

Justin M Wozniak

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,831
citations

1163065

8
h-index

1125717

13
g-index

37
all docs

37
docs citations

37
times ranked

2230
citing authors

#	ARTICLE	IF	CITATIONS
1	Online data analysis and reduction: An important Co-design motif for extreme-scale computers. International Journal of High Performance Computing Applications, 2021, 35, 617-635.	3.7	6
2	A population data-driven workflow for COVID-19 modeling and learning. International Journal of High Performance Computing Applications, 2021, 35, 483-499.	3.7	22
3	ExaWorks: Workflows for Exascale. , 2021, , .		12
4	Parsl. , 2019, , .		138
5	Managing genomic variant calling workflows with Swift/T. PLoS ONE, 2019, 14, e0211608.	2.5	7
6	MPI jobs within MPI jobs: A practical way of enabling task-level fault-tolerance in HPC workflows. Future Generation Computer Systems, 2019, 101, 576-589.	7.5	10
7	Auxetic metamaterials from disordered networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1384-E1390.	7.1	83
8	Toward Understanding I/O Behavior in HPC Workflows. , 2018, , .		13
9	Extreme-Scale Dynamic Exploration of a Distributed Agent-Based Model With the EMEWS Framework. IEEE Transactions on Computational Social Systems, 2018, 5, 884-895.	4.4	24
10	Experimental evaluation of a flexible I/O architecture for accelerating workflow engines in ultrascale environments. Parallel Computing, 2017, 61, 52-67.	2.1	2
11	Supporting task-level fault-tolerance in HPC workflows by launching MPI jobs inside MPI jobs. , 2017, , .		5
12	Challenges and Opportunities for Dataflow Processing on Exascale Computers. , 2016, , .		2
13	From desktop to Large-Scale Model Exploration with Swift/T. , 2016, 2016, 206-220.		43
14	Interlanguage parallel scripting for distributed-memory scientific computing. , 2015, , .		5
15	Big Data Remote Access Interfaces for Light Source Science. , 2015, , .		10
16	Lessons Learned from Building In Situ Coupling Frameworks. , 2015, , .		22
17	Toward Interlanguage Parallel Scripting for Distributed-Memory Scientific Computing. , 2015, , .		2
18	Porting Ordinary Applications to Blue Gene/Q Supercomputers. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
19	Design and evaluation of the gemtc framework for GPU-enabled many-task computing. , 2014, , .		26
20	Petascale Tcl with NAMD, VMD, and Swift/T. , 2014, , .		9
21	Compiler Techniques for Massively Scalable Implicit Task Parallelism. , 2014, , .		31
22	Big Data Staging with MPI-IO for Interactive X-ray Science. , 2014, , .		9
23	JETS: Language and System Support for Many-Parallel-Task Workflows. Journal of Grid Computing, 2013, 11, 341-360.	3.9	3
24	Swift/T: Large-Scale Application Composition via Distributed-Memory Dataflow Processing. , 2013, , .		92
25	Parallelizing the execution of sequential scripts. , 2013, , .		14
26	Swift/T. ACM SIGPLAN Notices, 2013, 48, 309-310.	0.2	14
27	Turbine: A Distributed-memory Dataflow Engine for High Performance Many-task Applications. Fundamenta Informaticae, 2013, 128, 337-366.	0.4	23
28	Dataflow coordination of data-parallel tasks via MPI 3.0. , 2013, , .		12
29	Design and analysis of data management in scalable parallel scripting. , 2012, , .		14
30	Turbine. , 2012, , .		19
31	AESOP: Expressing Concurrency in High-Performance System Software. , 2012, , .		7
32	Swift: A language for distributed parallel scripting. Parallel Computing, 2011, 37, 633-652.	2.1	319
33	Case studies in storage access by loosely coupled petascale applications. , 2009, , .		15
34	Implementing Reliable Data Structures for MPI Services in High Component Count Systems. Lecture Notes in Computer Science, 2009, , 321-322.	1.3	2
35	Langevin stabilization of molecular dynamics. Journal of Chemical Physics, 2001, 114, 2090-2098.	3.0	814