

Roberto Revelli

List of Publications by Year in descending order

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57
papers

2,298
citations

279798

23
h-index

214800

47
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all docs

62
docs citations

62
times ranked

2158
citing authors

#	ARTICLE	IF	CITATIONS
1	The Very Low Head Turbine for hydropower generation in existing hydraulic infrastructures: State of the art and future challenges. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101924.	2.7	6
2	Optimal design process of crossflow Banki turbines: Literature review and novel expeditious equations. <i>Ocean Engineering</i> , 2022, 257, 111582.	4.3	5
3	Experimental Analysis of Effect of Canal Geometry and Water Levels on Rotary Hydrostatic Pressure Machine. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	6
4	A Scoring Matrix Method for Integrated Evaluation of Water-Related Ecosystem Services Provided by Urban Parks. <i>Environmental Management</i> , 2020, 66, 756-769.	2.7	7
5	Performance Optimization of Overshot Water Wheels at High Rotational Speeds for Hydropower Applications. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	7
6	Functional Analysis of Piedmont (Italy) Ancient Water Mills Aimed at Their Recovery or Reconversion. <i>Machines</i> , 2019, 7, 32.	2.2	12
7	Power Transmission and Mechanisms of an Old Water Mill. <i>Mechanisms and Machine Science</i> , 2019, , 29-37.	0.5	1
8	Ecohydrology of Urban Ecosystems. , 2019, , 533-571.		3
9	Ecohydrological model for the quantification of ecosystem services provided by urban street trees. <i>Urban Ecosystems</i> , 2018, 21, 489-504.	2.4	25
10	Gravity water wheels as a micro hydropower energy source: A review based on historic data, design methods, efficiencies and modern optimizations. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 97, 414-427.	16.4	74
11	A dynamical systems framework for crop models: Toward optimal fertilization and irrigation strategies under climatic variability. <i>Ecological Modelling</i> , 2017, 365, 80-92.	2.5	22
12	Hydraulic Behavior and Performance of Breastshot Water Wheels for Different Numbers of Blades. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	20
13	CFD simulations to optimize the blade design of water wheels. <i>Drinking Water Engineering and Science</i> , 2017, 10, 27-32.	0.8	26
14	Experimental and dimensional analysis of a breastshot water wheel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 473-479.	1.7	10
15	Performance characteristics, power losses and mechanical power estimation for a breastshot water wheel. <i>Energy</i> , 2015, 87, 315-325.	8.8	43
16	Groundwater impact on methane emissions from flooded paddy fields. <i>Advances in Water Resources</i> , 2015, 83, 340-350.	3.8	7
17	Output power and power losses estimation for an overshot water wheel. <i>Renewable Energy</i> , 2015, 83, 979-987.	8.9	36
18	Characterization of alum floc in water treatment by image analysis and modeling. <i>Cogent Engineering</i> , 2014, 1, 944767.	2.2	10

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19	Ecohydrology of street trees: design and irrigation requirements for sustainable water use. <i>Ecohydrology</i> , 2014, 7, 508-523.	2.4	45
20	Decreasing of methanogenic activity in paddy fields via lowering ponding water temperature: A modeling investigation. <i>Soil Biology and Biochemistry</i> , 2014, 75, 211-222.	8.8	6
21	Hyporheic flow and transport processes: Mechanisms, models, and biogeochemical implications. <i>Reviews of Geophysics</i> , 2014, 52, 603-679.	23.0	642
22	Community Detection as a Tool for District Metered Areas Identification. <i>Procedia Engineering</i> , 2014, 70, 1518-1523.	1.2	9
23	The weight of water. <i>Physics Today</i> , 2014, 67, 41-46.	0.3	4
24	Modeling the Fate of Disinfection By-products in Water Distribution Systems. <i>Procedia Engineering</i> , 2014, 89, 255-261.	1.2	2
25	Role of water flow in modeling methane emissions from flooded paddy soils. <i>Advances in Water Resources</i> , 2013, 52, 261-274.	3.8	12
26	Recovering the Release History of a Pollutant Intrusion into a Water Supply System through a Geostatistical Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 418-425.	2.6	3
27	Community detection as a tool for complex pipe network clustering. <i>Europhysics Letters</i> , 2013, 103, 48001.	2.0	25
28	The impacts of increasing current velocity on the drift of <i>Simulium monticola</i> (Diptera: Simuliidae): a laboratory approach. <i>Italian Journal of Zoology</i> , 2013, 80, 443-448.	0.6	11
29	Modeling hyporheic exchange with unsteady stream discharge and bedform dynamics. <i>Water Resources Research</i> , 2013, 49, 4089-4099.	4.2	39
30	Small-scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. <i>Geophysical Research Letters</i> , 2013, 40, 1118-1122.	4.0	48
31	Nutrient cycling in bedform induced hyporheic zones. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 47-61.	3.9	191
32	Water and solute exchange through flat streambeds induced by large turbulent eddies. <i>Journal of Hydrology</i> , 2011, 402, 290-296.	5.4	31
33	Generalized collocation method for linear and nonlinear convection-diffusion models. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 589-593.	1.9	1
34	Effect of streamflow stochasticity on bedform-driven hyporheic exchange. <i>Advances in Water Resources</i> , 2010, 33, 1367-1374.	3.8	35
35	A linear model for the coupled surface-subsurface flow in a meandering stream. <i>Water Resources Research</i> , 2010, 46, .	4.2	34
36	Quantifying the impact of groundwater discharge on the surface-subsurface exchange. <i>Hydrological Processes</i> , 2009, 23, 2108-2116.	2.6	60

