

# Costanza Aric

## List of Publications by Citations

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34  
papers

491  
citations

11  
h-index

21  
g-index

37  
ext. papers

545  
ext. citations

3.8  
avg. IF

3.94  
L-index

#	Paper	IF	Citations
34	Hydropower Potential in Water Distribution Networks: Pressure Control by PATs. <i>Water Resources Management</i> , <b>2015</b> , 29, 699-714	3.7	94
33	Banki-Michell Optimal Design by Computational Fluid Dynamics Testing and Hydrodynamic Analysis. <i>Energies</i> , <b>2013</b> , 6, 2362-2385	3.1	84
32	MAST-2D diffusive model for flood prediction on domains with triangular Delaunay unstructured meshes. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 1427-1449	4.7	44
31	Cross-flow Turbine Design for Variable Operating Conditions. <i>Procedia Engineering</i> , <b>2014</b> , 70, 1539-1548		38
30	Using unsteady-state water level data to estimate channel roughness and discharge hydrograph. <i>Advances in Water Resources</i> , <b>2009</b> , 32, 1223-1240	4.7	28
29	A marching in space and time (MAST) solver of the shallow water equations. Part I: The 1D model. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 1236-1252	4.7	22
28	Cross-Flow Turbine Design for Energy Production and Discharge Regulation. <i>Journal of Hydraulic Engineering</i> , <b>2015</b> , 141, 04014083	1.8	21
27	A marching in space and time (MAST) solver of the shallow water equations. Part II: The 2D model. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 1253-1271	4.7	16
26	A non-hydrostatic pressure distribution solver for the nonlinear shallow water equations over irregular topography. <i>Advances in Water Resources</i> , <b>2016</b> , 98, 47-69	4.7	14
25	MAST solution of advection problems in irrotational flow fields. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 665-685	4.7	14
24	Discharge estimation in open channels by means of water level hydrograph analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2010</b> , 48, 612-619	1.9	12
23	The FLO Diffusive 1D-2D Model for Simulation of River Flooding. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 200	3	11
22	Diffusive Modeling of Aggradation and Degradation in Artificial Channels. <i>Journal of Hydraulic Engineering</i> , <b>2008</b> , 134, 1079-1088	1.8	10
21	Experimental and numerical analysis of a backpressure Banki inline turbine for pressure regulation and energy production. <i>Renewable Energy</i> , <b>2020</b> , 149, 980-986	8.1	9
20	The MAST-edge centred lumped scheme for the flow simulation in variably saturated heterogeneous porous media. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 1387-1425	4.1	8
19	Anisotropic potential of velocity fields in real fluids: Application to the MAST solution of shallow water equations. <i>Advances in Water Resources</i> , <b>2013</b> , 62, 13-36	4.7	8
18	Numerical Simulations of the Flow Field of a Submerged Hydraulic Jump over Triangular Macroroughnesses. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 674	3	8

17	Coupled Electric and Hydraulic Control of a PRS Turbine in a Real Transport Water Network. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1194	3	6
16	Comparative Analyses between the Zero-Inertia and Fully Dynamic Models of the Shallow Water Equations for Unsteady Overland Flow Propagation. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 44	3	6
15	The MAST FV/FE scheme for the simulation of two-dimensional thermohaline processes in variable-density saturated porous media. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 1234-1274	4.1	6
14	Impeller Optimization in Crossflow Hydraulic Turbines. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 313	3	6
13	Monotonic solution of heterogeneous anisotropic diffusion problems. <i>Journal of Computational Physics</i> , <b>2013</b> , 252, 219-249	4.1	5
12	Performance improvement of a Savonius water rotor with novel blade shapes. <i>Ocean Engineering</i> , <b>2021</b> , 237, 109611	3.9	5
11	Monotonic solution of flow and transport problems in heterogeneous media using Delaunay unstructured triangular meshes. <i>Advances in Water Resources</i> , <b>2013</b> , 52, 132-150	4.7	4
10	A novel pressure regulation system based on Banki hydro turbine for energy recovery under in-range and out-range discharge conditions. <i>Energy Conversion and Management</i> , <b>2021</b> , 243, 114417	10.6	3
9	Numerical analysis of a new cross-flow type hydraulic turbine for high head and low flow rate. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 1491-1507	4.5	3
8	Investigation of the hemodynamic flow conditions and blood-induced stresses inside an abdominal aortic aneurysm by means of a SPH numerical model. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2020</b> , 36, e3263	2.6	2
7	Simulation of the Propagation of Tsunamis in Coastal Regions by a Two-Dimensional Non-Hydrostatic Shallow Water Solver. <i>Fluid Mechanics Research International Journal</i> , <b>2017</b> , 1,	1.5	1
6	A new solver for incompressible non-isothermal flows in natural and mixed convection over unstructured grids. <i>Applied Mathematical Modelling</i> , <b>2022</b> , 103, 445-474	4.5	1
5	Low-Head Hydropower for Energy Recovery in Wastewater Systems. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 16493		1
4	Use of Heating Configuration to Control Marangoni Circulation during Droplet Evaporation. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1653	3	1
3	Performance Improvement of a Drag Hydrokinetic Turbine. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 273	3	0
2	MAST-RT0 solution of the incompressible Navier-Stokes equations in 3D complex domains. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 53-93	4.5	
1	Design of Reliable and Efficient Banki-Type Turbines. <i>Environmental Sciences Proceedings</i> , <b>2020</b> , 2, 49	1	