

# Ulrike Meier Yang

## List of Publications by Year in descending order

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21  
papers

1,539  
citations

932766

10  
h-index

1125271

13  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1010  
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Class of AMG Interpolation Methods Based on Matrix-Matrix Multiplications. SIAM Journal of Scientific Computing, 2021, 43, S540-S564.	1.3	6
2	Porting hypre to heterogeneous computer architectures: Strategies and experiences. Parallel Computing, 2021, 108, 102840.	1.3	8
3	Scalability of Classical Algebraic Multigrid for Elasticity to Half a Million Parallel Tasks. Lecture Notes in Computational Science and Engineering, 2016, , 113-140.	0.1	13
4	High-performance algebraic multigrid solver optimized for multi-core based distributed parallel systems. , 2015, , .		16
5	Algebraic Multigrid on a Dragonfly Network: First Experiences on a Cray XC30. Lecture Notes in Computer Science, 2015, , 3-23.	1.0	2
6	Reducing communication in algebraic multigrid using additive variants. Numerical Linear Algebra With Applications, 2014, 21, 275-296.	0.9	21
7	Systematic Reduction of Data Movement in Algebraic Multigrid Solvers. , 2013, , .		3
8	Modeling the Performance of an Algebraic Multigrid Cycle Using Hybrid MPI/OpenMP. , 2012, , .		18
9	Performance Modeling of Algebraic Multigrid on Blue Gene/Q: Lessons Learned. , 2012, , .		5
10	Scaling Hypre™s Multigrid Solvers to 100,000 Cores. , 2012, , 261-279.		60
11	Multigrid Smoothers for Ultraparallel Computing. SIAM Journal of Scientific Computing, 2011, 33, 2864-2887.	1.3	113
12	Modeling the performance of an algebraic multigrid cycle on HPC platforms. , 2011, , .		59
13	On long-range interpolation operators for aggressive coarsening. Numerical Linear Algebra With Applications, 2010, 17, 453-472.	0.9	27
14	Distance-two interpolation for parallel algebraic multigrid. Numerical Linear Algebra With Applications, 2008, 15, 115-139.	0.9	78
15	Parallel Algebraic Multigrid Methods " High Performance Preconditioners. , 2006, , 209-236.		42
16	Reducing Complexity in Parallel Algebraic Multigrid Preconditioners. SIAM Journal on Matrix Analysis and Applications, 2006, 27, 1019-1039.	0.7	147
17	The Design and Implementation of hypre, a Library of Parallel High Performance Preconditioners. , 2006, , 267-294.		159
18	Conceptual interfaces in hypre. Future Generation Computer Systems, 2006, 22, 239-251.	4.9	21

#	ARTICLE	IF	CITATIONS
19	Pursuing scalability for hypre 's conceptual interfaces. ACM Transactions on Mathematical Software, 2005, 31, 326-350.	1.6	67
20	On the use of relaxation parameters in hybrid smoothers. Numerical Linear Algebra With Applications, 2004, 11, 155-172.	0.9	32
21	BoomerAMG: A parallel algebraic multigrid solver and preconditioner. Applied Numerical Mathematics, 2002, 41, 155-177.	1.2	642