Francesco Ballio

List of Publications by Year
in descending order

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59 papers	1,376 citations	304602 22 h-index	360920 35 g-index
64 all docs	64 docs citations	64 times ranked	1362 citing authors

#	Article	IF	Citations
1	Convergence assessment of numerical Monte Carlo simulations in groundwater hydrology. Water Resources Research, 2004, 40, .	1.7	133
2	Assessing multifaceted vulnerability and resilience in order to design risk-mitigation strategies. Natural Hazards, 2012, 64, 2057-2082.	1.6	108
3	Aquatic interfaces: a hydrodynamic and ecological perspective. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 744-758.	0.7	73
4	Ex post damage assessment: an Italian experience. Natural Hazards and Earth System Sciences, 2014, 14, 901-916.	1.5	72
5	Solid transport measurements through image processing. Experiments in Fluids, 2006, 41, 721-734.	1.1	61
6	Constriction Effects in Clear-Water Scour at Abutments. Journal of Hydraulic Engineering, 2009, 135, 140-145.	0.7	60
7	Spatially Averaged Flows over Mobile Rough Beds: Definitions, Averaging Theorems, and Conservation Equations. Journal of Hydraulic Engineering, 2013, 139, 803-811.	0.7	57
8	Three-dimensional analysis of the unidirectional oscillatory flow around a circular cylinder at low Keuleganâ€“Carpenter and eta numbers. Journal of Fluid Mechanics, 2004, 520, 157-186.	1.4	45
9	Are flood damage models converging to â€œrealityâ€? Lessons learnt from a blind test. Natural Hazards and Earth System Sciences, 2020, 20, 2997-3017.	1.5	38
10	On the modeling of significance for flood damage assessment. International Journal of Disaster Risk Reduction, 2014, 10, 381-391.	1.8	37
11	Lagrangian analysis of bed-load sediment motion: database contribution. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 589-596.	0.7	33
12	Particle motion and diffusion at weak bed load: accounting for unsteadiness effects of entrainment and disentrainment. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 633-648.	0.7	33
13	On statistical properties of bed load sediment concentration. Water Resources Research, 2009, 45, .	1.7	32
14	Modelling the benefits of flood emergency management measures in reducing damages: a case study on Sondrio, Italy. Natural Hazards and Earth System Sciences, 2013, 13, 1913-1927.	1.5	32
15	Lagrangian and Eulerian Description of Bed Load Transport. Journal of Geophysical Research F: Earth Surface, 2018, 123, 384-408.	1.0	32
16	A non-touch sensor for local scour measurements. Journal of Hydraulic Research/De Recherches Hydrauliques, 2003, 41, 105-108.	0.7	30
17	Temporal Scales for Live-Bed Scour at Abutments. Journal of Hydraulic Engineering, 2010, 136, 395-402.	0.7	29
18	On the definition of solid discharge in hydro-environment research and applications. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 173-184.	0.7	28

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19	Time-related capture zones for radial flow in two dimensional randomly heterogeneous media. Stochastic Environmental Research and Risk Assessment, 1999, 13, 217-230.	1.9	27
20	Double-average characteristics of sediment motion in one-dimensional bed load. Acta Geophysica, 2008, 56, 654-668.	1.0	26
21	Double-averaging turbulence characteristics in seeping rough-bed streams. Journal of Geophysical Research, 2011, 116, .	3.3	25
22	Flood damage: a model for consistent, complete and multipurposeÂscenarios. Natural Hazards and Earth System Sciences, 2016, 16, 2783-2797.	1.5	25
23	AGRIDE-c, a conceptual model for the estimation of flood damage to crops: development and implementation. Natural Hazards and Earth System Sciences, 2019, 19, 2565-2582.	1.5	23
24	Turbulent Stresses at the Bottom Surface near an Abutment: Laboratory-Scale Numerical Experiment. Journal of Hydraulic Engineering, 2009, 135, 106-117.	0.7	21
25	Title is missing!. Transport in Porous Media, 2002, 49, 41-58.	1.2	19
26	Scale-based statistical analysis of sediment fluxes. Acta Geophysica, 2012, 60, 1744-1777.	1.0	19
27	Active interactions between turbulence and bed load: Conceptual picture and experimental evidence. Water Resources Research, 2013, 49, 90-99.	1.7	18
28	The RISPOSTA procedure for the collection, storage and analysis of high quality, consistent and reliable damage data in the aftermath of floods. Journal of Flood Risk Management, 2018, 11, .	1.6	17
29	Bless: A fiber optic sedimeter. Flow Measurement and Instrumentation, 2011, 22, 447-455.	1.0	16
30	Anisotropic mesh adaptation driven by a recoveryâ€based error estimator for shallow water flow modeling. International Journal for Numerical Methods in Fluids, 2012, 70, 269-299.	0.9	16
31	Restoration of biogeomorphic systems by creating windows of opportunity to support natural establishment processes. Ecological Applications, 2021, 31, e02333.	1.8	16
32	Flood damage functions based on a single physics- and data-based impact parameter that jointly accounts for water depth and velocity. Journal of Hydrology, 2022, 607, 127485.	2.3	16
33	Statistics and characteristic scales for bed load in a channel flow with sidewall effects. Acta Geophysica, 2010, 58, 1072-1093.	1.0	14
34	Management of flood hazard via hydroâ€morphological river modelling. The case of the <scp>M</scp>allero in <scp>I</scp>talian <scp>A</scp>lps. Journal of Flood Risk Management, 2013, 6, 197-209.	1.6	14
35	Sediment Kinematics in Abutment Scour. Journal of Hydraulic Engineering, 2008, 134, 146-156.	0.7	12
36	Sediment transport mechanics. Acta Geophysica, 2012, 60, 1493-1499.	1.0	12

