Marcus Sarkis

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10474238/publications.pdf

Version: 2024-02-01

34 papers	1,045 citations	623734 14 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	545 citing authors

#	Article	IF	Citations
1	Hybrid Localized Spectral Decomposition for Multiscale Problems. SIAM Journal on Numerical Analysis, 2021, 59, 829-863.	2.3	7
2	Robust flux error estimation of an unfitted Nitsche method for high-contrast interface problems. IMA Journal of Numerical Analysis, 2018, 38, 646-668.	2.9	23
3	On high-order conservative finite element methods. Computers and Mathematics With Applications, 2018, 75, 1852-1867.	2.7	6
4	On High-Order Approximation and Stability with Conservative Properties. Lecture Notes in Computational Science and Engineering, 2018, , 253-260.	0.3	0
5	A Finite Element Method for High-Contrast Interface Problems with Error Estimates Independent of Contrast. Journal of Scientific Computing, 2017, 73, 330-365.	2.3	32
6	A Deluxe FETI-DP Method for Full DG Discretization of Elliptic Problems. Lecture Notes in Computational Science and Engineering, 2016, , 157-165.	0.3	0
7	The analysis of a FETI-DP preconditioner for a full DG discretization of elliptic problems in two dimensions. Numerische Mathematik, 2015, 131, 737-770.	1.9	7
8	A Deluxe FETI-DP Preconditioner for a Composite Finite Element and DG Method. Computational Methods in Applied Mathematics, 2015, 15, 465-482.	0.8	1
9	3-D FETI-DP Preconditioners for Composite Finite Element-Discontinuous Galerkin Methods. Lecture Notes in Computational Science and Engineering, 2014, , 127-140.	0.3	2
10	A FETI-DP Preconditioner for a Composite Finite Element and Discontinuous Galerkin Method. SIAM Journal on Numerical Analysis, 2013, 51, 400-422.	2.3	23
11	New Theoretical Coefficient Robustness Results for FETI-DP. Lecture Notes in Computational Science and Engineering, 2013, , 313-320.	0.3	10
12	Neumannâ€Neumann methods for a DG discretization on geometrically nonconforming substructures. Numerical Methods for Partial Differential Equations, 2012, 28, 1194-1226.	3.6	10
13	Technical Tools for Boundary Layers and Applications to Heterogeneous Coefficients. Lecture Notes in Computational Science and Engineering, 2011, , 205-212.	0.3	9
14	Nâ€“N Solvers for a DG Discretization for Geometrically Nonconforming Substructures and Discontinuous Coefficients. Lecture Notes in Computational Science and Engineering, 2011, , 27-38.	0.3	6
15	FETI-DP for Stokes-Mortar-Darcy Systems. Lecture Notes in Computational Science and Engineering, 2011, , 221-228.	0.3	1
16	FETI and BDD preconditioners for Stokesâ€“Mortarâ€“Darcy Systems. Communications in Applied Mathematics and Computational Science, 2010, 5, 1-30.	1.8	29
17	Convergence Analysis for The Numerical Boundary Corrector for Elliptic Equations with Rapidly Oscillating Coefficients. SIAM Journal on Numerical Analysis, 2008, 46, 545-576.	2.3	15
18	Balancing Domain Decomposition Methods for Discontinuous Galerkin Discretization. Lecture Notes in Computational Science and Engineering, 2008, , 271-278.	0.3	9

#	Article	IF	Citations
19	CONTINUOUS Q1â€“Q1 STOKES ELEMENTS STABILIZED WITH NON-CONFORMING NULL EDGE AVERAGE VELOCITY FUNCTIONS. Mathematical Models and Methods in Applied Sciences, 2007, 17, 439-459.	3.3	5
20	Restricted overlapping balancing domain decomposition methods and restricted coarse problems for the Helmholtz problem. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1507-1514.	6.6	28
21	Optimal left and right additive Schwarz preconditioning for minimal residual methods with Euclidean and energy norms. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1612-1621.	6.6	21
22	BDDC methods for discontinuous Galerkin discretization of elliptic problems. Journal of Complexity, 2007, 23, 715-739.	1.3	75
23	Balancing Domain Decomposition Methods for Mortar Coupling Stokes-Darcy Systems. , 2007, , 373-380.		10
24	A Proposal for a Dynamically Adapted Inexact Additive Schwarz Preconditioner. , 2007, , 341-345.		0
25	Restricted Additive Schwarz Preconditioners with Harmonic Overlap for Symmetric Positive Definite Linear Systems. SIAM Journal on Numerical Analysis, 2003, 41, 1209-1231.	2.3	52
26	Singular Function Mortar Finite Element Methods. Computational Methods in Applied Mathematics, 2003, 3, 202-218.	0.8	0
27	Partition of Unity Coarse Spaces and Schwarz Methods with Harmonic Overlap. Lecture Notes in Computational Science and Engineering, 2002, , 77-94.	0.3	8
28	A Coarse Space for Elasticity. , 2002, , 261-273.		0
29	Domain Decomposition Methods. , 2002, , 3-29.		3
30	A linearized method for the frequency analysis of three-dimensional fluid/structure interaction problems in all flow regimes. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3121-3146.	6.6	66
31	A scaled and minimum overlap restricted additive Schwarz method with application to aerodynamics. Computer Methods in Applied Mechanics and Engineering, 2000, 184, 391-400.	6.6	15
32	Overlapping Nonmatching Grid Mortar Element Methods for Elliptic Problems. SIAM Journal on Numerical Analysis, 1999, 36, 581-606.	2.3	45
33	A Restricted Additive Schwarz Preconditioner for General Sparse Linear Systems. SIAM Journal of Scientific Computing, 1999, 21, 792-797.	2.8	443
34	Nonstandard coarse spaces and Schwarz methods for elliptic problems with discontinuous coefficients using non-conforming elements. Numerische Mathematik, 1997, 77, 383-406.	1.9	72