

Markus Rampp

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,757
citations

361045

20
h-index

433756

31
g-index

34
all docs

34
docs citations

34
times ranked

3518
citing authors

#	ARTICLE	IF	CITATIONS
1	Metagenomics to Paleogenomics: Large-Scale Sequencing of Mammoth DNA. <i>Science</i> , 2006, 311, 392-394.	6.0	519
2	Supernova Simulations with Boltzmann Neutrino Transport: A Comparison of Methods. <i>Astrophysical Journal</i> , 2005, 620, 840-860.	1.6	270
3	The genome of the square archaeon <i>Haloquadratum walsbyi</i> : life at the limits of water activity. <i>BMC Genomics</i> , 2006, 7, 169.	1.2	247
4	Spherically Symmetric Simulation with Boltzmann Neutrino Transport of Core Collapse and Postbounce Evolution of a 15 M_{\odot} Star. <i>Astrophysical Journal</i> , 2000, 539, L33-L36.	1.6	235
5	A blueprint of ectoine metabolism from the genome of the industrial producer <i>Halomonas elongata</i> DSM 2581 ^T . <i>Environmental Microbiology</i> , 2011, 13, 1973-1994.	1.8	224
6	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. <i>Journal of Chemical Physics</i> , 2020, 152, 124119.	1.2	210
7	Dnmt2-dependent methylomes lack defined DNA methylation patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8627-8631.	3.3	204
8	Toward Gravitational Wave Signals from Realistic Core-Collapse Supernova Models. <i>Astrophysical Journal</i> , 2004, 603, 221-230.	1.6	143
9	Electron Neutrino Pair Annihilation: A New Source for Muon and Tau Neutrinos in Supernovae. <i>Astrophysical Journal</i> , 2003, 587, 320-326.	1.6	109
10	<i>Haloquadratum walsbyi</i> : Limited Diversity in a Global Pond. <i>PLoS ONE</i> , 2011, 6, e20968.	1.1	97
11	Genome information management and integrated data analysis with HaloLex. <i>Archives of Microbiology</i> , 2008, 190, 281-299.	1.0	83
12	NECI: <i>N</i> -Electron Configuration Interaction with an emphasis on state-of-the-art stochastic methods. <i>Journal of Chemical Physics</i> , 2020, 153, 034107.	1.2	55
13	The Complete Genome Sequence of <i>Thermoproteus tenax</i> : A Physiologically Versatile Member of the Crenarchaeota. <i>PLoS ONE</i> , 2011, 6, e24222.	1.1	51
14	Chloride and organic osmolytes: a hybrid strategy to cope with elevated salinities by the moderately halophilic, chloride-dependent bacterium <i>Halobacillus halophilus</i> . <i>Environmental Microbiology</i> , 2013, 15, 1619-1633.	1.8	45
15	The mechanism of core-collapse supernovae and the ejection of heavy elements. <i>Nuclear Physics A</i> , 2003, 718, 269-276.	0.6	39
16	Supernova Explosions and Neutron Star Formation. <i>Lecture Notes in Physics</i> , 2001, , 333-363.	0.3	34
17	Neutrino-driven supernovae: An accretion instability in a nuclear physics controlled environment. <i>Nuclear Physics A</i> , 2005, 758, 19-26.	0.6	33
18	BioEM: GPU-accelerated computing of Bayesian inference of electron microscopy images. <i>Computer Physics Communications</i> , 2017, 210, 163-171.	3.0	27

#	ARTICLE	IF	CITATIONS
19	All-electron periodic implementation with numerical atomic orbital basis functions: Algorithm and benchmarks. Physical Review Materials, 2021, 5, .	0.9	25
20	A hybrid MPI-OpenMP parallel implementation for pseudospectral simulations with application to Taylor-Couette flow. Computers and Fluids, 2015, 106, 1-11.	1.3	20
21	The MGenAS integrated bioinformatics toolkit for web-based sequence analysis. Nucleic Acids Research, 2006, 34, W15-W19.	6.5	16
22	Hydrodynamic turbulence in quasi-Keplerian rotating flows. Physics of Fluids, 2017, 29, .	1.6	12
23	Evaluation of performance portability frameworks for the implementation of a particle-in-cell code. Concurrency Computation Practice and Experience, 2020, 32, e5640.	1.4	11
24	Genome of the Haloarchaeon Natronomonas moolapensis, a Neutrophilic Member of a Previously Haloalkaliphilic Genus. Genome Announcements, 2013, 1, e0009513.	0.8	10
25	nsCouette - A high-performance code for direct numerical simulations of turbulent Taylor-Couette flow. SoftwareX, 2020, 11, 100395.	1.2	9
26	Explosion Mechanisms of Massive Stars. Astrophysics and Space Science Library, 2004, , 65-97.	1.0	6
27	Core Collapse and Then? The Route to Massive Star Explosions. , 0, , 39-52.		5
28	FaVAD: A software workflow for characterization and visualizing of defects in crystalline structures. Computer Physics Communications, 2021, 262, 107816.	3.0	4
29	SUPERNOVA NEUTRINOS: FLAVOR-DEPENDENT FLUXES AND SPECTRA. , 2004, , .		4
30	An efficient particle tracking algorithm for large-scale parallel pseudo-spectral simulations of turbulence. Computer Physics Communications, 2022, 278, 108406.	3.0	4
31	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
32	Validation tests for cryo-EM maps using an independent particle set. Journal of Structural Biology: X, 2020, 4, 100032.	0.7	1
33	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
34	10.1063/1.4981525.1., 2017, , .		0