Eun-Jae Park

List of Publications by Year
in descending order

77 papers	1,073 citations	430874 18 h-index	477307 29 g-index
77 all docs	77 docs citations	77 times ranked	434 citing authors

#	Article	IF	Citations
1	Mixed Finite Element Methods for Nonlinear Second-Order Elliptic Problems. SIAM Journal on Numerical Analysis, 1995, 32, 865-885.	2.3	79
2	Static conductivity imaging using variational gradientBzalgorithm in magnetic resonance electrical impedance tomography. Physiological Measurement, 2004, 25, 257-269.	2.1	70
3	Mixed finite element methods for generalized Forchheimer flow in porous media. Numerical Methods for Partial Differential Equations, 2005, 21, 213-228.	3.6	70
4	Fully discrete mixed finite element approximations for non-Darcy flows in porous media. Computers and Mathematics With Applications, 1999, 38, 113-129.	2.7	44
5	A Priori and A Posteriori Pseudostress-velocity Mixed Finite Element Error Analysis for the Stokes Problem. SIAM Journal on Numerical Analysis, 2011, 49, 2501-2523.	2.3	44
6	A mixed finite element method for a strongly nonlinear second-order elliptic problem. Mathematics of Computation, 1995, 64, 973-988.	2.1	36
7	A priori and a posteriori error analysis of a staggered discontinuous Galerkin method for convection dominant diffusion equations. Journal of Computational and Applied Mathematics, 2019, 346, 63-83.	2.0	31
8	A MULTISCALE MORTAR MIXED FINITE ELEMENT METHOD FOR SLIGHTLY COMPRESSIBLE FLOWS IN POROUS MEDIA. Journal of the Korean Mathematical Society, 2007, 44, 1103-1119.	0.4	31
9	Asymptotic behavior for an SIS epidemic model and its approximation. Nonlinear Analysis: Theory, Methods & Applications, 1999, 35, 797-814.	1.1	29
10	Mixed approximation of a population diffusion equation. Computers and Mathematics With Applications, 1995, 30, 23-33.	2.7	28
11	Convergence and Optimality of Adaptive Least Squares Finite Element Methods. SIAM Journal on Numerical Analysis, 2015, 53, 43-62.	2.3	28
12	An upwind scheme for a nonlinear model in age-structured population dynamics. Computers and Mathematics With Applications, 1995, 30, 5-17.	2.7	27
13	A posteriori error estimator for expanded mixed hybrid methods. Numerical Methods for Partial Differential Equations, 2007, 23, 330-349.	3.6	27
14	A posteriori error estimators for the upstream weighting mixed methods for convection diffusion problems. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 806-820.	6.6	26
15	A Hybrid Discontinuous Galerkin Method for Elliptic Problems. SIAM Journal on Numerical Analysis, 2010, 48, 1968-1983.	2.3	25
16	Splitting methods for the numerical approximation of some models of age-structured population dynamics and epidemiology. Applied Mathematics and Computation, 1997, 87, 69-93.	2.2	24
17	A Priori and A Posteriori Analysis of Mixed Finite Element Methods for Nonlinear Elliptic Equations. SIAM Journal on Numerical Analysis, 2010, 48, 1186-1207.	2.3	23
18	A flexible numerical approach for quantification of epistemic uncertainty. Journal of Computational Physics, 2013, 240, 211-224.	3.8	23

