Hal Finkel

List of Publications by Year
in descending order

		759233	794594
19	855	12	19
papers	citations	h-index	g-index

19	19	19	1322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HACC: Simulating sky surveys on state-of-the-art supercomputing architectures. New Astronomy, 2016, 42, 49-65.	1.8	166
2	THE MIRAâ€“TITAN UNIVERSE: PRECISION PREDICTIONS FOR DARK ENERGY SURVEYS. Astrophysical Journal, 2016, 820, 108.	4.5	100
3	The Mira-Titan Universe. II. Matter Power Spectrum Emulation. Astrophysical Journal, 2017, 847, 50.	4.5	98
4	<tt>GRChombo</tt> : Numerical relativity with adaptive mesh refinement. Classical and Quantum Gravity, 2015, 32, 245011.	4.0	83
5	Halo Profiles and the Concentrationâ€“Mass Relation for a Î›CDM Universe. Astrophysical Journal, 2018, 859, 55.	4.5	83
6	COSMIC EMULATION: FAST PREDICTIONS FOR THE GALAXY POWER SPECTRUM. Astrophysical Journal, 2015, 810, 35.	4.5	74
7	The Outer Rim Simulation: A Path to Many-core Supercomputers. Astrophysical Journal, Supplement Series, 2019, 245, 16.	7.7	67
8	THE Q CONTINUUM SIMULATION: HARNESSING THE POWER OF GPU ACCELERATED SUPERCOMPUTERS. Astrophysical Journal, Supplement Series, 2015, 219, 34.	7.7	41
9	GRChombo: An adaptable numerical relativity code for fundamental physics. Journal of Open Source Software, 2021, 6, 3703.	4.6	34
10	SIMULATIONS OF THE PAIRWISE KINEMATIC SUNYAEVâ€“ZELâ€™DOVICH SIGNAL. Astrophysical Journal, 2016, 823, 98.	4.5	32
11	HACC Cosmological Simulations: First Data Release. Astrophysical Journal, Supplement Series, 2019, 244, 17.	7.7	17
12	The Borg Cube Simulation: Cosmological Hydrodynamics with CRK-SPH. Astrophysical Journal, 2019, 877, 85.	4.5	14
13	The Last Journey. I. An Extreme-scale Simulation on the Mira Supercomputer. Astrophysical Journal, Supplement Series, 2021, 252, 19.	7.7	12
14	The TRegion Interface and Compiler Optimizations for OpenMP Target Regions. Lecture Notes in Computer Science, 2019, , 153-167.	1.3	12
15	Compiler Optimizations for OpenMP. Lecture Notes in Computer Science, 2018, , 113-127.	1.3	8
16	Evaluation of a Floating-Point Intensive Kernel on FPGA. Lecture Notes in Computer Science, 2018, , 664-675.	1.3	8
17	Performance Exploration Through Optimistic Static Program Annotations. Lecture Notes in Computer Science, 2019, , 247-268.	1.3	2
18	Compiler Optimizations for Parallel Programs. Lecture Notes in Computer Science, 2019, , 112-119.	1.3	2

#	Article	IF	Citations
19	Evaluating LULESH Kernels on OpenCL FPGA. Lecture Notes in Computer Science, 2019, , 199-213.	1.3	2