

Daniele Chiappini

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

588
citations

623188

14
h-index

610482

24
g-index

40
all docs

40
docs citations

40
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Off-grid PV/URFC power plant fueled with biogas from food waste: An energetic and economic analysis. <i>Energy</i> , 2021, 219, 119537.	4.5	7
2	A coupled lattice Boltzmann-finite volume method for phase change material analysis. <i>International Journal of Thermal Sciences</i> , 2021, 164, 106893.	2.6	8
3	Progress in mesoscale methods for fluid dynamics simulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200393.	1.6	0
4	A biogas-solar based hybrid off-grid power plant with multiple storages for United States commercial buildings. <i>Renewable Energy</i> , 2021, 179, 705-722.	4.3	11
5	Cooling System Energy Consumption Reduction through a Novel All-Electric Powertrain Traction Module and Control Optimization. <i>Energies</i> , 2021, 14, 33.	1.6	5
6	A lattice-Boltzmann free surface model for injection moulding of a non-Newtonian fluid. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190407.	1.6	3
7	Fluid Structure Interaction of 2D Objects through a Coupled KBC-Free Surface Model. <i>Water (Switzerland)</i> , 2020, 12, 1212.	1.2	0
8	A moving-grid approach for fluid-structure interaction problems with hybrid lattice Boltzmann method. <i>Computer Physics Communications</i> , 2019, 234, 137-145.	3.0	21
9	Experimental characterisation of a novel thermal energy storage based on open-cell copper foams immersed in organic phase change material. <i>Energy Conversion and Management</i> , 2019, 200, 112101.	4.4	24
10	Hydrodynamic behavior of the pseudopotential lattice Boltzmann method for interfacial flows. <i>Physical Review E</i> , 2019, 99, 053305.	0.8	15
11	Fluid flow around NACA 0012 airfoil at low-Reynolds numbers with hybrid lattice Boltzmann method. <i>Computers and Fluids</i> , 2018, 166, 200-208.	1.3	51
12	Coupled lattice Boltzmann finite volume method for conjugate heat transfer in porous media. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 73, 291-306.	1.2	24
13	Numerical simulation of natural convection in open-cells metal foams. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 527-537.	2.5	19
14	Analysis of the Fluid Motion Induced by a Vibrating Lamina Through Free Surface-Lattice Boltzmann Coupled Method. , 2018, , .		1
15	Water impact on obstacles using KBC-free surface lattice Boltzmann method. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
16	Ligament break-up simulation through pseudo-potential lattice Boltzmann method. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4
17	Overview on ICNAAM 2017 Session on Hull Slamming and Water-Entry Problems. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
18	OPEN-CELL METAL FOAM MESH GENERATION FOR LATTICE BOLTZMANN SIMULATIONS. <i>Journal of Porous Media</i> , 2018, 21, 423-439.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Hybrid lattice Boltzmann method on overlapping grids. Physical Review E, 2017, 95, 013309.	0.8	32
20	Technical Assessment of Different Operating Conditions of an On-Board Autothermal Reformer for Fuel Cell Vehicles. Energies, 2017, 10, 839.	1.6	8
21	A numerical model for CO effect evaluation in HT-PEMFCs: Part 2 - Application to different membranes. AIP Conference Proceedings, 2016, , .	0.3	1
22	Energy management of a plug-in fuel cell/battery hybrid vehicle with on-board fuel processing. Applied Energy, 2016, 184, 140-154.	5.1	82
23	A numerical model for CO effect evaluation in HT-PEMFCs: Part 1 - Experimental validation. AIP Conference Proceedings, 2016, , .	0.3	1
24	A comparison between different fractal grid generation methods coupled with lattice Boltzmann approach. AIP Conference Proceedings, 2016, , .	0.3	3
25	A comparison of numerical methods for non-Newtonian fluid flows in a sudden expansion. International Journal of Modern Physics C, 2016, 27, 1650139.	0.8	18
26	Direct Numerical Simulation of an Open-Cell Metallic Foam through Lattice Boltzmann Method. Communications in Computational Physics, 2015, 18, 707-722.	0.7	18
27	Lattice Boltzmann Methods for Multiphase Flow Simulations across Scales. Communications in Computational Physics, 2011, 9, 269-296.	0.7	68
28	Ultralow Carbon Dioxide Emission MCFC Based Power Plant. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	12
29	Modern lattice Boltzmann methods for multiphase microflows. IMA Journal of Applied Mathematics, 2011, 76, 712-725.	0.8	30
30	SOFC Management in Distributed Energy Systems. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	28
31	Improved Lattice Boltzmann Without Parasitic Currents for Rayleigh-Taylor Instability. Communications in Computational Physics, 2010, 7, 423-444.	0.7	50
32	APPLICATIONS OF FINITE-DIFFERENCE LATTICE BOLTZMANN METHOD TO BREAKUP AND COALESCENCE IN MULTIPHASE FLOWS. International Journal of Modern Physics C, 2009, 20, 1803-1816.	0.8	16
33	Ultra Low Carbon Dioxide Emission MCFC Based Power Plant. , 2009, , .		0
34	Modeling liquid break-up through a kinetic approach. SAE International Journal of Engines, 0, 2, 390-399.	0.4	8
35	Influence of Fuel Type on the Pperformance of a Plug-In Fuel Cell/Battery Hybrid Vehicle with On-Board Fuel Processing. , 0, , .		3
36	Sizing and Optimization of a Vortex Tube for Electric Vehicle HVAC Purposes. , 0, , .		0

#	ARTICLE	IF	CITATIONS
37	Cooling Performance of an Modified R744 Air Conditioning System with Vortex Tube and Internal Heat Exchanger for an Electric Vehicle. , 0, , .		3
38	A Coupled Lattice Boltzmann-Finite Volume Method for the Thermal Transient Modeling of an Air-Cooled Li-Ion Battery Cell for Electric Vehicles. , 0, , .		2
39	Performance Evaluation of an Electric Vehicle with Multiple Electric Machines for Increased Overall Drive Train Efficiency. , 0, , .		4
40	A Coupled Lattice Boltzmann-Finite Volume Method for the Thermal Transient Analysis of an Air-Cooled Li-Ion Battery Module for Electric Vehicles with Porous Media Insert Modeled at REV Scales. , 0, , .		0