

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
g-index

62
all docs

62
docs citations

62
times ranked

2158
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyporheic flow and transport processes: Mechanisms, models, and biogeochemical implications. <i>Reviews of Geophysics</i> , 2014, 52, 603-679.	23.0	642
2	Nutrient cycling in bedform induced hyporheic zones. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 47-61.	3.9	191
3	Sinuosity-driven hyporheic exchange in meandering rivers. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	159
4	Bedform-induced hyporheic exchange with unsteady flows. <i>Advances in Water Resources</i> , 2007, 30, 148-156.	3.8	132
5	Reduction of the hyporheic zone volume due to the stream-aquifer interaction. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	107
6	Fuzzy Approach for Analysis of Pipe Networks. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 93-101.	1.5	80
7	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
8	Intra-meander hyporheic flow in alluvial rivers. <i>Water Resources Research</i> , 2008, 44, .	4.2	72
9	Quantifying the impact of groundwater discharge on the surface-subsurface exchange. <i>Hydrological Processes</i> , 2009, 23, 2108-2116.	2.6	60
10	Small-scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. <i>Geophysical Research Letters</i> , 2013, 40, 1118-1122.	4.0	48
11	Ecohydrology of street trees: design and irrigation requirements for sustainable water use. <i>Ecohydrology</i> , 2014, 7, 508-523.	2.4	45
12	Performance characteristics, power losses and mechanical power estimation for a breastshot water wheel. <i>Energy</i> , 2015, 87, 315-325.	8.8	43
13	Source identification in river pollution problems: A geostatistical approach. <i>Water Resources Research</i> , 2005, 41, .	4.2	41
14	Modeling hyporheic exchange with unsteady stream discharge and bedform dynamics. <i>Water Resources Research</i> , 2013, 49, 4089-4099.	4.2	39
15	Output power and power losses estimation for an overshoot water wheel. <i>Renewable Energy</i> , 2015, 83, 979-987.	8.9	36
16	Effect of streamflow stochasticity on bedform-driven hyporheic exchange. <i>Advances in Water Resources</i> , 2010, 33, 1367-1374.	3.8	35
17	A linear model for the coupled surface-subsurface flow in a meandering stream. <i>Water Resources Research</i> , 2010, 46, .	4.2	34
18	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

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19	Water and solute exchange through flat streambeds induced by large turbulent eddies. <i>Journal of Hydrology</i> , 2011, 402, 290-296.	5.4	31
20	Sinc collocation-interpolation method for the simulation of nonlinear waves. <i>Computers and Mathematics With Applications</i> , 2003, 46, 1443-1453.	2.7	26
21	CFD simulations to optimize the blade design of water wheels. <i>Drinking Water Engineering and Science</i> , 2017, 10, 27-32.	0.8	26
22	Community detection as a tool for complex pipe network clustering. <i>Europhysics Letters</i> , 2013, 103, 48001.	2.0	25
23	Ecohydrological model for the quantification of ecosystem services provided by urban street trees. <i>Urban Ecosystems</i> , 2018, 21, 489-504.	2.4	25
24	Stochastic dynamics of BOD in a stream with random inputs. <i>Advances in Water Resources</i> , 2004, 27, 943-952.	3.8	24
25	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
26	On the use of neural networks for dendroclimatic reconstructions. <i>Geophysical Research Letters</i> , 2000, 27, 791-794.	4.0	21
27	Hydraulic Behavior and Performance of Breastshot Water Wheels for Different Numbers of Blades. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	20
28	Greenâ€™s Function of the Linearized de Saint-Venant Equations. <i>Journal of Engineering Mechanics - ASCE</i> , 2006, 132, 125-132.	2.9	19
29	Transport of reactive chemicals in sediment-laden streams. <i>Advances in Water Resources</i> , 2003, 26, 815-831.	3.8	13
30	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
31	Functional Analysis of Piedmont (Italy) Ancient Water Mills Aimed at Their Recovery or Reconversion. <i>Machines</i> , 2019, 7, 32.	2.2	12
32	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
33	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
34	Influence of heterogeneity on the flow in unconfined aquifers. <i>Journal of Hydrology</i> , 2000, 228, 150-159.	5.4	10
35	Characterization of alum floc in water treatment by image analysis and modeling. <i>Cogent Engineering</i> , 2014, 1, 944767.	2.2	10
36	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

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37	Nonlinear convection-dispersion models with a localized pollutant source, "A class of inverse problems. Mathematical and Computer Modelling, 2005, 42, 601-612.	2.0	9
38	Community Detection as a Tool for District Metered Areas Identification. Procedia Engineering, 2014, 70, 1518-1523.	1.2	9
39	Brief Note "Inception of Channelization Over a Non-flat Bed. Meccanica, 2000, 35, 457-461.	2.0	7
40	Groundwater impact on methane emissions from flooded paddy fields. Advances in Water Resources, 2015, 83, 340-350.	3.8	7
41	A Scoring Matrix Method for Integrated Evaluation of Water-Related Ecosystem Services Provided by Urban Parks. Environmental Management, 2020, 66, 756-769.	2.7	7
42	Performance Optimization of Overshot Water Wheels at High Rotational Speeds for Hydropower Applications. Journal of Hydraulic Engineering, 2020, 146, .	1.5	7
43	Numerical model application for the restoration of the Racconigi Royal Park (CN, Italy). Journal of Cultural Heritage, 2009, 10, 514-519.	3.3	6
44	Decreasing of methanogenic activity in paddy fields via lowering ponding water temperature: A modeling investigation. Soil Biology and Biochemistry, 2014, 75, 211-222.	8.8	6
45	Experimental Analysis of Effect of Canal Geometry and Water Levels on Rotary Hydrostatic Pressure Machine. Journal of Hydraulic Engineering, 2020, 146, .	1.5	6
46	The Very Low Head Turbine for hydropower generation in existing hydraulic infrastructures: State of the art and future challenges. Sustainable Energy Technologies and Assessments, 2022, 51, 101924.	2.7	6
47	Optimal design process of crossflow Banki turbines: Literature review and novel expeditious equations. Ocean Engineering, 2022, 257, 111582.	4.3	5
48	Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer. Journal of Irrigation and Drainage Engineering - ASCE, 2000, 126, 110-112.	1.0	4
49	The weight of water. Physics Today, 2014, 67, 41-46.	0.3	4
50	Generalized collocation method for two-dimensional reaction-diffusion problems with homogeneous Neumann boundary conditions. Computers and Mathematics With Applications, 2008, 56, 2360-2370.	2.7	3
51	Transport"diffusion models with nonlinear boundary conditions and solution by generalized collocation methods. Computers and Mathematics With Applications, 2009, 58, 558-565.	2.7	3
52	Recovering the Release History of a Pollutant Intrusion into a Water Supply System through a Geostatistical Approach. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 418-425.	2.6	3
53	Ecohydrology of Urban Ecosystems. , 2019, , 533-571.		3
54	Modeling the Fate of Disinfection By-products in Water Distribution Systems. Procedia Engineering, 2014, 89, 255-261.	1.2	2

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55	Generalized collocation method for linear and nonlinear convection-diffusion models. KSCE Journal of Civil Engineering, 2011, 15, 589-593.	1.9	1
56	Power Transmission and Mechanisms of an Old Water Mill. Mechanisms and Machine Science, 2019, , 29-37.	0.5	1
57	Closure to "Green's Function of the Linearized de Saint-Venant Equations" by Luca Ridolfi, Amilcare Porporato, and Roberto Revelli. Journal of Engineering Mechanics - ASCE, 2008, 134, 809-809.	2.9	0