

Gerald Baumgartner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11313148/publications.pdf>

Version: 2024-02-01

16
papers

290
citations

1163117

8
h-index

1058476

14
g-index

17
all docs

17
docs citations

17
times ranked

207
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic code generation for many-body electronic structure methods: the tensor contraction engine. Molecular Physics, 2006, 104, 211-228.	1.7	104
2	Space-time trade-off optimization for a class of electronic structure calculations. , 2002, , .		37
3	Performance Optimization of Tensor Contraction Expressions for Many-Body Methods in Quantum Chemistry. Journal of Physical Chemistry A, 2009, 113, 12715-12723.	2.5	24
4	Signatures: A language extension for improving type abstraction and subtype polymorphism in C++. Software - Practice and Experience, 1995, 25, 863-889.	3.6	20
5	Automated Operation Minimization of Tensor Contraction Expressions in Electronic Structure Calculations. Lecture Notes in Computer Science, 2005, , 155-164.	1.3	16
6	Memory-optimal evaluation of expression trees involving large objects. Computer Languages, Systems and Structures, 2011, 37, 63-75.	1.4	16
7	Empirical performance model-driven data layout optimization and library call selection for tensor contraction expressions. Journal of Parallel and Distributed Computing, 2012, 72, 338-352.	4.1	13
8	Data Locality Optimization for Synthesis of Efficient Out-of-Core Algorithms. Lecture Notes in Computer Science, 2003, , 406-417.	1.3	13
9	Optimization of Memory Usage Requirement for a Class of Loops Implementing Multi-dimensional Integrals. Lecture Notes in Computer Science, 2000, , 350-364.	1.3	12
10	Implementing signatures for C++. ACM Transactions on Programming Languages and Systems, 1997, 19, 153-187.	2.1	9
11	Efficient synthesis of out-of-core algorithms using a nonlinear optimization solver. Journal of Parallel and Distributed Computing, 2006, 66, 659-673.	4.1	6
12	Efficient search-space pruning for integrated fusion and tiling transformations. Concurrency Computation Practice and Experience, 2007, 19, 2425-2443.	2.2	4
13	Layout transformation support for the disk resident arrays framework. Journal of Supercomputing, 2006, 36, 153-170.	3.6	3
14	A Vector-Scheduling Approach for Running Many-Task Applications in the Cloud. Lecture Notes in Computer Science, 2018, , 3-19.	1.3	2
15	A Hybrid Cloud Framework for Scientific Computing. , 2015, , .		0
16	Organizational Social Media Use and Community Social Capital: Disparities by Poverty and Racial Composition. Journal of Poverty, 0, , 1-17.	1.1	0