Walter Bertoldi

List of Publications by Year in descending order

69 papers	3,161 citations	172457 29 h-index	161849 54 g-index
83 all docs	83 docs citations	83 times ranked	1966 citing authors

#	Article	IF	Citations
1	Wood in Fluvial Systems. , 2022, , 320-352.		4
2	The impact of plants on fine sediment storage within the active channels of gravelâ€bed rivers: A preliminary assessment. Hydrological Processes, 2022, 36, .	2.6	5
3	Rock glaciers and paraglacial features influence stream invertebrates in a deglaciating Alpine area. Freshwater Biology, 2021, 66, 535-548.	2.4	6
4	Contrasting physical and chemical conditions of two rock glacier springs. Hydrological Processes, 2021, 35, e14159.	2.6	9
5	Improving river hydromorphological assessment through better integration of riparian vegetation: Scientific evidence and guidelines. Journal of Environmental Management, 2021, 292, 112730.	7.8	38
6	Rethinking swimming performance tests for bottom-dwelling fish: the case of European glass eel (Anguilla anguilla). Scientific Reports, 2020, 10, 16416.	3.3	12
7	Extending the conceptual model of river island development to incorporate different tree species and environmental conditions. River Research and Applications, 2020, 36, 1730-1747.	1.7	12
8	SMART Research: Toward Interdisciplinary River Science in Europe. Frontiers in Environmental Science, 2020, 8, .	3.3	6
9	Numerical Modeling of Instream Wood Transport, Deposition, and Accumulation in Braided Morphologies Under Unsteady Conditions: Sensitivity and Highâ€Resolution Quantitative Model Validation. Water Resources Research, 2020, 56, e2019WR026221.	4.2	19
10	The role of vegetation and large wood on the topographic characteristics of braided river systems. Geomorphology, 2020, 367, 107299.	2.6	25
11	Restoring a glacierâ€fed river: Past and present morphodynamics of a degraded channel in the Italian Alps. Earth Surface Processes and Landforms, 2020, 45, 2804-2823.	2.5	15
12	Physical engineering of an islandâ€braided river by two riparian tree species: Evidence from aerial images and airborne lidar. River Research and Applications, 2020, 36, 1183-1201.	1.7	13
13	Hydrokinetic Turbines in Yawed Conditions: Toward Synergistic Fluvial Installations. Journal of Hydraulic Engineering, 2020, 146, .	1.5	8
14	Turbulence, instream wood and fish: Ecohydraulic interactions under field conditions. Ecohydrology, 2020, 13, e2211.	2.4	5
15	Morphometric properties of alternate bars and water discharge: a laboratory investigation. Earth Surface Dynamics, 2020, 8, 789-808.	2.4	17
16	Management of vegetation encroachment by natural and induced channel avulsions: A physical model. River Research and Applications, 2019, 35, 1257.	1.7	3
17	When Does Vegetation Establish on Gravel Bars? Observations and Modeling in the Alpine Rhine River. Frontiers in Environmental Science, 2019, 7, .	3.3	23
18	After the peak water: the increasing influence of rock glaciers on alpine river systems. Hydrological Processes, 2019, 33, 2804-2823.	2.6	25

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19	Ecosystem shifts in Alpine streams under glacier retreat and rock glacier thaw: A review. Science of the Total Environment, 2019, 675, 542-559.	8.0	79
20	Understanding processes of island development on an island braided river over timescales from days to decades. Earth Surface Processes and Landforms, 2019, 44, 624-640.	2.5	25
21	Bed Load Variability and Morphology of Gravel Bed Rivers Subject to Unsteady Flow: A Laboratory Investigation. Water Resources Research, 2018, 54, 842-862.	4.2	14
22	Evaluation of a numerical model's ability to predict bed load transport observed in braided river experiments. Advances in Water Resources, 2018, 115, 207-218.	3.8	21
23	Channelization of a large Alpine river: what is left of its original morphodynamics?. Earth Surface Processes and Landforms, 2018, 43, 1044-1062.	2.5	57
24	Feedbacks between the riparian Salicaceae and hydrogeomorphic processes: A quantitative review. Earth-Science Reviews, 2018, 176, 147-165.	9.1	43
25	Multi-Temporal Image Analysis for Fluvial Morphological Characterization with Application to Albanian Rivers. ISPRS International Journal of Geo-Information, 2018, 7, 314.	2.9	27
26	Let's get connected: A new graph theoryâ€based approach and toolbox for understanding braided river morphodynamics. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1296.	6.5	19
27	Capturing the spatiotemporal variability of bedload transport: A timeâ€lapse imagery technique. Earth Surface Processes and Landforms, 2017, 42, 1140-1147.	2.5	8
28	Life in turbulent flows: interactions between hydrodynamics and aquatic organisms in rivers. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1213.	6.5	25
29	Dynamics and ecology of wood in world rivers. Geomorphology, 2017, 279, 1-2.	2.6	8
30	How large is a river? Conceptualizing river landscape signatures and envelopes in four dimensions. Wiley Interdisciplinary Reviews: Water, 2016, 3, 313-325.	6.5	27
31	Analysis of reachâ€scale elevation distribution in braided rivers: Definition of a new morphologic indicator and estimation of mean quantities. Water Resources Research, 2016, 52, 5951-5970.	4.2	29
32	Multidecadal dynamics of alternate bars in the <scp>A</scp>lpine <scp>R</scp>hine <scp>R</scp>iver. Water Resources Research, 2016, 52, 8938-8955.	4.2	71
33	River bank burrowing by invasive crayfish: Spatial distribution, biophysical controls and biogeomorphic significance. Science of the Total Environment, 2016, 569-570, 1190-1200.	8.0	33
34	The effect of lateral confinement on gravel bed river morphology. Water Resources Research, 2015, 51, 7145-7158.	4.2	37
35	Vegetation turnover in a braided river: frequency and effectiveness of floods of different magnitude. Earth Surface Processes and Landforms, 2015, 40, 542-558.	2.5	76
36	Dynamic riverine landscapes: the role of ecosystem engineers. Earth Surface Processes and Landforms, 2015, 40, 1701-1704.	2.5	5

