

Daniel Langr

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

523
citations

1040056

9
h-index

1058476

14
g-index

26
all docs

26
docs citations

26
times ranked

463
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | $\frac{1}{\sqrt{2}}(\frac{1}{\sqrt{2}}(a+b) + \frac{1}{\sqrt{2}}(a-b))$ of Clustering on the Physical Review Letters, 2013, 107, 022501. | 7.8 | 10 |
| 2 | SU3lib: A C++ library for accurate computation of Wigner and Racah coefficients of SU(3). Computer Physics Communications, 2021, 269, 108137. | 7.5 | 5 |
| 3 | Reducing the Impact of Intensive Dynamic Memory Allocations in Parallel Multi-Threaded Programs. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1152-1164. | 5.6 | 0 |
| 4 | Physics of Nuclei: Key Role of an Emergent Symmetry. Physical Review Letters, 2020, 124, 042501. | 7.8 | 55 |
| 5 | Efficient algorithm for representations of U(3) in U(N). Computer Physics Communications, 2019, 244, 442-447. | 7.5 | 12 |
| 6 | Accelerating many-nucleon basis generation for high performance computing enabled ab initio nuclear structure studies. International Journal of High Performance Computing Applications, 2019, 33, 522-533. | 3.7 | 11 |
| 7 | Importance Basis Truncation in the Symmetry-adapted No-core Shell Model. Acta Physica Polonica B, 2019, 50, 541. | 0.8 | 0 |
| 8 | Efficient Parallel Generation of Many-Nucleon Basis for Large-Scale Ab Initio Nuclear Structure Calculations. Lecture Notes in Computer Science, 2018, , 341-350. | 1.3 | 3 |
| 9 | Analysis of Memory Footprints of Sparse Matrices Partitioned Into Uniformly-Sized Blocks. Scalable Computing, 2018, 19, 275-292. | 1.0 | 3 |
| 10 | On Memory Footprints of Partitioned Sparse Matrices. , 2017, , . | | 2 |
| 11 | Efficacy of the SU(3) scheme for ab initio large-scale calculations beyond the lightest nuclei. Computer Physics Communications, 2016, 207, 202-210. | 7.5 | 34 |
| 12 | Evaluation Criteria for Sparse Matrix Storage Formats. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 428-440. | 5.6 | 87 |
| 13 | Space and Execution Efficient Formats for Modern Processor Architectures. , 2015, , . | | 4 |
| 14 | A new parallel and GPU version of a TREOR-based algorithm for indexing powder diffraction data. Journal of Applied Crystallography, 2015, 48, 166-170. | 4.5 | 5 |
| 15 | Downsampling Algorithms for Large Sparse Matrices. International Journal of Parallel Programming, 2015, 43, 679-702. | 1.5 | 2 |
| 16 | Efficient Converting of Large Sparse Matrices to Quadtree Format. , 2014, , . | | 1 |
| 17 | Algorithm 947. ACM Transactions on Mathematical Software, 2014, 41, 1-26. | 2.9 | 140 |
| 18 | Collective Modes in Light Nuclei from First Principles. Physical Review Letters, 2013, 111, 252501. | 7.8 | 103 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Space Efficient Formats for Structure of Sparse Matrices Based on Tree Structures. , 2013, , . | | 3 |
| 20 | The Study of Impact of Matrix-Processor Mapping on the Parallel Sparse Matrix-Vector Multiplication. , 2013, , . | | 1 |
| 21 | SYMMETRY-ADAPTED NO-CORE SHELL MODEL FOR LIGHT NUCLEI. , 2013, , . | | 0 |
| 22 | Space-efficient Sparse Matrix Storage Formats for Massively Parallel Systems. , 2012, , . | | 8 |
| 23 | Minimal Quadtree Format for Compression of Sparse Matrices Storage. , 2012, , . | | 9 |
| 24 | Symmetry-adapted no-core shell model applications for light nuclei with QCD-inspired interactions. Progress in Particle and Nuclear Physics, 2012, 67, 516-520. | 14.4 | 20 |
| 25 | CPP11sort: A parallel quicksort based on C++ threading. Concurrency Computation Practice and Experience, 0, , e6606. | 2.2 | 2 |
| 26 | Block Iterators for Sparse Matrices. , 0, , . | | 3 |