

Christian R Trott

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

4,198
citations

840776

11
h-index

1125743

13
g-index

18
all docs

18
docs citations

18
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Kokkos 3: Programming Model Extensions for the Exascale Era. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 805-817.	5.6	127
2	LAMMPS - a flexible simulation tool for particle-based materials modeling at the atomic, meso, and continuum scales. Computer Physics Communications, 2022, 271, 108171.	7.5	3,106
3	Towards High Performance Resilience Using Performance Portable Abstractions. Lecture Notes in Computer Science, 2021, , 451-465.	1.3	0
4	The Kokkos EcoSystem: Comprehensive Performance Portability for High Performance Computing. Computing in Science and Engineering, 2021, 23, 10-18.	1.2	30
5	mdspan in C++: A Case Study in the Integration of Performance Portable Features into International Language Standards. , 2019, , .		6
6	Multithreaded sparse matrix-matrix multiplication for many-core and GPU architectures. Parallel Computing, 2018, 78, 33-46.	2.1	38
7	Profiling and Debugging Support for the Kokkos Programming Model. Lecture Notes in Computer Science, 2018, , 743-754.	1.3	4
8	Revisiting Online Autotuning for Sparse-Matrix Vector Multiplication Kernels on Next-Generation Architectures. , 2017, , .		1
9	Kokkos: Enabling manycore performance portability through polymorphic memory access patterns. Journal of Parallel and Distributed Computing, 2014, 74, 3202-3216.	4.1	623
10	SNAP: Strong Scaling High Fidelity Molecular Dynamics Simulations on Leadership-Class Computing Platforms. Lecture Notes in Computer Science, 2014, , 19-34.	1.3	10
11	Evaluating the feasibility of using memory content similarity to improve system resilience. , 2013, , .		3
12	Kokkos: Enabling Performance Portability Across Manycore Architectures. , 2013, , .		60
13	Molecular Dynamics Simulations of Clathrate Hydrates on Specialised Hardware Platforms. Energies, 2012, 5, 3526-3533.	3.1	16
14	Investigation of the Structures of Sodium Borophosphate Glasses by Reverse Monte Carlo Modeling to Examine the Origins of the Mixed Glass Former Effect. Journal of Physical Chemistry C, 2012, 116, 1503-1511.	3.1	31
15	Network forming units in alkali borate and borophosphate glasses and the mixed glass former effect. RSC Advances, 2011, 1, 1370.	3.6	32
16	The development of Mellanox/NVIDIA GPUDirect over InfiniBandâ€”a new model for GPU to GPU communications. Computer Science - Research and Development, 2011, 26, 267-273.	2.7	44
17	Reverse Monte Carlo modeling of ion conducting network glasses: An evaluation based on molecular dynamics simulations. Physical Chemistry Chemical Physics, 2010, 12, 10444.	2.8	17
18	Mixed Barrier Model for the Mixed Glass Former Effect in Ion Conducting Glasses. Physical Review Letters, 2009, 102, 145902.	7.8	50