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19	A Staggered Discontinuous Galerkin Method of Minimal Dimension on Quadrilateral and Polygonal Meshes. SIAM Journal of Scientific Computing, 2018, 40, A2543-A2567.	2.8	19
20	A staggered DG method of minimal dimension for the Stokes equations on general meshes. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 854-875.	6.6	19
21	Electrical conductivity imaging using a variational method in B z -based MREIT. Inverse Problems, 2005, 21, 969-980.	2.0	18
22	TWO-SCALE PRODUCT APPROXIMATION FOR SEMILINEAR PARABOLIC PROBLEMS IN MIXED METHODS. Journal of the Korean Mathematical Society, 2014, 51, 267-288.	0.4	16
23	Mixed finite-element methods for Hamilton-Jacobi-Bellman-type equations. IMA Journal of Numerical Analysis, 1996, 16, 399-412.	2.9	14
24	Nonconforming cell boundary element methods for elliptic problems on triangular mesh. Applied Numerical Mathematics, 2008, 58, 800-814.	2.1	14
25	New locally conservative finite element methods on a rectangular mesh. Numerische Mathematik, 2013, 123, 97-119.	1.9	14
26	Superconvergent discontinuous Galerkin methods for nonlinear elliptic equations. Mathematics of Computation, 2013, 82, 1297-1335.	2.1	14
27	Multigrid Optimization Methods for the Optimal Control of Convectionâ€“Diffusion Problems with Bilinear Control. Journal of Optimization Theory and Applications, 2016, 168, 510-533.	1.5	14
28	Convergence of natural adaptive least squares finite element methods. Numerische Mathematik, 2017, 136, 1097-1115.	1.9	14
29	A<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow>< Galerkin method for the stationary quasi-geostrophic equations of the ocean. Computer Methods in Applied Mechanics and Engineering, 2016, 300, 225-244.	6.6	13
30	Guaranteed A Posteriori Error Estimates for a Staggered Discontinuous Galerkin Method. Journal of Scientific Computing, 2018, 75, 1079-1101.	2.3	13
31	A lowest-order staggered DG method for the coupled Stokesâ€“Darcy problem. IMA Journal of Numerical Analysis, 2020, 40, 2871-2897.	2.9	13
32	A hybridized finite element method for the Stokes problem. Computers and Mathematics With Applications, 2014, 68, 2222-2232.	2.7	12
33	A hybrid discontinuous Galerkin method for advectionâ€“diffusionâ€“reaction problems. Applied Numerical Mathematics, 2015, 95, 292-303.	2.1	12
34	Mixed finite element domain decomposition for nonlinear parabolic problems. Computers and Mathematics With Applications, 2000, 40, 1061-1070.	2.7	11
35	Staggered DG Method for Coupling of the Stokes and Darcy--Forchheimer Problems. SIAM Journal on Numerical Analysis, 2021, 59, 1-31.	2.3	11
36	Hybrid Spectral Difference Methods for an Elliptic Equation. Computational Methods in Applied Mathematics, 2017, 17, 253-267.	0.8	10

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37	A New Hybrid Staggered Discontinuous Galerkin Method on General Meshes. Journal of Scientific Computing, 2020, 82, 1.	2.3	10
38	Numerical Experiments for the Arnold--Winther Mixed Finite Elements for the Stokes Problem. SIAM Journal of Scientific Computing, 2012, 34, A2267-A2287.	2.8	8
39	Analysis of multiscale mortar mixed approximation of nonlinear elliptic equations. Computers and Mathematics With Applications, 2018, 75, 401-418.	2.7	8
40	Fully computable bounds for a staggered discontinuous Galerkin method for the Stokes equations. Computers and Mathematics With Applications, 2018, 75, 4115-4134.	2.7	8
41	A Staggered Cell-Centered DG Method for Linear Elasticity on Polygonal Meshes. SIAM Journal of Scientific Computing, 2020, 42, A2158-A2181.	2.8	8
42	A primal hybrid finite element method for a strongly nonlinear second-order elliptic problem. Numerical Methods for Partial Differential Equations, 1995, 11, 61-75.	3.6	7
43	Characteristic finite element methods for diffusion epidemic models with age-structured populations. Applied Mathematics and Computation, 1998, 97, 55-70.	2.2	7
44	Asymptotically exact a posteriori error estimators for first-order div least-squares methods in local and global L2 norm. Computers and Mathematics With Applications, 2015, 70, 648-659.	2.7	7
45	C0-discontinuous Galerkin methods for a wind-driven ocean circulation model: Two-grid algorithm. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 321-339.	6.6	7
46	Mixed methods of nonlinear second-order elliptic problems in three variables. Numerical Methods for Partial Differential Equations, 1996, 12, 41-57.	3.6	6
47	A cell boundary element method for elliptic problems. Numerical Methods for Partial Differential Equations, 2005, 21, 496-511.	3.6	6
48	Primal mixed finite-element approximation of elliptic equations with gradient nonlinearities. Computers and Mathematics With Applications, 2006, 51, 793-804.	2.7	6
49	High-order discontinuous Galerkin methods with Lagrange multiplier for hyperbolic systems of conservation laws. Computers and Mathematics With Applications, 2017, 73, 1945-1974.	2.7	6
50	Error estimates of B-spline based finite-element methods for the stationary quasi-geostrophic equations of the ocean. Computer Methods in Applied Mechanics and Engineering, 2018, 335, 255-272.	6.6	6
51	Staggered DG Methods for the Pseudostress-Velocity Formulation of the Stokes Equations on General Meshes. SIAM Journal of Scientific Computing, 2020, 42, A2537-A2560.	2.8	6
52	A posteriori error estimators for the first-order least-squares finite element method. Journal of Computational and Applied Mathematics, 2010, 235, 293-300.	2.0	5
53	Space-Time Adaptive Methods for the Mixed Formulation of a Linear Parabolic Problem. Journal of Scientific Computing, 2018, 74, 1725-1756.	2.3	4
54	Morley finite element methods for the stationary quasi-geostrophic equation. Computer Methods in Applied Mechanics and Engineering, 2021, 375, 113639.	6.6	4

