

Tullio Tucciarelli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3416154/publications.pdf>

Version: 2024-02-01

43
papers

758
citations

567144

15
h-index

552653

26
g-index

43
all docs

43
docs citations

43
times ranked

464
citing authors

#	ARTICLE	IF	CITATIONS
1	Banki-Michell Optimal Design by Computational Fluid Dynamics Testing and Hydrodynamic Analysis. <i>Energies</i> , 2013, 6, 2362-2385.	1.6	112
2	Cost-Benefit Analysis for Hydropower Production in Water Distribution Networks by a Pump as Turbine. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	1.3	77
3	A New Device for Pressure Control and Energy Recovery in Water Distribution Networks. <i>Water (Switzerland)</i> , 2017, 9, 309.	1.2	40
4	Optimal data acquisition strategy for the development of a transport model for groundwater remediation. <i>Water Resources Research</i> , 1991, 27, 577-588.	1.7	38
5	Using unsteady-state water level data to estimate channel roughness and discharge hydrograph. <i>Advances in Water Resources</i> , 2009, 32, 1223-1240.	1.7	35
6	Numerical and experimental investigation of a cross-flow water turbine. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 321-331.	0.7	35
7	Performance improvement of a novel combined water turbine. <i>Energy Conversion and Management</i> , 2020, 205, 112473.	4.4	30
8	A Banki-Michell turbine for in-line water supply systems. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 686-694.	0.7	28
9	A 3-D finite element conjugate gradient model of subsurface flow with automatic mesh generation. <i>Advances in Water Resources</i> , 1986, 9, 34-41.	1.7	27
10	Cross-Flow Turbine Design for Energy Production and Discharge Regulation. <i>Journal of Hydraulic Engineering</i> , 2015, 141, .	0.7	25
11	Experimental Study of Cross-flow Micro-turbines for Aqueduct Energy Recovery. <i>Procedia Engineering</i> , 2014, 89, 540-547.	1.2	23
12	Assessment of river flow with significant lateral inflow through reverse routing modeling. <i>Hydrological Processes</i> , 2017, 31, 1539-1557.	1.1	19
13	An Evaluation Matrix to Compare Computer Hydrological Models for Flood Predictions. <i>Hydrology</i> , 2020, 7, 42.	1.3	19
14	Coupled Hydraulic and Electronic Regulation of Cross-Flow Turbines in Hydraulic Plants. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	0.7	18
15	Experimental and numerical analysis of a backpressure Banki inline turbine for pressure regulation and energy production. <i>Renewable Energy</i> , 2020, 149, 980-986.	4.3	18
16	MAST solution of advection problems in irrotational flow fields. <i>Advances in Water Resources</i> , 2007, 30, 665-685.	1.7	16
17	Discharge estimation in open channels by means of water level hydrograph analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010, 48, 612-619.	0.7	16
18	Optimization of Osmotic Desalination Plants for Water Supply Networks. <i>Water Resources Management</i> , 2016, 30, 3965-3978.	1.9	16

#	ARTICLE	IF	CITATIONS
19	A methodology to determine optimal transmissivity measurement locations in groundwater quality management models with scarce field information. <i>Water Resources Research</i> , 1997, 33, 1265-1274.	1.7	14
20	The FLO Diffusive 1D-2D Model for Simulation of River Flooding. <i>Water (Switzerland)</i> , 2016, 8, 200.	1.2	14
21	Coupled Electric and Hydraulic Control of a PRS Turbine in a Real Transport Water Network. <i>Water (Switzerland)</i> , 2019, 11, 1194.	1.2	12
22	Effect of the Converging Pipe on the Performance of a Lucid Spherical Rotor. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 1583-1600.	1.7	12
23	An explicit unconditionally stable numerical solution of the advection problem in irrotational flow fields. <i>Water Resources Research</i> , 2004, 40, .	1.7	11
24	Impeller Optimization in Crossflow Hydraulic Turbines. <i>Water (Switzerland)</i> , 2021, 13, 313.	1.2	11
25	Anisotropic potential of velocity fields in real fluids: Application to the MAST solution of shallow water equations. <i>Advances in Water Resources</i> , 2013, 62, 13-36.	1.7	10
26	The MAST-edge centred lumped scheme for the flow simulation in variably saturated heterogeneous porous media. <i>Journal of Computational Physics</i> , 2012, 231, 1387-1425.	1.9	9
27	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> , 2009, 228, 1234-1274.	1.9	8
28	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> , 2021, 243, 114417.	4.4	8
29	A new algorithm for a robust solution of the fully dynamic Saint-Venant equations. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2003, 41, 239-246.	0.7	7
30	Monotonic solution of heterogeneous anisotropic diffusion problems. <i>Journal of Computational Physics</i> , 2013, 252, 219-249.	1.9	7
31	A new formulation for transmissivity estimation with improved global convergence properties. <i>Water Resources Research</i> , 1991, 27, 243-251.	1.7	6
32	A Self-Contained and Automated Method for Flood Hazard Maps Prediction in Urban Areas. <i>Water (Switzerland)</i> , 2020, 12, 1266.	1.2	6
33	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> , 2021, 15, 1491-1507.	1.5	6
34	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> , 2020, 36, e3263.	1.0	5
35	Low-Head Hydropower for Energy Recovery in Wastewater Systems. <i>Water (Switzerland)</i> , 2022, 14, 1649.	1.2	5
36	Monotonic solution of flow and transport problems in heterogeneous media using Delaunay unstructured triangular meshes. <i>Advances in Water Resources</i> , 2013, 52, 132-150.	1.7	4

#	ARTICLE	IF	CITATIONS
37	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. <i>Water</i> (Switzerland), 2017, 9, 288.	1.2	4
38	Coupled Hydraulic and Electronic Regulation for Banki Turbines. <i>Procedia Engineering</i> , 2016, 162, 419-425.	1.2	3
39	A new solver for incompressible non-isothermal flows in natural and mixed convection over unstructured grids. <i>Applied Mathematical Modelling</i> , 2022, 103, 445-474.	2.2	3
40	A semiautomatic mesh generation algorithm for three-dimensional groundwater tetrahedral finite element models. <i>Water Resources Research</i> , 1989, 25, 573-576.	1.7	1
41	Design of Reliable and Efficient Banki-Type Turbines. <i>Environmental Sciences Proceedings</i> , 2020, 2, 49.	0.3	0
42	Extensible Wind Towers. <i>Springer Proceedings in Physics</i> , 2014, , 217-223.	0.1	0
43	MAST-RTO solution of the incompressible Navier-Stokes equations in 3D complex domains. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 53-93.	1.5	0