Daniel Langr

List of Publications by Year
in descending order

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	Algorithm 947. ACM Transactions on Mathematical Software, 2014, 41, 1-26.	2.9	140
2	Collective Modes in Light Nuclei from First Principles. Physical Review Letters, 2013, 111, 252501.	7.8	103
3	Evaluation Criteria for Sparse Matrix Storage Formats. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 428-440.	5.6	87
4	Physics of Nuclei: Key Role of an Emergent Symmetry. Physical Review Letters, 2020, 124, 042501.	7.8	55
5	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
6	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
7	Efficient algorithm for representations of U(3) in U(N). Computer Physics Communications, 2019, 244, 442-447.	7.5	12
8	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
9	Clustering on the $^8\mathrm{Li}$ β Decay and Recoil Form Factors. Physical Review Lette	7.8	10
10	Minimal Quadtree Format for Compression of Sparse Matrices Storage. , 2012, , .		9
11	Space-efficient Sparse Matrix Storage Formats for Massively Parallel Systems. , 2012, , .		8
12	A new parallel and GPU version of aTREOR-based algorithm for indexing powder diffraction data. Journal of Applied Crystallography, 2015, 48, 166-170.	4.5	5
13	SU3lib: A C++ library for accurate computation of Wigner and Racah coefficients of SU(3). Computer Physics Communications, 2021, 269, 108137.	7.5	5
14	Space and Execution Efficient Formats for Modern Processor Architectures. , 2015, , .		4
15	Space Efficient Formats for Structure of Sparse Matrices Based on Tree Structures. , 2013, , .		3
16	Efficient Parallel Generation ofÂMany-Nucleon Basis for Large-Scale Ab Initio Nuclear Structure Calculations. Lecture Notes in Computer Science, 2018, , 341-350.	1.3	3
17	Analysis of Memory Footprints of Sparse Matrices Partitioned Into Uniformly-Sized Blocks. Scalable Computing, 2018, 19, 275-292.	1.0	3
18	Block Iterators for Sparse Matrices. , 0, , .		3

#	Article	IF	Citations
19	Downsampling Algorithms for Large Sparse Matrices. International Journal of Parallel Programming, 2015, 43, 679-702.	1.5	2
20	On Memory Footprints of Partitioned Sparse Matrices. , 2017, , .		2
21	CPP11sort: A parallel quicksort based on C++ threading. Concurrency Computation Practice and Experience, 0, , e6606.	2.2	2
22	The Study of Impact of Matrix-Processor Mapping on the Parallel Sparse Matrix-Vector Multiplication. , 2013, , .		1
23	Efficient Converting of Large Sparse Matrices to Quadtree Format. , 2014, , .		1
24	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
25	SYMMETRY-ADAPTED NO-CORE SHELL MODEL FOR LIGHT NUCLEI. , 2013, , .		0
26	Importance Basis Truncation in the Symmetry-adapted No-core Shell Model. Acta Physica Polonica B, 2019, 50, 541.	0.8	0