

# Walter Bertoldi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7735388/publications.pdf>

Version: 2024-02-01

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	Changing river channels: The roles of hydrological processes, plants and pioneer fluvial landforms in humid temperate, mixed load, gravel bed rivers. <i>Earth-Science Reviews</i> , 2012, 111, 129-141.	9.1	384
2	The topographic signature of vegetation development along a braided river: Results of a combined analysis of airborne lidar, color air photographs, and ground measurements. <i>Water Resources Research</i> , 2011, 47, .	4.2	160
3	Interactions between river flows and colonizing vegetation on a braided river: exploring spatial and temporal dynamics in riparian vegetation cover using satellite data. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1474-1486.	2.5	147
4	Planform dynamics of braided streams. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 547-557.	2.5	131
5	Understanding reference processes: linkages between river flows, sediment dynamics and vegetated landforms along the Tagliamento River, Italy. <i>River Research and Applications</i> , 2009, 25, 501-516.	1.7	121
6	Modeling vegetation controls on fluvial morphological trajectories. <i>Geophysical Research Letters</i> , 2014, 41, 7167-7175.	4.0	119
7	Assessment of morphological changes induced by flow and flood pulses in a gravel bed braided river: The Tagliamento River (Italy). <i>Geomorphology</i> , 2010, 114, 348-360.	2.6	115
8	River bifurcations: Experimental observations on equilibrium configurations. <i>Water Resources Research</i> , 2007, 43, .	4.2	99
9	Active width of gravel-bed braided rivers. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1510-1521.	2.5	93
10	Physical modelling of the combined effect of vegetation and wood on river morphology. <i>Geomorphology</i> , 2015, 246, 178-187.	2.6	92
11	Ecosystem shifts in Alpine streams under glacier retreat and rock glacier thaw: A review. <i>Science of the Total Environment</i> , 2019, 675, 542-559.	8.0	79
12	A method for estimating the mean bed load flux in braided rivers. <i>Geomorphology</i> , 2009, 103, 330-340.	2.6	78
13	Vegetation turnover in a braided river: frequency and effectiveness of floods of different magnitude. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 542-558.	2.5	76
14	Multidecadal dynamics of alternate bars in the Alpine river. <i>Water Resources Research</i> , 2016, 52, 8938-8955.	4.2	71
15	Bed and bank evolution of bifurcating channels. <i>Water Resources Research</i> , 2005, 41, .	4.2	70
16	The response of braided planform configuration to flow variations, bed reworking and vegetation: the case of the Tagliamento River, Italy. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 572-582.	2.5	70
17	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. <i>Geomorphology</i> , 2013, 202, 74-85.	2.6	70
18	Wood recruitment and retention: The fate of eroded trees on a braided river explored using a combination of field and remotely-sensed data sources. <i>Geomorphology</i> , 2013, 180-181, 146-155.	2.6	66

#	ARTICLE	IF	CITATIONS
19	Interaction between migrating bars and bifurcations in gravel bed rivers. <i>Water Resources Research</i> , 2009, 45, .	4.2	63
20	Channelization of a large Alpine river: what is left of its original morphodynamics?. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1044-1062.	2.5	57
21	Life of a bifurcation in a gravelâ€bed braided river. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1327-1336.	2.5	54
22	Wood dispersal in braided streams: Results from physical modeling. <i>Water Resources Research</i> , 2013, 49, 7388-7400.	4.2	54
23	Width variations and mid-channel bar inception in meanders: River Bollin (UK). <i>Geomorphology</i> , 2010, 119, 1-8.	2.6	53
24	A flume experiment on wood storage and remobilization in braided river systems. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 804-813.	2.5	52
25	Six decades of changes in the riparian corridor of a Mediterranean river: a synthetic analysis based on historical data sources. <i>Ecohydrology</i> , 2013, 6, 536-553.	2.4	46
26	Feedbacks between the riparian Salicaceae and hydrogeomorphic processes: A quantitative review. <i>Earth-Science Reviews</i> , 2018, 176, 147-165.	9.1	43
27	Improving river hydromorphological assessment through better integration of riparian vegetation: Scientific evidence and guidelines. <i>Journal of Environmental Management</i> , 2021, 292, 112730.	7.8	38
28	The effect of lateral confinement on gravel bed river morphology. <i>Water Resources Research</i> , 2015, 51, 7145-7158.	4.2	37
29	River bank burrowing by invasive crayfish: Spatial distribution, biophysical controls and biogeomorphic significance. <i>Science of the Total Environment</i> , 2016, 569-570, 1190-1200.	8.0	33
30	Analysis of reachâ€scale elevation distribution in braided rivers: Definition of a new morphologic indicator and estimation of mean quantities. <i>Water Resources Research</i> , 2016, 52, 5951-5970.	4.2	29
31	How large is a river? Conceptualizing river landscape signatures and envelopes in four dimensions. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 313-325.	6.5	27
32	Multi-Temporal Image Analysis for Fluvial Morphological Characterization with Application to Albanian Rivers. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 314.	2.9	27
33	Life in turbulent flows: interactions between hydrodynamics and aquatic organisms in rivers. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1213.	6.5	25
34	After the peak water: the increasing influence of rock glaciers on alpine river systems. <i>Hydrological Processes</i> , 2019, 33, 2804-2823.	2.6	25
35	Understanding processes of island development on an island braided river over timescales from days to decades. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 624-640.	2.5	25
36	The role of vegetation and large wood on the topographic characteristics of braided river systems. <i>Geomorphology</i> , 2020, 367, 107299.	2.6	25

