

Enrico Nobile

List of Publications by Year in descending order

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37
papers

978
citations

567281

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37
all docs

37
docs citations

37
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of mass transfer models for the numerical prediction of sheet cavitation around a hydrofoil. <i>International Journal of Multiphase Flow</i> , 2011, 37, 620-626.	3.4	149
2	High resolution microtomography-based CFD simulation of flow and heat transfer in aluminum metal foams. <i>Applied Thermal Engineering</i> , 2014, 69, 230-240.	6.0	118
3	Numerical analysis of fluid flow and heat transfer in periodic wavy channels. <i>International Journal of Heat and Fluid Flow</i> , 2001, 22, 156-167.	2.4	112
4	Influence of grid type and turbulence model on the numerical prediction of the flow around marine propellers working in uniform inflow. <i>Ocean Engineering</i> , 2012, 42, 26-34.	4.3	65
5	Physical and numerical modelling of a solar chimney-based ventilation system for buildings. <i>Building and Environment</i> , 1992, 27, 433-445.	6.9	62
6	DNS study of turbulent transport at low Prandtl numbers in a channel flow. <i>Journal of Fluid Mechanics</i> , 2002, 458, 419-441.	3.4	50
7	Direct numerical simulation of heat transfer over riblets. <i>International Journal of Heat and Fluid Flow</i> , 2003, 24, 356-371.	2.4	49
8	High resolution X-ray microtomography-based CFD simulation for the characterization of flow permeability and effective thermal conductivity of aluminum metal foams. <i>Experimental Thermal and Fluid Science</i> , 2015, 67, 30-36.	2.7	47
9	Experimental investigation of steam pressure coffee extraction in a stove-top coffee maker. <i>Applied Thermal Engineering</i> , 2009, 29, 998-1004.	6.0	40
10	Multi-objective shape optimization of a tube bundle in cross-flow. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 585-598.	4.8	38
11	Numerical Predictions of Cavitating Flow around Model Scale Propellers by CFD and Advanced Model Calibration. <i>International Journal of Rotating Machinery</i> , 2012, 2012, 1-11.	0.8	36
12	Geometric Parameterization and Multiobjective Shape Optimization of Convective Periodic Channels. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2006, 50, 425-453.	0.9	31
13	Solution of incompressible fluid flow problems with heat transfer by means of an efficient RBF-FD meshless approach. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2019, 75, 19-42.	0.9	19
14	Simulation of Sheet and Cloud Cavitation with Homogenous Transport Models. <i>International Journal of Simulation Modelling</i> , 2013, 12, 94-106.	1.3	18
15	Two algorithms for fast 2D node generation: Application to RBF meshless discretization of diffusion problems and image halftoning. <i>Computers and Mathematics With Applications</i> , 2018, 75, 4305-4321.	2.7	18
16	Direct numerical simulation of turbulent heat transfer in a square duct. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2002, 12, 658-686.	2.8	14
17	SIMULATION OF TIME-DEPENDENT FLOW IN CAVITIES WITH THE ADDITIVE-CORRECTION MULTIGRID METHOD, PART II: APPLICATIONS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 1996, 30, 351-370.	0.9	13
18	On the effective thermal conductivity of metal foams. <i>Journal of Physics: Conference Series</i> , 2014, 547, 012021.	0.4	13

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19	Novel multilevel techniques for convergence acceleration in the solution of systems of equations arising from RBF-FD meshless discretizations. <i>Journal of Computational Physics</i> , 2019, 392, 311-334.	3.8	13
20	Natural convection in a 2D-cavity with vertical isothermal walls: Cross-validation of two numerical solutions. <i>International Journal of Thermal Sciences</i> , 2006, 45, 917-922.	4.9	12
21	Numerical simulation of flow in a high head Francis turbine with prediction of efficiency, rotor stator interaction and vortex structures in the draft tube. <i>Journal of Physics: Conference Series</i> , 2015, 579, 012006.	0.4	12
22	A Fully Meshless Approach to the Numerical Simulation of Heat Conduction Problems over Arbitrary 3D Geometries. <i>Energies</i> , 2021, 14, 1351.	3.1	9
23	Estimation of Heat Flux Distribution in a Continuous Casting Mould by Inverse Heat Transfer Algorithms. , 2011, , .		6
24	Microtomography-based CFD Analysis of Transport in Open-Cell Aluminum Metal Foams. <i>Journal of Physics: Conference Series</i> , 2014, 501, 012021.	0.4	6
25	Multi-objective Optimization for Problems Involving Convective Heat Transfer. , 2008, , 217-266.		5
26	modeFRONTIER for Virtual Design and Optimization of Compact Heat Exchangers. , 2014, , .		4
27	Detailed Analysis of Flow in Two Pelton Turbines with Efficiency and Cavitation Prediction. <i>International Journal of Fluid Machinery and Systems</i> , 2019, 12, 388-399.	0.2	4
28	Numerical Prediction of Cavitating Vortex Rope in a Draft Tube of a Francis Turbine with Standard and Calibrated Cavitation Model. <i>Journal of Physics: Conference Series</i> , 2017, 813, 012045.	0.4	3
29	Numerical analysis of heat conduction problems on 3D general-shaped domains by means of a RBF Collocation Meshless Method. <i>Journal of Physics: Conference Series</i> , 2017, 923, 012034.	0.4	3
30	Numerical simulations of a cavitating propeller in uniform and oblique flow. <i>International Shipbuilding Progress</i> , 2019, 66, 77-90.	0.4	3
31	Numerical investigation of the flow in axial water turbines and marine propellers with scale-resolving simulations. <i>Journal of Physics: Conference Series</i> , 2015, 655, 012052.	0.4	2
32	Multi-Objective Shape Optimization of Convective Wavy Channels. , 2005, , 829.		1
33	Numerical predictions of the turbulent cavitating flow around a marine propeller and an axial turbine. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012066.	0.4	1
34	Node generation in complex 3D domains for heat conduction problems solved by RBF-FD meshless method. <i>Journal of Physics: Conference Series</i> , 2021, 2116, 012020.	0.4	1
35	Numerical analysis of thermo-fluid problems in 3D domains by means of the RBF-FD meshless method. <i>Journal of Physics: Conference Series</i> , 2022, 2177, 012007.	0.4	1
36	Numerical analysis of advection-diffusion problems on 2D general-shaped domains by means of a RBF Collocation Meshless Method. <i>Journal of Physics: Conference Series</i> , 2019, 1224, 012013.	0.4	0

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37	Propagation of geometric uncertainties in heat transfer problems solved by RBF-FD meshless method. Journal of Physics: Conference Series, 2021, 1868, 012021.	0.4	0