

Gabriel Usera

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

318
citations

1163117

8
h-index

888059

17
g-index

22
all docs

22
docs citations

22
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability of Computational Fluid Dynamics Solutions for Pressure and Flow in a Giant Aneurysm: The ASME 2012 Summer Bioengineering Conference CFD Challenge. Journal of Biomechanical Engineering, 2013, 135, 021016.	1.3	109
2	The Computational Fluid Dynamics Rupture Challenge 2013"Phase II: Variability of Hemodynamic Simulations in Two Intracranial Aneurysms. Journal of Biomechanical Engineering, 2015, 137, 121008.	1.3	74
3	A general purpose parallel block structured open source incompressible flow solver. Cluster Computing, 2014, 17, 231-241.	5.0	28
4	A Large Eddy Simulation-Actuator Line Model framework to simulate a scaled wind energy facility and its application. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 182, 146-159.	3.9	19
5	Accuracy and Reproducibility of Patient-Specific Hemodynamic Models of Stented Intracranial Aneurysms: Report on the Virtual Intracranial Stenting Challenge 2011. Annals of Biomedical Engineering, 2015, 43, 154-167.	2.5	17
6	Influence of coaxial cylinders on the vortex breakdown in a closed flow. European Journal of Mechanics, B/Fluids, 2010, 29, 201-207.	2.5	13
7	Distribution and effectiveness of pesticide application with a cold fogger on pepper plants cultured in a greenhouse. Crop Protection, 2011, 30, 977-985.	2.1	13
8	Heterogeneous Computing (CPU"GPU) for Pollution Dispersion in an Urban Environment. Computation, 2020, 8, 3.	2.0	9
9	Two-layer stratified flows over pronounced obstacles at low-to-intermediate Froude numbers. Physics of Fluids, 2009, 21, 044102.	4.0	7
10	Towards a finite volume model on a many-core platform. International Journal of High Performance Systems Architecture, 2012, 4, 78.	0.3	5
11	Simulation of a Hydrostatic Pressure Machine with Caffa3d Solver: Numerical Model Characterization and Evaluation. Water (Switzerland), 2020, 12, 2419.	2.7	5
12	Numerical simulation of flow structures and temperature distribution in a Printed Circuit Board enclosure model at moderate Reynolds numbers. International Journal of Thermal Sciences, 2013, 70, 1-9.	4.9	4
13	Coupled discrete element and finite volume methods for simulating loaded elastic fishnets in interaction with fluid. Computers and Fluids, 2017, 156, 200-208.	2.5	4
14	Actuator Line Model simulations to study active power control at wind turbine level. Journal of Physics: Conference Series, 2019, 1256, 012030.	0.4	3
15	Simulation of vorticity wind turbines. Heliyon, 2020, 6, e05155.	3.2	3
16	CFD Challenge: Solutions Using Open Source Flow Solver Caffa3d.MBRi With Immersed Boundary Condition. , 2012, , .		1
17	Numerical Simulation of Turbulent Jet Scour through Implementation of a Single Phase Eulerian Model. Journal of Irrigation and Drainage Engineering - ASCE, 2022, 148, .	1.0	1
18	A General Purpose Parallel Block Structured Open Source Flow Solver. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Numerical ABL Wind Tunnel Simulations with Direct Modeling of Roughness Elements Through Immersed Boundary Condition Method. ERCOFTAC Series, 2016, , 73-82.	0.1	0
20	Avoiding Synchronization to Accelerate a CFD Solver in GPU. , 2019, , .		0
21	High Performance Computing Simulations of Granular Media in Silos. Communications in Computer and Information Science, 2021, , 34-48.	0.5	0