Guido Zolezzi

List of Publications by Year
in descending order

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64 papers	2,532 citations	186265 28 h-index	206112 48 g-index
69 all docs	69 docs citations	69 times ranked	2051 citing authors

#	Article	IF	Citations
1	Downstream and upstream influence in river meandering. Part 2. Planimetric development. Journal of Fluid Mechanics, 2001, 438, 183-211.	3.4	218
2	Downstream and upstream influence in river meandering. Part 2. Planimetric development. Journal of Fluid Mechanics, 2001, 438, 213-230.	3.4	154
3	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
4	Thermopeaking in Alpine streams: event characterization and time scales. Ecohydrology, 2011, 4, 564-576.	2.4	117
5	Free bars in rivers. Journal of Hydraulic Research/De Recherches Hydrauliques, 1999, 37, 759-775.	1.7	108
6	Assessing hydrological alterations at multiple temporal scales: Adige River, Italy. Water Resources Research, 2009, 45, .	4.2	101
7	Field assessment of noncontact stream gauging using portable surface velocity radars (SVR). Water Resources Research, 2016, 52, 1108-1126.	4.2	92
8	Numerical modelling of two-dimensional morphodynamics with applications to river bars and bifurcations. Advances in Water Resources, 2013, 52, 243-260.	3.8	86
9	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
10	Modeling morphodynamic processes in meandering rivers with spatial width variations. Reviews of Geophysics, 2012, 50, .	23.0	66
11	Advances and challenges in meandering channels research. Geomorphology, 2012, 163-164, 1-9.	2.6	64
12	Thermal wave dynamics in rivers affected by hydropeaking. Water Resources Research, 2010, 46, .	4.2	58
13	Automated extraction of meandering river morphodynamics from multitemporal remotely sensed data. Environmental Modelling and Software, 2018, 105, 171-186.	4.5	58
14	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
15	Ecoâ€hydraulic modelling of the interactions between hydropeaking and river morphology. Ecohydrology, 2016, 9, 421-437.	2.4	54
16	Width variations and mid-channel bar inception in meanders: River Bollin (UK). Geomorphology, 2010, 119, 1-8.	2.6	53
17	A simple procedure for the assessment of hydropeaking flow alterations applied to several European streams. Aquatic Sciences, 2015, 77, 639-653.	1.5	51
18	Modelling midâ€channel bars in meandering channels. Earth Surface Processes and Landforms, 2010, 35, 902-917.	2.5	49

#	Article	IF	Citations
19	Promoting sustainable human development in engineering: Assessment of online courses within continuing professional development strategies. Journal of Cleaner Production, 2018, 172, 4286-4302.	9.3	43
20	Biomorphodynamic modelling of inner bank advance in migrating meander bends. Advances in Water Resources, 2016, 93, 166-181.	3.8	42
21	Experimental observations of upstream overdeepening. Journal of Fluid Mechanics, 2005, 531, 191-219.	3.4	41
22	Biomorphodynamics of alternate bars in a channelized, regulated river: An integrated historical and modelling analysis. Earth Surface Processes and Landforms, 2018, 43, 1739-1756.	2.5	41
23	Responses of benthic invertebrates to repeated hydropeaking in semiâ€natural flume simulations. Ecohydrology, 2016, 9, 68-82.	2.4	36
24	Free instability of channel bifurcations and morphodynamic influence. Journal of Fluid Mechanics, 2016, 799, 476-504.	3.4	35
25	Hydropeaking in regulated rivers â€“ From process understanding to design of mitigation measures. Science of the Total Environment, 2017, 579, 22-26.	8.0	34
26	Reduced braiding of rivers in human-modified landscapes: Converging trajectories and diversity of causes. Earth-Science Reviews, 2019, 188, 291-311.	9.1	33
27	In situ measurements of fine sediment infiltration (FSI) in gravelâ€bed rivers with a hydropeaking flow regime. Earth Surface Processes and Landforms, 2019, 44, 433-448.	2.5	32
28	Bend theory of river meanders with spatial width variations. Journal of Fluid Mechanics, 2011, 681, 311-339.	3.4	31
29	Exploring the role of trees in the evolution of meander bends: The <scp>T</scp>agliamento <scp>R</scp>iver, <scp>I</scp>taly. Water Resources Research, 2017, 53, 5943-5962.	4.2	30
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	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
32	Characterization of subâ€daily thermal regime in alpine rivers: quantification of alterations induced by hydropeaking. Hydrological Processes, 2016, 30, 1052-1070.	2.6	26
33	Testing the River Continuum Concept with geostatistical stream-network models. Ecological Complexity, 2019, 39, 100773.	2.9	26
34	Free and forced morphodynamics of river bifurcations. Earth Surface Processes and Landforms, 2019, 44, 973-987.	2.5	26
35	Monitoring and predicting channel change in a free-evolving, small Alpine river: Ridanna Creek (North) Tj ETQq1 1 0.784314 rgBT /Ove	2.5	24
36	Morphodynamic regime of gravel bed, singleâ€thread meandering rivers. Journal of Geophysical Research, 2009, 114, .	3.3	23

