

Do Young Kwak

List of Publications by Year in descending order

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21
papers

277
citations

1163117

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21
all docs

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21
times ranked

144
citing authors

#	ARTICLE	IF	CITATIONS
1	An Analysis of a Broken P_1 -Nonconforming Finite Element Method for Interface Problems. SIAM Journal on Numerical Analysis, 2010, 48, 2117-2134.	2.3	72
2	Optimal convergence analysis of an immersed interface finite element method. Advances in Computational Mathematics, 2010, 33, 149-168.	1.6	59
3	A stabilized P_1 -nonconforming immersed finite element method for the interface elasticity problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 187-207.	1.9	28
4	An IMPES scheme for a two-phase flow in heterogeneous porous media using a structured grid. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 684-701.	6.6	19
5	Characteristic-mixed covolume methods for advection-dominated diffusion problems. Numerical Linear Algebra With Applications, 2006, 13, 677-697.	1.6	14
6	Geometric multigrid algorithms for elliptic interface problems using structured grids. Numerical Algorithms, 2019, 81, 211-235.	1.9	14
7	Multigrid algorithm for the cell-centered finite difference method II: discontinuous coefficient case. Numerical Methods for Partial Differential Equations, 2004, 20, 742-764.	3.6	13
8	Mixed finite element methods for general quadrilateral grids. Applied Mathematics and Computation, 2011, 217, 6556-6565.	2.2	12
9	Lowest-order virtual element methods for linear elasticity problems. Computer Methods in Applied Mechanics and Engineering, 2022, 390, 114448.	6.6	10
10	Immersed finite element method for eigenvalue problem. Journal of Computational and Applied Mathematics, 2017, 313, 410-426.	2.0	9
11	An Immersed Finite Element Method for the Elasticity Problems with Displacement Jump. Advances in Applied Mathematics and Mechanics, 2017, 9, 407-428.	1.2	7
12	A Reduced Crouzeix-Raviart Immersed Finite Element Method for Elasticity Problems with Interfaces. Computational Methods in Applied Mathematics, 2020, 20, 501-516.	0.8	5
13	Locally Conservative Immersed Finite Element Method for Elliptic Interface Problems. Journal of Scientific Computing, 2021, 87, 1.	2.3	3
14	A Semi-Uniform Multigrid Algorithm for Solving Elliptic Interface Problems. Computational Methods in Applied Mathematics, 2021, 21, 127-143.	0.8	3
15	A nonconforming covolume method for elliptic problems. Applied Mathematics and Computation, 2008, 196, 60-66.	2.2	2
16	Enriched P_1 -Conforming Methods for Elliptic Interface Problems with Implicit Jump Conditions. Advances in Mathematical Physics, 2018, 2018, 1-9.	0.8	2
17	Mixed virtual volume methods for elliptic problems. Computers and Mathematics With Applications, 2022, 113, 345-352.	2.7	2
18	Superconvergence of new mixed finite element spaces. Journal of Computational and Applied Mathematics, 2011, 235, 4265-4271.	2.0	1

#	ARTICLE	IF	CITATIONS
19	A flux preserving immersed nonconforming finite element method for elliptic problems. Applied Numerical Mathematics, 2014, 81, 94-104.	2.1	1
20	A formal construction of a divergence-free basis in the nonconforming virtual element method for the Stokes problem. Numerical Algorithms, 0, , 1.	1.9	1
21	New curl conforming finite elements on parallelepiped. Numerische Mathematik, 2015, 131, 473-488.	1.9	0