

Annunziato Siviglia

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,702
citations

304743

22
h-index

289244

40
g-index

63
all docs

63
docs citations

63
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling vegetation controls on fluvial morphological trajectories. <i>Geophysical Research Letters</i> , 2014, 41, 7167-7175.	4.0	119
2	Thermopeak in Alpine streams: event characterization and time scales. <i>Ecohydrology</i> , 2011, 4, 564-576.	2.4	117
3	Well-balanced high-order centred schemes for non-conservative hyperbolic systems. Applications to shallow water equations with fixed and mobile bed. <i>Advances in Water Resources</i> , 2009, 32, 834-844.	3.8	112
4	Assessing hydrological alterations at multiple temporal scales: Adige River, Italy. <i>Water Resources Research</i> , 2009, 45, .	4.2	101
5	Multiple drift responses of benthic invertebrates to interacting hydropeaking and thermopeak waves. <i>Ecohydrology</i> , 2013, 6, 511-522.	2.4	90
6	Numerical modelling of two-dimensional morphodynamics with applications to river bars and bifurcations. <i>Advances in Water Resources</i> , 2013, 52, 243-260.	3.8	86
7	Well-balanced high-order centered schemes on unstructured meshes for shallow water equations with fixed and mobile bed. <i>Advances in Water Resources</i> , 2010, 33, 291-303.	3.8	81
8	Prediction of river water temperature: a comparison between a new family of hybrid models and statistical approaches. <i>Hydrological Processes</i> , 2016, 30, 3901-3917.	2.6	78
9	Flow in Collapsible Tubes with Discontinuous Mechanical Properties: Mathematical Model and Exact Solutions. <i>Communications in Computational Physics</i> , 2013, 13, 361-385.	1.7	67
10	Long waves in erodible channels and morphodynamic influence. <i>Water Resources Research</i> , 2006, 42, .	4.2	65
11	Thermal wave dynamics in rivers affected by hydropeaking. <i>Water Resources Research</i> , 2010, 46, .	4.2	58
12	Eco-hydraulic modelling of the interactions between hydropeaking and river morphology. <i>Ecohydrology</i> , 2016, 9, 421-437.	2.4	54
13	RESPONSES OF BENTHIC INVERTEBRATES TO ABRUPT CHANGES OF TEMPERATURE IN FLUME SIMULATIONS. <i>River Research and Applications</i> , 2012, 28, 678-691.	1.7	51
14	A simple procedure for the assessment of hydropeaking flow alterations applied to several European streams. <i>Aquatic Sciences</i> , 2015, 77, 639-653.	1.5	51
15	Mathematical analysis of the $S \sim V \sim H$ irano model for mixed sediment morphodynamics. <i>Water Resources Research</i> , 2014, 50, 7563-7589.	4.2	35
16	Hydropeaking in regulated rivers – From process understanding to design of mitigation measures. <i>Science of the Total Environment</i> , 2017, 579, 22-26.	8.0	34
17	PRICE: primitive centred schemes for hyperbolic systems. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 42, 1263-1291.	1.6	31
18	Numerical modelling of river morphodynamics: Latest developments and remaining challenges. <i>Advances in Water Resources</i> , 2016, 93, 1-3.	3.8	29