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37	Effects of thermopeaking on the thermal response of alpine river systems to heatwaves. Science of the Total Environment, 2018, 612, 1266-1275.	8.0	23
38	Channel changes of the Adige River (Eastern Italian Alps) over the last 1000 years and identification of the historical fluvial corridor. Journal of Maps, 2018, 14, 680-691.	2.0	22
39	Eutrophication, Research and Management History of the Shallow YpacaraÃ-Lake (Paraguay). Sustainability, 2018, 10, 2426.	3.2	22
40	Multiscale structure of meanders. Geophysical Research Letters, 2016, 43, 3288-3297.	4.0	20
41	River bed evolution due to channel expansion: general behaviour and application to a case study (Kugart River, Kyrgyz Republic). River Research and Applications, 2008, 24, 1271-1287.	1.7	19
42	Assessing the impacts of water abstractions on river ecosystem services: an eco-hydraulic modelling approach. Environmental Impact Assessment Review, 2017, 63, 136-146.	9.2	18
43	Modelling white-water rafting suitability in a hydropower regulated Alpine River. Science of the Total Environment, 2017, 579, 1035-1049.	8.0	18
44	On the Design of an Intelligent Sensor Network for Flash Flood Monitoring, Diagnosis and Management in Urban Areas Position Paper. Procedia Computer Science, 2014, 32, 941-946.	2.0	16
45	River meander dynamics: developments in modelling and empirical analyses. Earth Surface Processes and Landforms, 2011, 36, 1550-1553.	2.5	15
46	Coastal vulnerability assessment: through regional to local downscaling of wave characteristics along the Bay of Lalzit (Albania). Natural Hazards and Earth System Sciences, 2019, 19, 287-298.	3.6	14
47	Google Earth as a data source for investigating river forms and processes: Discriminating river types using formâ€based process indicators. Earth Surface Processes and Landforms, 2020, 45, 331-344.	2.5	13
48	Combining Hydrologic Simulations and Streamâ€network Models to Reveal Flowâ€ecology Relationships in a Large Alpine Catchment. Water Resources Research, 2021, 57, e2020WR028496.	4.2	13
49	Urban gully erosion in subâ€Saharan Africa: A case study from Uganda. Land Degradation and Development, 2018, 29, 849-859.	3.9	12
50	WFD ecological status indicator shows poor correlation with flow parameters in a large Alpine catchment. Ecological Indicators, 2019, 98, 704-711.	6.3	11
51	Continuous wavelet characterization of the wavelengths and regularity of meandering rivers. Geomorphology, 2016, 252, 98-111.	2.6	10
52	Interaction between curvature-driven width oscillations and channel curvature in evolving meander bends. Journal of Fluid Mechanics, 2019, 876, 985-1017.	3.4	9
53	Habitat Indices for Rivers: Quantifying the Impact of Hydro-Morphological Alterations on the Fish Community. , 2015, , 357-360.		8
54	SMART Research: Toward Interdisciplinary River Science in Europe. Frontiers in Environmental Science, 2020, 8, .	3.3	6

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55	How much habitat does a river need? A spatially-explicit population dynamics model to assess ratios of ontogenetical habitat needs. Journal of Environmental Management, 2021, 286, 112100.	7.8	6
56	Development of a numerical model for braided river morphology and vegetation evolution with application to the Lower Waitaki River (Aotearoa â€“ New Zealand). Advances in Water Resources, 2022, 166, 104236.	3.8	6
57	Plant root and rhizome strength: Are there differences between and within species and rivers?. Earth Surface Processes and Landforms, 2019, 44, 389-392.	2.5	5
58	Implications of water resources management on the long-term regime of Lake Garda (Italy). Journal of Environmental Management, 2022, 301, 113893.	7.8	5
59	Prioritizing reaches for restoration in a regulated Alpine river: Locally driven versus hydroâ€morphologically based actions. River Research and Applications, 2021, 37, 17-32.	1.7	4
60	Introducing HyPeak: An international network on hydropeaking research, practice, and policy. River Research and Applications, 2023, 39, 283-291.	1.7	4
61	Hydroâ€Morphological Disturbance and Suitability for Temporary Agriculture of Riverine Islands in a Tropical Wandering River. Water Resources Research, 2022, 58, .	4.2	2
62	Effects of fine suspended sediment releases on benthic communities in artificial flumes. Houille Blanche, 2016, 102, 54-58.	0.3	1
63	Quantifying the ecological effects of water abstraction in Alpine streams through flume simulations. Ecohydrology, 2022, 15, .	2.4	1
64	River, Coastal and Estuarine Morphodynamics Selected papers from the 10th anniversary of the RCEM Symposium. Earth Surface Processes and Landforms, 2020, 45, 1311-1314.	2.5	0