Annunziato Siviglia

List of Publications by Year
in descending order

54	1,702	304743	289244
papers	citations	22 h-index	40 g-index

63	63	63	1468
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A splitting scheme for the coupled Saint-Venant-Exner model. Advances in Water Resources, 2022, 159, 104062.	3.8	6
2	Satellite Analyses Unravel the Multi-Decadal Impact of Dam Management on Tropical Floodplain Vegetation. Frontiers in Environmental Science, 2022, 10, .	3.3	3
3	A fluxâ€vector splitting scheme for the shallow water equations extended to highâ€order on unstructured meshes. International Journal for Numerical Methods in Fluids, 2022, 94, 1679-1705.	1.6	3
4	Enhancing an unsupervised clustering algorithm with a spatial contiguity constraint for river habitat analysis. Ecohydrology, 2021, 14, e2285.	2.4	7
5	Unaccounted CO ₂ leaks downstream of a large tropical hydroelectric reservoir. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
6	basement v3: A modular freeware for river process modelling over multiple computational backends. Environmental Modelling and Software, 2021, 143, 105102.	4.5	20
7	A model study of the combined effect of above and below ground plant traits on the ecomorphodynamics of gravel bars. Scientific Reports, 2020, 10, 17062.	3.3	10
8	Bounds for Wave Speeds in the Riemann Problem: Direct Theoretical Estimates. Computers and Fluids, 2020, 209, 104640.	2.5	20
9	High performance computing in river modelling:A novel two-dimensional software for river hydro- and morphodynamic simulations. , 2020, , 1401-1408.		1
10	When Does Vegetation Establish on Gravel Bars? Observations and Modeling in the Alpine Rhine River. Frontiers in Environmental Science, 2019, 7, .	3.3	23
11	A regularization strategy for modeling mixed-sediment river morphodynamics. Advances in Water Resources, 2019, 127, 291-309.	3.8	9
12	Exploring and Quantifying River Thermal Response to Heatwaves. Water (Switzerland), 2018, 10, 1098.	2.7	16
13	Mathematical study of linear morphodynamic acceleration and derivation of the MASSPEED approach. Advances in Water Resources, 2018, 117, 40-52.	3.8	15
14	Development of Probabilistic Dam Breach Model Using Bayesian Inference. Water Resources Research, 2018, 54, 4376-4400.	4.2	17
15	Numerical Modeling of Plant Root Controls on Gravel Bed River Morphodynamics. Geophysical Research Letters, 2018, 45, 9013-9023.	4.0	24
16	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
17	Modelling white-water rafting suitability in a hydropower regulated Alpine River. Science of the Total Environment, 2017, 579, 1035-1049.	8.0	18
18	Ecoâ€hydraulic modelling of the interactions between hydropeaking and river morphology. Ecohydrology, 2016, 9, 421-437.	2.4	54

