Sang Dong Kim

List of Publications by Year
in descending order

30 papers	291 citations	1040056 9 h-index	940533 16 g-index
30 all docs	30 docs citations	30 times ranked	124 citing authors

#	Article	IF	Citations
1	Choice of an initial guess for Newton's method to solve nonlinear differential equations. Computers and Mathematics With Applications, 2022, 117, 69-73.	2.7	1
2	A least squares finite element method using Elsasser variables for magnetohydrodynamic equations. Journal of Computational and Applied Mathematics, 2019, 346, 599-608.	2.0	0
3	Newtonâ€™s algorithm for magnetohydrodynamic equations with the initial guess from Stokes-like problem. Journal of Computational and Applied Mathematics, 2017, 309, 1-10.	2.0	28
4	Numerical Solution for Elliptic Interface Problems Using Spectral Element Collocation Method. Abstract and Applied Analysis, 2014, 2014, 1-11.	0.7	8
5	A fast singly diagonally implicit rungeâ€“kutta method for solving 1D unsteady convectionâ€diffusion equations. Numerical Methods for Partial Differential Equations, 2014, 30, 788-812.	3.6	3
6	PRECONDITIONED SPECTRAL COLLOCATION METHOD ON CURVED ELEMENT DOMAINS USING THE GORDON-HALL TRANSFORMATION. Bulletin of the Korean Mathematical Society, 2014, 51, 595-612.	0.3	8
7	Simple ECEM Algorithms Using Function Values Only. Kyungpook Mathematical Journal, 2013, 53, 573-591.	0.3	7
8	Finite Difference Preconditioners for Legendre Based Spectral Element Methods on Elliptic Boundary Value Problems. Applied Mathematics, 2013, 04, 838-847.	0.4	0
9	Finite Element Preconditioning on Spectral Element Discretizations for Coupled Elliptic Equations. Journal of Applied Mathematics, 2012, 2012, 1-16.	0.9	2
10	Convergence on error correction methods for solving initial value problems. Journal of Computational and Applied Mathematics, 2012, 236, 4448-4461.	2.0	18
11	An Error Corrected Euler Method for Solving Stiff Problems Based on Chebyshev Collocation. SIAM Journal on Numerical Analysis, 2011, 49, 2211-2230.	2.3	26
12	Uzawa algorithms for coupled Stokes equations from the optimal control problem. Calcolo, 2009, 46, 37-47.	1.1	8
13	Adjoint pseudospectral least-squares methods for an elliptic boundary value problem. Applied Numerical Mathematics, 2009, 59, 334-348.	2.1	5
14	Preconditioning on high-order element methods using Chebyshevâ€“Gaussâ€“Lobatto nodes. Applied Numerical Mathematics, 2009, 59, 316-333.	2.1	12
15	First-Order System Least-Squares Methods for an Optimal Control Problem by the Stokes Flow. SIAM Journal on Numerical Analysis, 2009, 47, 1524-1545.	2.3	5
16	Generalized Clenshawâ€“Curtis quadrature rule with application to a collocation least-squares method. Applied Mathematics and Computation, 2007, 190, 781-789.	2.2	1
17	Newton's method for the Navier-Stokes equations with finite-element initial guess of stokes equations. Computers and Mathematics With Applications, 2006, 51, 805-816.	2.7	9
18	First-order system least squares for the Oseen equations. Numerical Linear Algebra With Applications, 2006, 13, 523-542.	1.6	9

#	Article	IF	Citations
19	Analysis and computation of least-squares methods for a compressible Stokes problem. Numerical Methods for Partial Differential Equations, 2006, 22, 867-883.	3.6	2
20	Least-squares spectral collocation method for the Stokes equations. Numerical Methods for Partial Differential Equations, 2004, 20, 128-139.	3.6	12
21	Error estimate and regularity for the compressible Navier-Stokes equations by Newton's method. Numerical Methods for Partial Differential Equations, 2003, 19, 511-524.	3.6	2
22	Pseudospectral Least-Squares Method for the Second-Order Elliptic Boundary Value Problem. SIAM Journal on Numerical Analysis, 2003, 41, 1370-1387.	2.3	15
23	Hâ^1 least-squares method for the velocityâ€“pressureâ€“stress formulation of Stokes equations. Applied Numerical Mathematics, 2002, 40, 451-465.	2.1	13
24	An analysis for the compressible Stokes equations by first-order system of least-squares finite element method. Numerical Methods for Partial Differential Equations, 2001, 17, 689-699.	3.6	4
25	First-Order System Least Squares (FOSLS) for Spatial Linear Elasticity: Pure Traction. SIAM Journal on Numerical Analysis, 2000, 38, 1454-1482.	2.3	9
26	Preconditioning Chebyshev Spectral Collocation by Finite-Difference Operators. SIAM Journal on Numerical Analysis, 1997, 34, 939-958.	2.3	35
27	Exponential decay of C^1- cubic splines vanishing at two symmetric points in each knot interval. Numerische Mathematik, 1997, 76, 479-488.	1.9	6
28	Finite difference preconditioning cubic spline collocation method of elliptic equations. Numerische Mathematik, 1997, 77, 83-103.	1.9	9
29	Preconditioning Chebyshev Spectral Collocation Method for Elliptic Partial Differential Equations. SIAM Journal on Numerical Analysis, 1996, 33, 2375-2400.	2.3	32
30	Preconditioning collocation method using quadratic splines with applications to 2nd-order separable elliptic equations. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1996, 37, 549-570.	0.2	2