

Bedrich Sousedik

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

425
citations

1040056

9
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794594

19
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26
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26
docs citations

26
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive selection of face coarse degrees of freedom in the BDDC and the FETI-DP iterative substructuring methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 1389-1399.	6.6	84
2	Multispace and multilevel BDDC. <i>Computing (Vienna/New York)</i> , 2008, 83, 55-85.	4.8	62
3	Adaptive BDDC in three dimensions. <i>Mathematics and Computers in Simulation</i> , 2012, 82, 1812-1831.	4.4	54
4	Adaptive-Multilevel BDDC and its parallel implementation. <i>Computing (Vienna/New York)</i> , 2013, 95, 1087-1119.	4.8	36
5	Hierarchical Schur complement preconditioner for the stochastic Galerkin finite element methods. <i>Numerical Linear Algebra With Applications</i> , 2014, 21, 136-151.	1.6	31
6	BDDC and FETI-DP under minimalist assumptions. <i>Computing (Vienna/New York)</i> , 2007, 81, 269-280.	4.8	24
7	Application of the parallel BDDC preconditioner to the Stokes flow. <i>Computers and Fluids</i> , 2011, 46, 429-435.	2.5	24
8	Stochastic Galerkin methods for the steady-state Navier–Stokes equations. <i>Journal of Computational Physics</i> , 2016, 316, 435-452.	3.8	19
9	TRUNCATED HIERARCHICAL PRECONDITIONING FOR THE STOCHASTIC GALERKIN FEM. , 2014, 4, 333-348.		18
10	A posteriori error estimates applied to flow in a channel with corners. <i>Mathematics and Computers in Simulation</i> , 2003, 61, 375-383.	4.4	11
11	Inverse Subspace Iteration for Spectral Stochastic Finite Element Methods. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2016, 4, 163-189.	2.0	9
12	BDDC for mixed–hybrid formulation of flow in porous media with combined mesh dimensions. <i>Numerical Linear Algebra With Applications</i> , 2015, 22, 903-929.	1.6	8
13	A Low-Rank Solver for the Navier–Stokes Equations with Uncertain Viscosity. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2019, 7, 1275-1300.	2.0	8
14	Nested BDDC for a saddle-point problem. <i>Numerische Mathematik</i> , 2013, 125, 761-783.	1.9	7
15	A posteriori error estimates and adaptive mesh refinement for the Stokes–Brinkman problem. <i>Mathematics and Computers in Simulation</i> , 2019, 166, 266-282.	4.4	6
16	Adaptive Coarse Space Selection in the BDDC and the FETI-DP Iterative Substructuring Methods: Optimal Face Degrees of Freedom. , 2007, , 421-428.		5
17	On Adaptive-Multilevel BDDC. <i>Lecture Notes in Computational Science and Engineering</i> , 2011, , 39-50.	0.3	5
18	Inexact Methods for Symmetric Stochastic Eigenvalue Problems. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018, 6, 1744-1776.	2.0	3

#	ARTICLE	IF	CITATIONS
19	On adaptive BDDC for the flow in heterogeneous porous media. , 2019, 64, 309-334.		2
20	Application of adaptive ANOVA and reduced basis methods to the stochastic Stokes-Brinkman problem. Computational Geosciences, 2021, 25, 1191-1213.	2.4	2
21	Finite Element Mesh Adjusted to Singularities Applied to Axisymmetric and Plane Flow. , 2004, , 186-195.		0
22	A Parallel Implementation of the BDDC Method for the Stokes Flow. , 2011, , 807-812.		0
23	Inexact and primal multilevel FETIâ€”DP methods: a multilevel extension and interplay with BDDC. International Journal for Numerical Methods in Engineering, 0, , .	2.8	0