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19	Prediction of river water temperature: a comparison between a new family of hybrid models and statistical approaches. Hydrological Processes, 2016, 30, 3901-3917.	2.6	78
20	Characterization of subâ€daily thermal regime in alpine rivers: quantification of alterations induced by hydropeaking. Hydrological Processes, 2016, 30, 1052-1070.	2.6	26
21	Pollutant transport by shallow water equations on unstructured meshes: Hyperbolization of the model and numerical solution via a novel flux splitting scheme. Journal of Computational Physics, 2016, 321, 1-20.	3.8	24
22	Numerical modelling of river morphodynamics: Latest developments and remaining challenges. Advances in Water Resources, 2016, 93, 1-3.	3.8	29
23	An accurate numerical solution to the Saint-Venant-Hirano model for mixed-sediment morphodynamics in rivers. Advances in Water Resources, 2016, 93, 39-61.	3.8	25
24	A simple procedure for the assessment of hydropeaking flow alterations applied to several European streams. Aquatic Sciences, 2015, 77, 639-653.	1.5	51
25	Habitat Indices for Rivers: Quantifying the Impact of Hydro-Morphological Alterations on the Fish Community. , 2015, , 357-360.		8
26	Multiple states for flow through a collapsible tube with discontinuities. Journal of Fluid Mechanics, 2014, 761, 105-122.	3.4	9
27	Mathematical analysis of the <scp>S</scp>aintâ€<scp>V</scp>enantâ€<scp>H</scp>irano model for mixedâ€sediment morphodynamics. Water Resources Research, 2014, 50, 7563-7589.	4.2	35
28	Modeling vegetation controls on fluvial morphological trajectories. Geophysical Research Letters, 2014, 41, 7167-7175.	4.0	119
29	Flushing of coarse and graded sedimentsâ€"a case study using reduced scale model. , 2014, , 151-158.		2
30	Multiple drift responses of benthic invertebrates to interacting hydropeaking and thermopeaking waves. Ecohydrology, 2013, 6, 511-522.	2.4	90
31	Steady analysis of transcritical flows in collapsible tubes with discontinuous mechanical properties: implications for arteries and veins. Journal of Fluid Mechanics, 2013, 736, 195-215.	3.4	15
32	Numerical modelling of two-dimensional morphodynamics with applications to river bars and bifurcations. Advances in Water Resources, 2013, 52, 243-260.	3.8	86
33	Flow in Collapsible Tubes with Discontinuous Mechanical Properties: Mathematical Model and Exact Solutions. Communications in Computational Physics, 2013, 13, 361-385.	1.7	67
34	Simplified blood flow model with discontinuous vessel properties: Analysis and exact solutions. Modeling, Simulation and Applications, 2012, , 19-39.	1.3	3
35	A Finite Volume Upwind-Biased Centred Scheme for Hyperbolic Systems of Conservation Laws: Application to Shallow Water Equations. Communications in Computational Physics, 2012, 12, 1183-1214.	1.7	11
36	RESPONSES OF BENTHIC INVERTEBRATES TO ABRUPT CHANGES OF TEMPERATURE IN FLUME SIMULATIONS. River Research and Applications, 2012, 28, 678-691.	1.7	51

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37	ASSESSING IMPACTS OF DAM OPERATIONSâ€"INTERDISCIPLINARY APPROACHES FOR SUSTAINABLE REGULATED RIVER MANAGEMENT. River Research and Applications, 2012, 28, 675-677.	1.7	17
38	Thermopeaking in Alpine streams: event characterization and time scales. Ecohydrology, 2011, 4, 564-576.	2.4	117
39	Upwind-biased FORCE schemes with applications to free-surface shallow flows. Journal of Computational Physics, 2010, 229, 6362-6380.	3.8	15
40	Well-balanced high-order centered schemes on unstructured meshes for shallow water equations with fixed and mobile bed. Advances in Water Resources, 2010, 33, 291-303.	3.8	81
41	Thermal wave dynamics in rivers affected by hydropeaking. Water Resources Research, 2010, 46, .	4.2	58
42	Well-balanced high-order centred schemes for non-conservative hyperbolic systems. Applications to shallow water equations with fixed and mobile bed. Advances in Water Resources, 2009, 32, 834-844.	3.8	112
43	WAF Method and Splitting Procedure for Simulating Hydro- and Thermal-Peaking Waves in Open-Channel Flows. Journal of Hydraulic Engineering, 2009, 135, 651-662.	1.5	15
44	Case Study: Design of Flood Control Systems on the Vara River by Numerical and Physical Modeling. Journal of Hydraulic Engineering, 2009, 135, 1063-1072.	1.5	11
45	Assessing hydrological alterations at multiple temporal scales: Adige River, Italy. Water Resources Research, 2009, 45, .	4.2	101
46	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
47	Quasi-Conservative Formulation of the One-Dimensional Saint-Venantâ€"Exner Model. Journal of Hydraulic Engineering, 2008, 134, 1521-1526.	1.5	9
48	Reply to comment by Cao and Hu on â€œLong waves in erodible channels and morphodynamic influenceâ€• Water Resources Research, 2008, 44, .	4.2	2
49	Mathematical modelling of silting in the Kugart River, Kyrgyzstan. , 2007, , 1179-1186.		1
50	Quasi-two-dimensional enhancement of the De Saint Venant-Exner coupled model for unsteady simulations in natural channels. , 2007, , 897-904.		0
51	Long waves in erodible channels and morphodynamic influence. Water Resources Research, 2006, 42, .	4.2	65
52	Flood control of the Vara River (North-western Italy). , 2006, , .		0
53	Effect of bottom curvature on mudflow dynamics: Theory and experiments. Water Resources Research, 2005, 41, .	4.2	16
54	PRICE: primitive centred schemes for hyperbolic systems. International Journal for Numerical Methods in Fluids, 2003, 42, 1263-1291.	1.6	31