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37	Physical modelling of the combined effect of vegetation and wood on river morphology. Geomorphology, 2015, 246, 178-187.	2.6	92
38	Large Wood Dynamics Along the Tagliamento River, Italy: Insights from Field and Remote Sensing Investigations. , 2015, , 151-154.		2
39	Braided Pattern. , 2015, , 170-174.		0
40	A flume experiment on wood storage and remobilization in braided river systems. Earth Surface Processes and Landforms, 2014, 39, 804-813.	2.5	52
41	Braiding Rivers: State of the Art and Future Challenges. Eos, 2014, 95, 381-381.	0.1	3
42	Modeling vegetation controls on fluvial morphological trajectories. Geophysical Research Letters, 2014, 41, 7167-7175.	4.0	119
43	Morphodynamics of alternate bars in the Alpine Rhine River: Methods for the applicability of mathematical models using fields observations. , 2014, , 1213-1220.		2
44	Six decades of changes in the riparian corridor of a Mediterranean river: a synthetic analysis based on historical data sources. Ecohydrology, 2013, 6, 536-553.	2.4	46
45	12.4 River Processes and Implications for Fluvial Ecogeomorphology: A European Perspective. , 2013, , 37-52.		16
46	An assessment of the degree to which Landsat TM data can support the assessment of fluvial dynamics, as revealed by changes in vegetation extent and channel position, along a large river. Geomorphology, 2013, 202, 74-85.	2.6	70
47	Wood recruitment and retention: The fate of eroded trees on a braided river explored using a combination of field and remotely-sensed data sources. Geomorphology, 2013, 180-181, 146-155.	2.6	66
48	Wood dispersal in braided streams: Results from physical modeling. Water Resources Research, 2013, 49, 7388-7400.	4.2	54
49	River Processes and Implications for Fluvial Ecogeomorphology: A European Perspective. , 2013, , 367-381.		0
50	The response of braided planform configuration to flow variations, bed reworking and vegetation: the case of the Tagliamento River, Italy. Earth Surface Processes and Landforms, 2012, 37, 572-582.	2.5	70
51	Life of a bifurcation in a gravelâ€bed braided river. Earth Surface Processes and Landforms, 2012, 37, 1327-1336.	2.5	54
52	Changing river channels: The roles of hydrological processes, plants and pioneer fluvial landforms in humid temperate, mixed load, gravel bed rivers. Earth-Science Reviews, 2012, 111, 129-141.	9.1	384
53	The topographic signature of vegetation development along a braided river: Results of a combined analysis of airborne lidar, color air photographs, and ground measurements. Water Resources Research, 2011, 47, .	4.2	160
54	Interactions between river flows and colonizing vegetation on a braided river: exploring spatial and temporal dynamics in riparian vegetation cover using satellite data. Earth Surface Processes and Landforms, 2011, 36, 1474-1486.	2.5	147

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55	Active width of gravelâ€bed braided rivers. Earth Surface Processes and Landforms, 2011, 36, 1510-1521.	2.5	93
56	Assessment of morphological changes induced by flow and flood pulses in a gravel bed braided river: The Tagliamento River (Italy). Geomorphology, 2010, 114, 348-360.	2.6	115
57	Width variations and mid-channel bar inception in meanders: River Bollin (UK). Geomorphology, 2010, 119, 1-8.	2.6	53
58	Planform dynamics of braided streams. Earth Surface Processes and Landforms, 2009, 34, 547-557.	2.5	131
59	Implications of channel processes for juvenile fish habitats in Alpine rivers. Aquatic Sciences, 2009, 71, 338-349.	1.5	23
60	Understanding reference processes: linkages between river flows, sediment dynamics and vegetated landforms along the Tagliamento River, Italy. River Research and Applications, 2009, 25, 501-516.	1.7	121
61	River restoration: advances in research and applications. Selected papers from the Fourth European Centre for River Restoration Conference, Venice, June 2008. River Research and Applications, 2009, 25, 499-500.	1.7	1
62	A method for estimating the mean bed load flux in braided rivers. Geomorphology, 2009, 103, 330-340.	2.6	78
63	Interaction between migrating bars and bifurcations in gravel bed rivers. Water Resources Research, 2009, 45, .	4.2	63
64	6 Bifurcations in gravel-bed streams. Developments in Earth Surface Processes, 2007, 11, 133-159.	2.8	4
65	River bifurcations: Experimental observations on equilibrium configurations. Water Resources Research, 2007, 43, .	4.2	99
66	Monitoring and predicting channel change in a free-evolving, small Alpine river: Ridanna Creek (North) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	24
67	Experimental observations on channel bifurcations evolving to an equilibrium state. , 2006, , .		1
68	Bed load fluctuations and channel processes in a braided network laboratory model. , 2006, , .		1
69	Bed and bank evolution of bifurcating channels. Water Resources Research, 2005, 41, .	4.2	70