Glenn K Lockwood

List of Publications by Year
in descending order

30 papers	1,096 citations	1039406 9 h-index	1058022 14 g-index
31 all docs	31 docs citations	31 times ranked	2052 citing authors

#	Article	IF	Citations
1	An empirical study of I/O separation for burst buffers in HPC systems. Journal of Parallel and Distributed Computing, 2021, 148, 96-108.	2.7	11
2	Performance characterization of scientific workflows for the optimal use of Burst Buffers. Future Generation Computer Systems, 2020, 110, 468-480.	4.9	13
3	BBOS: Efficient HPC Storage Management via Burst Buffer Over-Subscription. , 2020, , .		5
4	Superfacility: The Convergence of Data, Compute, Networking, Analytics and Software. , 2020, , 361-386.		1
5	Adaptive Learning for Concept Drift in Application Performance Modeling. , 2019, , .		2
6	A Zoom-in Analysis of I/O Logs to Detect Root Causes of I/O Performance Bottlenecks. , 2019, , .		9
7	Understanding Data Motion in the Modern HPC Data Center. , 2019, , .		7
8	Revisiting I/O behavior in large-scale storage systems. , 2019, , .		32
9	GPCNeT. , 2019, , .		25
10	A Quantitative Approach to Architecting All-Flash Lustre File Systems. Lecture Notes in Computer Science, 2019, , 183-197.	1.0	4
11	Evaluation of HPC Application I/O on Object Storage Systems. , 2018, , .		13
12	A Year in the Life of a Parallel File System. , 2018, , .		34
13	IOMiner: Large-Scale Analytics Framework for Gaining Knowledge from I/O Logs. , 2018, , .		20
14	Accelerating a Burst Buffer Via User-Level I/O Isolation. , 2017, , .		12
15	UMAMI. , 2017, , .		24
16	Modular HPC I/O Characterization with Darshan. , 2016, , .		42
17	Haplotyping germline and cancer genomes with high-throughput linked-read sequencing. Nature Biotechnology, 2016, 34, 303-311.	9.4	617
18	Storage utilization in the long tail of science. , 2015, , .		4

#	Article	IF	Citations
19	Group-based variant calling leveraging next-generation supercomputing for large-scale whole-genome sequencing studies. BMC Bioinformatics, 2015, 16, 304.	1.2	12
20	Efficient 3D Movement-Based Kernel Density Estimator and Application to Wildlife Ecology. , 2014, , .		2
21	SR-IOV. , 2014, , .		14
22	Proton Dynamics at the Waterâ€“Silica Interface via Dissociative Molecular Dynamics. Journal of Physical Chemistry C, 2014, 118, 29750-29759.	1.5	34
23	Reactive simulations of the activation barrier to dissolution of amorphous silica in water. Physical Chemistry Chemical Physics, 2014, 16, 9294-9301.	1.3	37
24	Performance of Applications using Dual-Rail InfiniBand 3D Torus network on the Gordon Supercomputer. , 2014, , .		1
25	Lifetimes of Excess Protons in Water Using a Dissociative Water Potential. Journal of Physical Chemistry B, 2013, 117, 4089-4097.	1.2	32
26	Reactions between water and vitreous silica during irradiation. Journal of Nuclear Materials, 2012, 430, 239-245.	1.3	4
27	Development of a Transferable Variable Charge Potential for the Study of Energy Conversion Materials FeF₂ and FeF₃. Journal of Physical Chemistry C, 2011, 115, 24198-24205.	1.5	14
28	Effect of moisture on the self-healing of vitreous silica under irradiation. Journal of Nuclear Materials, 2010, 400, 73-78.	1.3	8
29	Bridging oxygen as a site for proton adsorption on the vitreous silica surface. Journal of Chemical Physics, 2009, 131, 074703.	1.2	55
30	Anisotropic Dissolution of Î±-Alumina (0001) and (1120) Surfaces into Adjoining Silicates. Journal of the American Ceramic Society, 2008, 91, 3536-3541.	1.9	4