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55	TheP-version of the mixed-finite element method for nonlinear second-order elliptic problems. Numerical Methods for Partial Differential Equations, 1996, 12, 1-11.	3.6	3
56	Dynamic frictionless contact of a nonlinear beam with two stops. Applicable Analysis, 2015, 94, 1355-1379.	1.3	3
57	Optimal error estimates for the pseudostress formulation of the Navierâ€"Stokes equations. Applied Mathematics Letters, 2018, 78, 24-30.	2.7	3
58	A unified framework for two-grid methods for a class of nonlinear problems. Calcolo, 2018, 55, 1.	1.1	3
59	C0 interior penalty methods for a dynamic nonlinear beam model. Applied Mathematics and Computation, 2018, 339, 685-700.	2.2	3
60	Staggered discontinuous Galerkin methods for the Helmholtz equation with large wave number. Computers and Mathematics With Applications, 2020, 80, 2676-2690.	2.7	3
61	Multiscale mortar mixed domain decomposition approximations of nonlinear parabolic equations. Computers and Mathematics With Applications, 2021, 97, 375-385.	2.7	3
62	Cell boundary element methods for convection-diffusion equations. Communications on Pure and Applied Analysis, 2006, 5, 309-319.	0.8	3
63	AN UPSTREAM PSEUDOSTRESS-VELOCITY MIXED FORMULATION FOR THE OSEEN EQUATIONS. Bulletin of the Korean Mathematical Society, 2014, 51, 267-285.	0.3	3
64	Staggered DG Method with Small Edges for Darcy Flows in Fractured Porous Media. Journal of Scientific Computing, 2022, 90, 1.	2.3	3
65	A Nitsche-type variational formulation for the shape deformation of a single component vesicle. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112661.	6.6	2
66	Cell boundary element methods for elliptic problems. Hokkaido Mathematical Journal, 2007, 36, .	0.3	1
67	Convergence of Multi-level Algorithms for a Class of Nonlinear Problems. Journal of Scientific Computing, 2020, 84, 1.	2.3	1
68	Novel Adaptive Hybrid Discontinuous Galerkin Algorithms for Elliptic Problems. Computational Methods in Applied Mathematics, 2021, 21, 929-951.	0.8	1
69	Adaptive Crank-Nicolson methods with dynamic finite-element spaces for parabolic problems. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 873-886.	0.9	1
70	A novel hybrid difference method for an elliptic equation. Applied Mathematics and Computation, 2022, 415, 126702.	2.2	1
71	Analysis of hybrid discontinuous Galerkin methods for linearized Navierâ€"Stokes equations. Numerical Methods for Partial Differential Equations, 0, , .	3.6	1
72	Domain decomposition preconditioning for elliptic problems with jumps in coefficients. Computers and Mathematics With Applications, 2014, 68, 2292-2313.	2.7	0

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73	Multiscale mortar expanded mixed discretization of nonlinear elliptic problems. Applied Mathematics and Computation, 2020, 371, 124932.	2.2	0
74	A NONCONFORMING PRIMAL MIXED FINITE ELEMENT METHOD FOR THE STOKES EQUATIONS. Bulletin of the Korean Mathematical Society, 2014, 51, 1655-1668.	0.3	0
75	A staggered cell-centered DG method for the biharmonic Steklov problem on polygonal meshes: A priori and a posteriori analysis. Computers and Mathematics With Applications, 2022, 117, 216-228.	2.7	0
76	A Staggered Discontinuous Galerkin Method for Quasi-Linear Second Order Elliptic Problems of Nonmonotone Type. Computational Methods in Applied Mathematics, 2022, .	0.8	0
77	Error analysis for the pseudostress formulation of unsteady Stokes problem. Numerical Algorithms, 0, , .	1.9	0