Markus Rampp

List of Publications by Year
in descending order

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34	2,757	361045	433756
papers	citations	20 h-index	31 g-index

34	34	34	3518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An efficient particle tracking algorithm for large-scale parallel pseudo-spectral simulations of turbulence. Computer Physics Communications, 2022, 278, 108406.	3.0	4
2	Importance of accurate consideration of the electron inertia in hybrid-kinetic simulations of collisionless plasma turbulence: The 2D limit. Physics of Plasmas, 2022, 29, .	0.7	4
3	All-electron periodic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>G</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:mr implementation with numerical atomic orbital basis functions: Algorithm and benchmarks. Physical Review Materials, 2021, 5, .	0.9	25
4	FaVAD: A software workflow for characterization and visualizing of defects in crystalline structures. Computer Physics Communications, 2021, 262, 107816.	3.0	4
5	MagIC v5.10: a two-dimensional message-passing interface (MPI) distribution for pseudo-spectral magnetohydrodynamics simulations in spherical geometry. Geoscientific Model Development, 2021, 14, 7477-7495.	1.3	1
6	Validation tests for cryo-EM maps using an independent particle set. Journal of Structural Biology: X, 2020, 4, 100032.	0.7	1
7	NECI: N-Electron Configuration Interaction with an emphasis on state-of-the-art stochastic methods. Journal of Chemical Physics, 2020, 153, 034107.	1.2	55
8	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. Journal of Chemical Physics, 2020, 152, 124119.	1.2	210
9	Evaluation of performance portability frameworks for the implementation of a particleâ€inâ€cell code. Concurrency Computation Practice and Experience, 2020, 32, e5640.	1.4	11
10	nsCouette â€“ A high-performance code for direct numerical simulations of turbulent Taylorâ€“Couette flow. SoftwareX, 2020, 11, 100395.	1.2	9
11	Hydrodynamic turbulence in quasi-Keplerian rotating flows. Physics of Fluids, 2017, 29, .	1.6	12
12	BioEM: GPU-accelerated computing of Bayesian inference of electron microscopy images. Computer Physics Communications, 2017, 210, 163-171.	3.0	27
13	10.1063/1.4981525.1. , 2017, , .		0
14	A hybrid MPI-OpenMP parallel implementation for pseudospectral simulations with application to Taylorâ€“Couette flow. Computers and Fluids, 2015, 106, 1-11.	1.3	20
15	Chloride and organic osmolytes: a hybrid strategy to cope with elevated salinities by the moderately halophilic, chlorideâ€dependent bacterium Halobacillus halophilus. Environmental Microbiology, 2013, 15, 1619-1633.	1.8	45
16	Genome of the Haloarchaeon Natronomonas moolapensis, a Neutrophilic Member of a Previously Haloalkaliphilic Genus. Genome Announcements, 2013, 1, e0009513.	0.8	10
17	Dnmt2-dependent methylomes lack defined DNA methylation patterns. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8627-8631.	3.3	204
18	Haloquadratum walsbyi : Limited Diversity in a Global Pond. PLoS ONE, 2011, 6, e20968.	1.1	97

#	Article	IF	Citations
19	The Complete Genome Sequence of Thermoproteus tenax: A Physiologically Versatile Member of the Crenarchaeota. PLoS ONE, 2011, 6, e24222.	1.1	51
20	A blueprint of ectoine metabolism from the genome of the industrial producer Halomonas elongata DSM 2581^T. Environmental Microbiology, 2011, 13, 1973-1994.	1.8	224
21	Genome information management and integrated data analysis with HaloLex. Archives of Microbiology, 2008, 190, 281-299.	1.0	83
22	Metagenomics to Paleogenomics: Large-Scale Sequencing of Mammoth DNA. Science, 2006, 311, 392-394.	6.0	519
23	The genome of the square archaeon Haloquadratum walsbyi : life at the limits of water activity. BMC Genomics, 2006, 7, 169.	1.2	247
24	The MIGenAS integrated bioinformatics toolkit for web-based sequence analysis. Nucleic Acids Research, 2006, 34, W15-W19.	6.5	16
25	Neutrino-driven supernovae: An accretion instability in a nuclear physics controlled environment. Nuclear Physics A, 2005, 758, 19-26.	0.6	33
26	Supernova Simulations with Boltzmann Neutrino Transport: A Comparison of Methods. Astrophysical Journal, 2005, 620, 840-860.	1.6	270
27	Toward Gravitational Wave Signals from Realistic Coreâ€Collapse Supernova Models. Astrophysical Journal, 2004, 603, 221-230.	1.6	143
28	Explosion Mechanisms of Massive Stars. Astrophysics and Space Science Library, 2004, , 65-97.	1.0	6
29	SUPERNOVA NEUTRINOS: FLAVOR-DEPENDENT FLUXES AND SPECTRA. , 2004, , .		4
30	The mechanism of core-collapse supernovae and the ejection of heavy elements. Nuclear Physics A, 2003, 718, 269-276.	0.6	39
31	Electron Neutrino Pair Annihilation: A New Source for Muon and Tau Neutrinos in Supernovae. Astrophysical Journal, 2003, 587, 320-326.	1.6	109
32	Supernova Explosions and Neutron Star Formation. Lecture Notes in Physics, 2001, , 333-363.	0.3	34
33	Spherically Symmetric Simulation with Boltzmann Neutrino Transport of Core Collapse and Postbounce Evolution of a 15 [ITAL]M[/ITAL][TINF]âŠ™[/TINF] Star. Astrophysical Journal, 2000, 539, L33-L36.	1.6	235
34	Core Collapse and Then? The Route to Massive Star Explosions. , 0, , 39-52.		5