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37	Numerical model application for the restoration of the Racconigi Royal Park (CN, Italy). <i>Journal of Cultural Heritage</i> , 2009, 10, 514-519.	3.3	6
38	Transportâ€ diffusion models with nonlinear boundary conditions and solution by generalized collocation methods. <i>Computers and Mathematics With Applications</i> , 2009, 58, 558-565.	2.7	3
39	Generalized collocation method for two-dimensional reaction-diffusion problems with homogeneous Neumann boundary conditions. <i>Computers and Mathematics With Applications</i> , 2008, 56, 2360-2370.	2.7	3
40	Reduction of the hyporheic zone volume due to the streamâ€ aquifer interaction. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	107
41	Intraâ€ meander hyporheic flow in alluvial rivers. <i>Water Resources Research</i> , 2008, 44, .	4.2	72
42	Closure to â€ Greenâ€™s Function of the Linearized de Saint-Venant Equationsâ€ by Luca Ridolfi, Amilcare Porporato, and Roberto Revelli. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 809-809.	2.9	0
43	Bedform-induced hyporheic exchange with unsteady flows. <i>Advances in Water Resources</i> , 2007, 30, 148-156.	3.8	132
44	Greenâ€™s Function of the Linearized de Saint-Venant Equations. <i>Journal of Engineering Mechanics - ASCE</i> , 2006, 132, 125-132.	2.9	19
45	Sinuosity-driven hyporheic exchange in meandering rivers. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	159
46	Stochastic modelling of DO and BOD components in a stream with random inputs. <i>Advances in Water Resources</i> , 2006, 29, 1341-1350.	3.8	32
47	Nonlinear convection-dispersion models with a localized pollutant source, IIâ€™A class of inverse problems. <i>Mathematical and Computer Modelling</i> , 2005, 42, 601-612.	2.0	9
48	Source identification in river pollution problems: A geostatistical approach. <i>Water Resources Research</i> , 2005, 41, .	4.2	41
49	Stochastic dynamics of BOD in a stream with random inputs. <i>Advances in Water Resources</i> , 2004, 27, 943-952.	3.8	24
50	Transport of reactive chemicals in sediment-laden streams. <i>Advances in Water Resources</i> , 2003, 26, 815-831.	3.8	13
51	Sinc collocation-interpolation method for the simulation of nonlinear waves. <i>Computers and Mathematics With Applications</i> , 2003, 46, 1443-1453.	2.7	26
52	Influence of suspended sediment on the transport processes of nonlinear reactive substances in turbulent streams. <i>Journal of Fluid Mechanics</i> , 2002, 472, 307-331.	3.4	11
53	Fuzzy Approach for Analysis of Pipe Networks. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 93-101.	1.5	80
54	Brief Note â€ Inception of Channelization Over a Non-flat Bed. <i>Meccanica</i> , 2000, 35, 457-461.	2.0	7

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55	Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer. Journal of Irrigation and Drainage Engineering - ASCE, 2000, 126, 110-112.	1.0	4
56	Influence of heterogeneity on the flow in unconfined aquifers. Journal of Hydrology, 2000, 228, 150-159.	5.4	10
57	On the use of neural networks for dendroclimatic reconstructions. Geophysical Research Letters, 2000, 27, 791-794.	4.0	21