Mario Bebendorf

List of Publications by Year
in descending order

11 papers	1,043 citations	1163117 8 h-index	1372567 10 g-index
11 all docs	11 docs citations	11 times ranked	518 citing authors

#	Article	IF	Citations
1	Hierarchical‐matrix method for a class of diffusion‐dominated partial integro‐differential equations. Numerical Linear Algebra With Applications, 2022, 29, e2410.	1.6	0
2	Block-Adaptive Cross Approximation of Discrete Integral Operators. Computational Methods in Applied Mathematics, 2021, 21, 13-29.	0.8	1
3	Low-Rank Approximation of Elliptic Boundary Value Problems with High-Contrast Coefficients. SIAM Journal on Mathematical Analysis, 2016, 48, 932-949.	1.9	38
4	Hierarchical Matrix Preconditioning for Low-Frequency–Full-Maxwell Simulations. Proceedings of the IEEE, 2013, 101, 423-433.	21.3	8
5	${\cal H}$-Matrix-Based Operator Preconditioning for Full Maxwell at Low Frequencies. IEEE Transactions on Magnetics, 2010, 46, 3193-3196.	2.1	9
6	Why Finite Element Discretizations Can Be Factored by Triangular Hierarchical Matrices. SIAM Journal on Numerical Analysis, 2007, 45, 1472-1494.	2.3	53
7	Fast BEM for Eddy-Current Problems Using H-Matrices and Adaptive Cross Approximation. IEEE Transactions on Magnetics, 2007, 43, 1269-1272.	2.1	17
8	Approximate Inverse Preconditioning of Finite Element Discretizations of Elliptic Operators with Nonsmooth Coefficients. SIAM Journal on Matrix Analysis and Applications, 2006, 27, 909-929.	1.4	15
9	Efficient inversion of the Galerkin matrix of general second-order elliptic operators with nonsmooth coefficients. Mathematics of Computation, 2004, 74, 1179-1200.	2.1	83
10	Existence of ?-matrix approximants to the inverse FE-matrix of elliptic operators with L?-coefficients. Numerische Mathematik, 2003, 95, 1-28.	1.9	178
11	Approximation of boundary element matrices. Numerische Mathematik, 2000, 86, 565-589.	1.9	641