Norbert Podhorszki

List of Publications by Year
in descending order

15	368	1307594 7	1058476 14
papers	citations	h-index	g-index

18	18	18	285
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hello ADIOS: the challenges and lessons of developing leadership class I/O frameworks. Concurrency Computation Practice and Experience, 2014, 26, 1453-1473.	2.2	170
2	ADIOS 2: The Adaptable Input Output System. A framework for high-performance data management. SoftwareX, 2020, 12, 100561.	2.6	102
3	Canopus: A Paradigm Shift Towards Elastic Extreme-Scale Data Analytics on HPC Storage. , 2017, , .		16
4	MGARD+: Optimizing Multilevel Methods for Error-Bounded Scientific Data Reduction. IEEE Transactions on Computers, 2022, 71, 1522-1536.	3.4	13
5	Spatial coupling of gyrokinetic simulations, a generalized scheme based on first-principles. Physics of Plasmas, 2021, 28, .	1.9	12
6	The Exascale Framework for High Fidelity coupled Simulations (EFFIS): Enabling whole device modeling in fusion science. International Journal of High Performance Computing Applications, 2022, 36, 106-128.	3.7	11
7	Improving I/O Performance for Exascale Applications Through Online Data Layout Reorganization. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 878-890.	5.6	10
8	Harnessing Data Movement in Virtual Clusters for In-Situ Execution. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 615-629.	5.6	8
9	On the Scalability of Data Reduction Techniques in Current and Upcoming HPC Systems from an Application Perspective. Lecture Notes in Computer Science, 2017, , 15-29.	1.3	5
10	Processing Full-Scale Square Kilometre Array Data on the Summit Supercomputer. , 2020, , .		4
11	Comparing Time-to-Solution for In Situ Visualization Paradigms at Scale. , 2020, , .		4
12	Identifying challenges and opportunities of in-memory computing on large HPC systems. Journal of Parallel and Distributed Computing, 2022, 164, 106-122.	4.1	4
13	In Situ Analysis and Visualization of Fusion Simulations: Lessons Learned. Lecture Notes in Computer Science, 2018, , 230-242.	1.3	2
14	zMesh: Theories and Methods to Exploring Application Characteristics to Improve Lossy Compression Ratio for Adaptive Mesh Refinement. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	2
15	Understanding the Impact of Data Staging for Coupled Scientific Workflows. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4134-4147.	5.6	2