#	ARTICLE	IF	CITATIONS
19	Characterization of sub-daily thermal regime in alpine rivers: quantification of alterations induced by hydropeaking. <i>Hydrological Processes</i> , 2016, 30, 1052-1070.	2.6	26
20	An accurate numerical solution to the Saint-Venant-Hirano model for mixed-sediment morphodynamics in rivers. <i>Advances in Water Resources</i> , 2016, 93, 39-61.	3.8	25
21	Pollutant transport by shallow water equations on unstructured meshes: Hyperbolization of the model and numerical solution via a novel flux splitting scheme. <i>Journal of Computational Physics</i> , 2016, 321, 1-20.	3.8	24
22	Numerical Modeling of Plant Root Controls on Gravel Bed River Morphodynamics. <i>Geophysical Research Letters</i> , 2018, 45, 9013-9023.	4.0	24
23	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
24	Unaccounted CO ₂ leaks downstream of a large tropical hydroelectric reservoir. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	22
25	Bounds for Wave Speeds in the Riemann Problem: Direct Theoretical Estimates. <i>Computers and Fluids</i> , 2020, 209, 104640.	2.5	20
26	basement v3: A modular freeware for river process modelling over multiple computational backends. <i>Environmental Modelling and Software</i> , 2021, 143, 105102.	4.5	20
27	River bed evolution due to channel expansion: general behaviour and application to a case study (Kugart River, Kyrgyz Republic). <i>River Research and Applications</i> , 2008, 24, 1271-1287.	1.7	19
28	Modelling white-water rafting suitability in a hydropower regulated Alpine River. <i>Science of the Total Environment</i> , 2017, 579, 1035-1049.	8.0	18
29	ASSESSING IMPACTS OF DAM OPERATIONS—INTERDISCIPLINARY APPROACHES FOR SUSTAINABLE REGULATED RIVER MANAGEMENT. <i>River Research and Applications</i> , 2012, 28, 675-677.	1.7	17
30	Development of Probabilistic Dam Breach Model Using Bayesian Inference. <i>Water Resources Research</i> , 2018, 54, 4376-4400.	4.2	17
31	Effect of bottom curvature on mudflow dynamics: Theory and experiments. <i>Water Resources Research</i> , 2005, 41, .	4.2	16
32	Exploring and Quantifying River Thermal Response to Heatwaves. <i>Water (Switzerland)</i> , 2018, 10, 1098.	2.7	16
33	WAF Method and Splitting Procedure for Simulating Hydro- and Thermal-Peaking Waves in Open-Channel Flows. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 651-662.	1.5	15
34	Upwind-biased FORCE schemes with applications to free-surface shallow flows. <i>Journal of Computational Physics</i> , 2010, 229, 6362-6380.	3.8	15
35	Steady analysis of transcritical flows in collapsible tubes with discontinuous mechanical properties: implications for arteries and veins. <i>Journal of Fluid Mechanics</i> , 2013, 736, 195-215.	3.4	15
36	Mathematical study of linear morphodynamic acceleration and derivation of the MASSPEED approach. <i>Advances in Water Resources</i> , 2018, 117, 40-52.	3.8	15

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37	Case Study: Design of Flood Control Systems on the Vara River by Numerical and Physical Modeling. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 1063-1072.	1.5	11
38	A Finite Volume Upwind-Biased Centred Scheme for Hyperbolic Systems of Conservation Laws: Application to Shallow Water Equations. <i>Communications in Computational Physics</i> , 2012, 12, 1183-1214.	1.7	11
39	A model study of the combined effect of above and below ground plant traits on the ecomorphodynamics of gravel bars. <i>Scientific Reports</i> , 2020, 10, 17062.	3.3	10
40	Quasi-Conservative Formulation of the One-Dimensional Saint-Venant-Exner Model. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1521-1526.	1.5	9
41	Multiple states for flow through a collapsible tube with discontinuities. <i>Journal of Fluid Mechanics</i> , 2014, 761, 105-122.	3.4	9
42	A regularization strategy for modeling mixed-sediment river morphodynamics. <i>Advances in Water Resources</i> , 2019, 127, 291-309.	3.8	9
43	Habitat Indices for Rivers: Quantifying the Impact of Hydro-Morphological Alterations on the Fish Community. , 2015, , 357-360.		8
44	Enhancing an unsupervised clustering algorithm with a spatial contiguity constraint for river habitat analysis. <i>Ecohydrology</i> , 2021, 14, e2285.	2.4	7
45	A splitting scheme for the coupled Saint-Venant-Exner model. <i>Advances in Water Resources</i> , 2022, 159, 104062.	3.8	6
46	Simplified blood flow model with discontinuous vessel properties: Analysis and exact solutions. <i>Modeling, Simulation and Applications</i> , 2012, , 19-39.	1.3	3
47	Satellite Analyses Unravel the Multi-Decadal Impact of Dam Management on Tropical Floodplain Vegetation. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	3
48	A flux-vector splitting scheme for the shallow water equations extended to high-order on unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2022, 94, 1679-1705.	1.6	3
49	Reply to comment by Cao and Hu on "Long waves in erodible channels and morphodynamic influence". <i>Water Resources Research</i> , 2008, 44, .	4.2	2
50	Flushing of coarse and graded sediments—a case study using reduced scale model. , 2014, , 151-158.		2
51	Mathematical modelling of silting in the Kugart River, Kyrgyzstan. , 2007, , 1179-1186.		1
52	High performance computing in river modelling:A novel two-dimensional software for river hydro- and morphodynamic simulations. , 2020, , 1401-1408.		1
53	Flood control of the Vara River (North-western Italy). , 2006, , .		0
54	Quasi-two-dimensional enhancement of the De Saint Venant-Exner coupled model for unsteady simulations in natural channels. , 2007, , 897-904.		0