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37	Turbulence around a scoured bridge abutment. Journal of Turbulence, 2011, 12, N3.	0.5	10
38	Actions monitoring as an alternative to structural rehabilitation: Case study of a river bridge. Structural Control and Health Monitoring, 2018, 25, e2250.	1.9	10
39	Local scour at a trapezoidal abutment: sediment motion pattern. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 250-262.	0.7	8
40	A spaceâ€“time adaptation scheme for unsteady shallow water problems. Mathematics and Computers in Simulation, 2012, 82, 2929-2950.	2.4	8
41	Experimental Censorship of Bed Load Particle Motions and Bias Correction of the Associated Frequency Distributions. Journal of Geophysical Research F: Earth Surface, 2019, 124, 116-136.	1.0	8
42	Fluctuations and time scales for bed-load sediment motion over a smooth bed. International Journal of Sediment Research, 2015, 30, 321-327.	1.8	7
43	Hydraulic Safety Evaluation and Dynamic Investigations of Baghetto Bridge in Italy. Infrastructures, 2022, 7, 53.	1.4	7
44	Image-based Lagrangian Particle Tracking in Bed-load Experiments. Journal of Visualized Experiments, 2017, , .	0.2	6
45	On Reasons of the Scatter of Literature Data for Bedâ€Load Particle Hops. Water Resources Research, 2019, 55, 1698-1706.	1.7	6
46	Numerical modelling-based sensitivity analysis of fluvial morphodynamics. Environmental Modelling and Software, 2021, 135, 104903.	1.9	5
47	A hydraulic monitoring system on a bridge over the River Esino, Italy. Journal of Civil Structural Health Monitoring, 2016, 6, 377-384.	2.0	4
48	Invited perspectives: When research meets practice: challenges, opportunities, and suggestions from the implementation of the Floods Directive in the largest Italian river basin. Natural Hazards and Earth System Sciences, 2022, 22, 1819-1823.	1.5	4
49	A 3D investigation of the dynamic loads over an array of in-line cylinders at low KC and Re numbers. Ocean Engineering, 2004, 31, 1503-1535.	1.9	3
50	Brief Communication: Simple-INSYDE, development of a new tool for flood damage evaluation from an existing synthetic model. Natural Hazards and Earth System Sciences, 2020, 20, 2937-2941.	1.5	3
51	Feasibility analysis of a movable bridge compensating for clearance deficit during floods. Engineering Structures, 2010, 32, 3338-3343.	2.6	2
52	An Analysis of Entrainment and Deposition Rate Fluctuations in Weak Bed Load Transport. GeoPlanet: Earth and Planetary Sciences, 2016, , 333-342.	0.2	2
53	On experimental censorship of particle hops in bed-load transport. E3S Web of Conferences, 2018, 40, 05054.	0.2	2
54	Use of Sar Satellite Data in Bridge Monitoring with Application to Urban Areas. Lecture Notes in Civil Engineering, 2021, , 935-955.	0.3	2

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55	Comparing post-event and pre-event damage assessment: Information gaps and lessons learnt. E3S Web of Conferences, 2016, 7, 05011.	0.2	1
56	Post-flood damage data: requirements for disaster forensic investigation. E3S Web of Conferences, 2016, 7, 16004.	0.2	1
57	Discussion of â€œRecommendations for Teaching a Successful Design-Based Course: Hydraulic Structure Designâ€•by B. P. Tullis and S. L. Barfuss. Journal of Hydraulic Engineering, 2021, 147, 07021001.	0.7	1
58	Local and Contraction Scour at Bridge Abutments. , 2000, , 1.		0
59	Bridge pier scour measurement by means of Bragg grating arrays. EPJ Web of Conferences, 2010, 6, 34004.	0.1	0