

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