

Matthias Lieber

List of Publications by Year in descending order

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17
papers

7,420
citations

1478505

6
h-index

1372567

10
g-index

17
all docs

17
docs citations

17
times ranked

14060
citing authors

#	ARTICLE	IF	CITATIONS
1	FFMK: A Fast and Fault-Tolerant Microkernel-Based System for Exascale Computing. Lecture Notes in Computational Science and Engineering, 2020, , 483-516.	0.3	1
2	A Hardware/Software Stack for Heterogeneous Systems. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 243-259.	2.4	12
3	Load Balancing for CPU-GPU Coupling in Computational Fluid Dynamics. Lecture Notes in Computer Science, 2018, , 337-347.	1.3	2
4	Highly scalable SFC-based dynamic load balancing and its application to atmospheric modeling. Future Generation Computer Systems, 2018, 82, 575-590.	7.5	12
5	Detection and Visualization of Performance Variations to Guide Identification of Application Bottlenecks. , 2016, , .		0
6	FFMK: A Fast and Fault-Tolerant Microkernel-Based System for Exascale Computing. Lecture Notes in Computational Science and Engineering, 2016, , 405-426.	0.3	5
7	The Potential of Diffusive Load Balancing at Large Scale. , 2016, , .		4
8	Resilient gossip algorithms for collecting online management information in exascale clusters. Concurrency Computation Practice and Experience, 2015, 27, 4797-4818.	2.2	8
9	Scalable high-quality 1D partitioning. , 2014, , .		3
10	Overhead of a decentralized gossip algorithm on the performance of HPC applications. , 2014, , .		4
11	De novo transcript sequence reconstruction from RNA-seq using the Trinity platform for reference generation and analysis. Nature Protocols, 2013, 8, 1494-1512.	12.0	7,054
12	Trinity RNA-Seq assembler performance optimization. , 2012, , .		46
13	Highly Scalable Dynamic Load Balancing in the Atmospheric Modeling System COSMO-SPECS+FD4. Lecture Notes in Computer Science, 2012, , 131-141.	1.3	13
14	Implementation, performance, and science results from a 30.7 TFLOPS IBM BladeCenter cluster. Concurrency Computation Practice and Experience, 2010, 22, 157-174.	2.2	0
15	FD4: A Framework for Highly Scalable Load Balancing and Coupling of Multiphase Models. AIP Conference Proceedings, 2010, , .	0.4	3
16	Optimizing the coupling in parallel air quality model systems. Environmental Modelling and Software, 2008, 23, 235-243.	4.5	17
17	The Vampir Performance Analysis Tool-Set. , 2008, , 139-155.		236