Tullio Tucciarelli

List of Publications by Year
in descending order

43	758	643344 15	620720 26
papers	citations	h-index	g-index

43	43	43	514
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new solver for incompressible non-isothermal flows in natural and mixed convection over unstructured grids. Applied Mathematical Modelling, 2022, 103, 445-474.	2.2	3
2	Low-Head Hydropower for Energy Recovery in Wastewater Systems. Water (Switzerland), 2022, 14, 1649.	1.2	5
3	A novel pressure regulation system based on Banki hydro turbine for energy recovery under in-range and out-range discharge conditions. Energy Conversion and Management, 2021, 243, 114417.	4.4	8
4	Impeller Optimization in Crossflow Hydraulic Turbines. Water (Switzerland), 2021, 13, 313.	1.2	11
5	Numerical analysis of a new cross-flow type hydraulic turbine for high head and low flow rate. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1491-1507.	1.5	6
6	MAST-RT0 solution of the incompressible Navierâ€“Stokes equations in 3D complex domains. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 53-93.	1.5	0
7	Experimental and numerical analysis of a backpressure Banki inline turbine for pressure regulation and energy production. Renewable Energy, 2020, 149, 980-986.	4.3	18
8	Investigation of the hemodynamic flow conditions and bloodâ€induced stresses inside an abdominal aortic aneurysm by means of a SPH numerical model. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3263.	1.0	5
9	Design of Reliable and Efficient Banki-Type Turbines. Environmental Sciences Proceedings, 2020, 2, 49.	0.3	0
10	An Evaluation Matrix to Compare Computer Hydrological Models for Flood Predictions. Hydrology, 2020, 7, 42.	1.3	19
11	A Self-Contained and Automated Method for Flood Hazard Maps Prediction in Urban Areas. Water (Switzerland), 2020, 12, 1266.	1.2	6
12	Performance improvement of a novel combined water turbine. Energy Conversion and Management, 2020, 205, 112473.	4.4	30
13	Coupled Electric and Hydraulic Control of a PRS Turbine in a Real Transport Water Network. Water (Switzerland), 2019, 11, 1194.	1.2	12
14	Effect of the Converging Pipe on the Performance of a Lucid Spherical Rotor. Arabian Journal for Science and Engineering, 2019, 44, 1583-1600.	1.7	12
15	Assessment of river flow with significant lateral inflow through reverse routing modeling. Hydrological Processes, 2017, 31, 1539-1557.	1.1	19
16	A Bankiâ€“Michell turbine for in-line water supply systems. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 686-694.	0.7	28
17	Coupled Hydraulic and Electronic Regulation of Cross-Flow Turbines in Hydraulic Plants. Journal of Hydraulic Engineering, 2017, 143, .	0.7	18
18	A New Device for Pressure Control and Energy Recovery in Water Distribution Networks. Water (Switzerland), 2017, 9, 309.	1.2	40

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19	Unsteady State Water Level Analysis for Discharge Hydrograph Estimation in Rivers with Torrential Regime: The Case Study of the February 2016 Flood Event in the Crati River, South Italy. Water (Switzerland), 2017, 9, 288.	1.2	4
20	The FLO Diffusive 1D-2D Model for Simulation of River Flooding. Water (Switzerland), 2016, 8, 200.	1.2	14
21	Coupled Hydraulic and Electronic Regulation for Banki Turbines. Procedia Engineering, 2016, 162, 419-425.	1.2	3
22	Optimization of Osmotic Desalination Plants for Water Supply Networks. Water Resources Management, 2016, 30, 3965-3978.	1.9	16
23	Numerical and experimental investigation of a cross-flow water turbine. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 321-331.	0.7	35
24	Cross-Flow Turbine Design for Energy Production and Discharge Regulation. Journal of Hydraulic Engineering, 2015, 141, .	0.7	25
25	Experimental Study of Cross-flow Micro-turbines for Aqueduct Energy Recovery. Procedia Engineering, 2014, 89, 540-547.	1.2	23
26	Cost-Benefit Analysis for Hydropower Production in Water Distribution Networks by a Pump as Turbine. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	77
27	Extensible Wind Towers. Springer Proceedings in Physics, 2014, , 217-223.	0.1	0
28	Monotonic solution of flow and transport problems in heterogeneous media using Delaunay unstructured triangular meshes. Advances in Water Resources, 2013, 52, 132-150.	1.7	4
29	Anisotropic potential of velocity fields in real fluids: Application to the MAST solution of shallow water equations. Advances in Water Resources, 2013, 62, 13-36.	1.7	10
30	Monotonic solution of heterogeneous anisotropic diffusion problems. Journal of Computational Physics, 2013, 252, 219-249.	1.9	7
31	Banki-Michell Optimal Design by Computational Fluid Dynamics Testing and Hydrodynamic Analysis. Energies, 2013, 6, 2362-2385.	1.6	112
32	The MAST-edge centred lumped scheme for the flow simulation in variably saturated heterogeneous porous media. Journal of Computational Physics, 2012, 231, 1387-1425.	1.9	9
33	Discharge estimation in open channels by means of water level hydrograph analysis. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 612-619.	0.7	16
34	The MAST FV/FE scheme for the simulation of two-dimensional thermohaline processes in variable-density saturated porous media. Journal of Computational Physics, 2009, 228, 1234-1274.	1.9	8
35	Using unsteady-state water level data to estimate channel roughness and discharge hydrograph. Advances in Water Resources, 2009, 32, 1223-1240.	1.7	35
36	MAST solution of advection problems in irrotational flow fields. Advances in Water Resources, 2007, 30, 665-685.	1.7	16

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37	An explicit unconditionally stable numerical solution of the advection problem in irrotational flow fields. Water Resources Research, 2004, 40, .	1.7	11
38	A new algorithm for a robust solution of the fully dynamic Saint-Venant equations. Journal of Hydraulic Research/De Recherches Hydrauliques, 2003, 41, 239-246.	0.7	7
39	A methodology to determine optimal transmissivity measurement locations in groundwater quality management models with scarce field information. Water Resources Research, 1997, 33, 1265-1274.	1.7	14
40	A new formulation for transmissivity estimation with improved global convergence properties. Water Resources Research, 1991, 27, 243-251.	1.7	6
41	Optimal data acquisition strategy for the development of a transport model for groundwater remediation. Water Resources Research, 1991, 27, 577-588.	1.7	38
42	A semiautomatic mesh generation algorithm for threeâ€dimensional groundwater tetrahedral finite element models. Water Resources Research, 1989, 25, 573-576.	1.7	1
43	A 3-D finite element conjugate gradient model of subsurface flow with automatic mesh generation. Advances in Water Resources, 1986, 9, 34-41.	1.7	27