Alessandro Gabbana

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/6399599/alessandro-gabbana-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

23 222 9 14 g-index

25 280 3.5 avg, IF L-index

#	Paper	IF	Citations
23	A Lattice Boltzmann Method for relativistic rarefied flows in (2+1) dimensions. <i>Journal of Computational Science</i> , 2021 , 51, 101320	3.4	1
22	A non-equilibrium bounce-back boundary condition for thermal multispeed LBM. <i>Journal of Computational Science</i> , 2021 , 53, 101364	3.4	3
21	Quantum computation of thermal averages in the presence of a sign problem. <i>Physical Review D</i> , 2020 , 101,	4.9	4
20	ThunderX2 Performance and Energy-Efficiency for HPC Workloads. Computation, 2020, 8, 20	2.2	5
19	Dissipative hydrodynamics of relativistic shock waves in a quark gluon plasma: Comparing and benchmarking alternate numerical methods. <i>Physical Review C</i> , 2020 , 101,	2.7	4
18	Relativistic lattice Boltzmann methods: Theory and applications. <i>Physics Reports</i> , 2020 , 863, 1-63	27.7	12
17	Energy-Efficiency Tuning of a Lattice Boltzmann Simulation Using MERIC. <i>Lecture Notes in Computer Science</i> , 2020 , 169-180	0.9	2
16	Early Performance Assessment of the ThunderX2 Processor for Lattice Based Simulations. <i>Lecture Notes in Computer Science</i> , 2020 , 187-198	0.9	2
15	Beyond moments: relativistic lattice Boltzmann methods for radiative transport in computational astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 3374-3394	4.3	6
14	Probing bulk viscosity in relativistic flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190409	3	2
13	Relativistic dissipation obeys Chapman-Enskog asymptotics: Analytical and numerical evidence as a basis for accurate kinetic simulations. <i>Physical Review E</i> , 2019 , 99, 052126	2.4	8
12	Optimization of lattice Boltzmann simulations on heterogeneous computers. <i>International Journal of High Performance Computing Applications</i> , 2019 , 33, 124-139	1.8	19
11	Numerical evidence of electron hydrodynamic whirlpools in graphene samples. <i>Computers and Fluids</i> , 2018 , 172, 644-650	2.8	4
10	Early Experience on Using Knights Landing Processors for Lattice Boltzmann Applications. <i>Lecture Notes in Computer Science</i> , 2018 , 519-530	0.9	3
9	Software and DVFS Tuning for Performance and Energy-Efficiency on Intel KNL Processors. <i>Journal of Low Power Electronics and Applications</i> , 2018 , 8, 18	1.7	9
8	Design and Optimizations of Lattice Boltzmann Methods for Massively Parallel GPU-Based Clusters. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2018 , 54-114	0.3	
7	Prospects for the Detection of Electronic Preturbulence in Graphene. <i>Physical Review Letters</i> , 2018 , 121, 236602	7.4	11

LIST OF PUBLICATIONS

6	Evaluation of DVFS techniques on modern HPC processors and accelerators for energy-aware applications. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4143	1.4	22
5	Towards a unified lattice kinetic scheme for relativistic hydrodynamics. <i>Physical Review E</i> , 2017 , 95, 0533.	D.4	17
4	Kinetic approach to relativistic dissipation. <i>Physical Review E</i> , 2017 , 96, 023305	2.4	15
3	Massively parallel lattice B oltzmann codes on large GPU clusters. <i>Parallel Computing</i> , 2016 , 58, 1-24	1	44
2	Performance and portability of accelerated lattice Boltzmann applications with OpenACC. Concurrency Computation Practice and Experience, 2016 , 28, 3485-3502	1.4	26
1	Benchmarking MIC architectures with Monte Carlo simulations of spin glass systems 2013 ,		3