT Softwareumgebung zur numerischen Modellierung der Hydro- und Morphodynamik in Fliewssern. *Osterreichische Wasser- Und Abfallwirtschaft*, **2020**, 72, 281-290	0.4	
3	Discussion of Reservoir Level Rise under Extreme Driftwood Blockage at Ogee Crest by Lo Bret, Giovanni De Cesare, and Michael Pfister. *Journal of Hydraulic Engineering*, **2021**, 147, 07021012	1.8	
2	Fish Guidance Structures with Narrow Bar Spacing: Physical Barriers **2022**, 91-98		
1	Fish Guidance Structure with Wide Bar Spacing: Mechanical Behavioural Barrier **2022**, 99-104		