

# Alessio Radice

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

520  
citations

567281

15  
h-index

677142

22  
g-index

39  
all docs

39  
docs citations

39  
times ranked

377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid transport measurements through image processing. <i>Experiments in Fluids</i> , 2006, 41, 721-734.	2.4	61
2	Lagrangian analysis of bed-load sediment motion: database contribution. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013, 51, 589-596.	1.7	33
3	Particle motion and diffusion at weak bed load: accounting for unsteadiness effects of entrainment and disentrainment. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 633-648.	1.7	33
4	On statistical properties of bed load sediment concentration. <i>Water Resources Research</i> , 2009, 45, .	4.2	32
5	Lagrangian and Eulerian Description of Bed Load Transport. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 384-408.	2.8	32
6	Double-average characteristics of sediment motion in one-dimensional bed load. <i>Acta Geophysica</i> , 2008, 56, 654-668.	2.0	26
7	Use of the Lorenz Curve to Quantify Statistical Nonuniformity of Sediment Transport Rate. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 320-326.	1.5	24
8	Analysis of the time-averaged properties of sediment motion in a local scour process. <i>Water Resources Research</i> , 2009, 45, .	4.2	24
9	Study of sediment motion in scour hole of a circular pier. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 44-51.	1.7	19
10	Scale-based statistical analysis of sediment fluxes. <i>Acta Geophysica</i> , 2012, 60, 1744-1777.	2.0	19
11	Roughening Elements as Abutment Scour Countermeasures. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	1.5	19
12	Generation of a Design Flood-Event Scenario for a Mountain River with Intense Sediment Transport. <i>Water (Switzerland)</i> , 2016, 8, 597.	2.7	19
13	On integrated sediment transport modelling for flash events in mountain environments. <i>Acta Geophysica</i> , 2012, 60, 191-213.	2.0	18
14	Active interactions between turbulence and bed load: Conceptual picture and experimental evidence. <i>Water Resources Research</i> , 2013, 49, 90-99.	4.2	18
15	A New Tool to Estimate Inundation Depths by Spatial Interpolation (RAPIDE): Design, Application and Impact on Quantitative Assessment of Flood Damages. <i>Water (Switzerland)</i> , 2018, 10, 1805.	2.7	17
16	Statistics and characteristic scales for bed load in a channel flow with sidewall effects. <i>Acta Geophysica</i> , 2010, 58, 1072-1093.	2.0	14
17	Event-scale pebble mobility observed by RFID tracking in a pre-Alpine stream: a field laboratory. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 535-547.	2.5	13
18	Sediment Kinematics in Abutment Scour. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 146-156.	1.5	12

#	ARTICLE	IF	CITATIONS
19	Cost-benefit analysis of flood mitigation measures: a case study employing high-performance hydraulic and damage modelling. <i>Natural Hazards</i> , 2021, 108, 3061-3084.	3.4	10
20	Local scour at a trapezoidal abutment: sediment motion pattern. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 250-262.	1.7	8
21	Live-Bed Pier Scour in a Covered Flow. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	8
22	Experimental Censorship of Bed Load Particle Motions and Bias Correction of the Associated Frequency Distributions. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 116-136.	2.8	8
23	Fluctuations and time scales for bed-load sediment motion over a smooth bed. <i>International Journal of Sediment Research</i> , 2015, 30, 321-327.	3.5	7
24	Image-based Lagrangian Particle Tracking in Bed-load Experiments. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	6
25	On Reasons of the Scatter of Literature Data for Bed-Load Particle Hops. <i>Water Resources Research</i> , 2019, 55, 1698-1706.	4.2	6
26	On the Relationship between Experimental and Numerical Modelling of Gravel-Bed Channel Aggradation. <i>Hydrology</i> , 2019, 6, 9.	3.0	5
27	Multicamera, Multimethod Measurements for Hydromorphologic Laboratory Experiments. <i>Geosciences (Switzerland)</i> , 2018, 8, 172.	2.2	4
28	Local scour at a complex pier with inclined columns footed on capped piles: effect of the pile arrangement and of the cap thickness and elevation. <i>ISH Journal of Hydraulic Engineering</i> , 2019, , 1-10.	2.1	4
29	Flood Mitigation Measure and Water Storage in East Africa: An Analysis for the Rio Muaguide, Mozambique. <i>Hydrology</i> , 2021, 8, 92.	3.0	3
30	Celerity and Height of Aggradation Fronts in Gravel-Bed Laboratory Channel. <i>Journal of Hydraulic Engineering</i> , 2021, 147, 04021034.	1.5	3
31	On how defining and measuring a channel bed elevation impacts key quantities in sediment overloading with supercritical flow. <i>Acta Geophysica</i> , 2022, 70, 2511-2528.	2.0	3
32	Semi-analytical model for temporal clear-water scour at prototype piers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 408-411.	1.7	2
33	An Analysis of Entrainment and Deposition Rate Fluctuations in Weak Bed Load Transport. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2016, , 333-342.	0.2	2
34	On experimental censorship of particle hops in bed-load transport. <i>E3S Web of Conferences</i> , 2018, 40, 05054.	0.5	2
35	A Comparison Between Machine Learning and Functional Geostatistics Approaches for Data-Driven Analyses of Sediment Transport in a Pre-Alpine Stream. <i>Mathematical Geosciences</i> , 2022, 54, 467-506.	2.4	2
36	Discussion of "Protecting Vertical-Wall Abutments with Riprap Mattresses" by A. H. Cardoso and C. M. S. Fael. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 848-849.	1.5	1

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37	Discussion of "Recommendations for Teaching a Successful Design-Based Course: Hydraulic Structure Design" by B. P. Tullis and S. L. Barfuss. <i>Journal of Hydraulic Engineering</i> , 2021, 147, 07021001.	1.5	1
38	An experimental investigation of sediment kinematics and multi-scale propagation for laboratory bed-load dunes. <i>Sedimentology</i> , 2021, 68, 3476-3493.	3.1	1
39	Using a Bed Sill as a Countermeasure for Clear-Water Scour at a Complex Pier with Inclined Columns Footed on Capped Piles. <i>Hydrology</i> , 2022, 9, 65.	3.0	1