#	ARTICLE	IF	CITATIONS
37	Monitoring and predicting channel change in a free-evolving, small Alpine river: Ridanna Creek (North) Tj ETQq1 1 0,784314 rgBT /Overl	2.5	24
38	Implications of channel processes for juvenile fish habitats in Alpine rivers. <i>Aquatic Sciences</i> , 2009, 71, 338-349.	1.5	23
39	When Does Vegetation Establish on Gravel Bars? Observations and Modeling in the Alpine Rhine River. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	23
40	Evaluation of a numerical model's ability to predict bed load transport observed in braided river experiments. <i>Advances in Water Resources</i> , 2018, 115, 207-218.	3.8	21
41	Let's get connected: A new graph theory-based approach and toolbox for understanding braided river morphodynamics. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1296.	6.5	19
42	Numerical Modeling of Instream Wood Transport, Deposition, and Accumulation in Braided Morphologies Under Unsteady Conditions: Sensitivity and High-Resolution Quantitative Model Validation. <i>Water Resources Research</i> , 2020, 56, e2019WR026221.	4.2	19
43	Morphometric properties of alternate bars and water discharge: a laboratory investigation. <i>Earth Surface Dynamics</i> , 2020, 8, 789-808.	2.4	17
44	12.4 River Processes and Implications for Fluvial Ecogeomorphology: A European Perspective. , 2013, , 37-52.		16
45	Restoring a glacier-fed river: Past and present morphodynamics of a degraded channel in the Italian Alps. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 2804-2823.	2.5	15
46	Bed Load Variability and Morphology of Gravel Bed Rivers Subject to Unsteady Flow: A Laboratory Investigation. <i>Water Resources Research</i> , 2018, 54, 842-862.	4.2	14
47	Physical engineering of an island-braided river by two riparian tree species: Evidence from aerial images and airborne lidar. <i>River Research and Applications</i> , 2020, 36, 1183-1201.	1.7	13
48	Rethinking swimming performance tests for bottom-dwelling fish: the case of European glass eel ( <i>Anguilla anguilla</i> ). <i>Scientific Reports</i> , 2020, 10, 16416.	3.3	12
49	Extending the conceptual model of river island development to incorporate different tree species and environmental conditions. <i>River Research and Applications</i> , 2020, 36, 1730-1747.	1.7	12
50	Contrasting physical and chemical conditions of two rock glacier springs. <i>Hydrological Processes</i> , 2021, 35, e14159.	2.6	9
51	Capturing the spatiotemporal variability of bedload transport: A time-lapse imagery technique. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1140-1147.	2.5	8
52	Dynamics and ecology of wood in world rivers. <i>Geomorphology</i> , 2017, 279, 1-2.	2.6	8
53	Hydrokinetic Turbines in Yawed Conditions: Toward Synergistic Fluvial Installations. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	8
54	SMART Research: Toward Interdisciplinary River Science in Europe. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	6

#	ARTICLE	IF	CITATIONS
55	Rock glaciers and paraglacial features influence stream invertebrates in a deglaciating Alpine area. <i>Freshwater Biology</i> , 2021, 66, 535-548.	2.4	6
56	Dynamic riverine landscapes: the role of ecosystem engineers. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1701-1704.	2.5	5
57	Turbulence, instream wood and fish: Ecohydraulic interactions under field conditions. <i>Ecohydrology</i> , 2020, 13, e2211.	2.4	5
58	The impact of plants on fine sediment storage within the active channels of gravel-bed rivers: A preliminary assessment. <i>Hydrological Processes</i> , 2022, 36, .	2.6	5
59	6 Bifurcations in gravel-bed streams. <i>Developments in Earth Surface Processes</i> , 2007, 11, 133-159.	2.8	4
60	Wood in Fluvial Systems. , 2022, , 320-352.		4
61	Braiding Rivers: State of the Art and Future Challenges. <i>Eos</i> , 2014, 95, 381-381.	0.1	3
62	Management of vegetation encroachment by natural and induced channel avulsions: A physical model. <i>River Research and Applications</i> , 2019, 35, 1257.	1.7	3
63	Large Wood Dynamics Along the Tagliamento River, Italy: Insights from Field and Remote Sensing Investigations. , 2015, , 151-154.		2
64	Morphodynamics of alternate bars in the Alpine Rhine River: Methods for the applicability of mathematical models using fields observations. , 2014, , 1213-1220.		2
65	River restoration: advances in research and applications. Selected papers from the Fourth European Centre for River Restoration Conference, Venice, June 2008. <i>River Research and Applications</i> , 2009, 25, 499-500.	1.7	1
66	Experimental observations on channel bifurcations evolving to an equilibrium state. , 2006, , .		1
67	Bed load fluctuations and channel processes in a braided network laboratory model. , 2006, , .		1
68	Braided Pattern. , 2015, , 170-174.		0
69	River Processes and Implications for Fluvial Ecogeomorphology: A European Perspective. , 2013, , 367-381.		0