Dongwoo Sheen

List of Publications by Year
in descending order

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71	1,357	394421	361022
papers	citations	19 h-index	35 g-index

71	71	71	619
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonconforming Galerkin methods based on quadrilateral elements for second order elliptic problems. ESAIM: Mathematical Modelling and Numerical Analysis, 1999, 33, 747-770.	1.9	151
2	P1-Nonconforming Quadrilateral Finite Element Methods for Second-Order Elliptic Problems. SIAM Journal on Numerical Analysis, 2003, 41, 624-640.	2.3	119
3	The Inverse Conductivity Problem with One Measurement: Stability and Estimation of Size. SIAM Journal on Mathematical Analysis, 1997, 28, 1389-1405.	1.9	91
4	A parallel method for time-discretization of parabolic problems based on contour integral representation and quadrature. Mathematics of Computation, 1999, 69, 177-196.	2.1	73
5	FREQUENCY DOMAIN TREATMENT OF ONE-DIMENSIONAL SCALAR WAVES. Mathematical Models and Methods in Applied Sciences, 1993, 03, 171-194.	3.3	70
6	Checkerboard-free topology optimization using non-conforming finite elements. International Journal for Numerical Methods in Engineering, 2003, 57, 1717-1735.	2.8	70
7	A locking-free immersed finite element method for planar elasticity interface problems. Journal of Computational Physics, 2013, 247, 228-247.	3.8	58
8	APPROXIMATION OF SCALAR WAVES IN THE SPACE-FREQUENCY DOMAIN. Mathematical Models and Methods in Applied Sciences, 1994, 04, 509-531.	3.3	54
9	Error estimates for approximations of distributed order time fractional diffusion with nonsmooth data. Fractional Calculus and Applied Analysis, 2016, 19, 69-93.	2.2	47
10	A Locking-Free Nonconforming Finite Element Method for Planar Linear Elasticity. Advances in Computational Mathematics, 2003, 19, 277-291.	1.6	43
11	A NONCONFORMING MIXED FINITE ELEMENT METHOD FOR MAXWELL'S EQUATIONS. Mathematical Models and Methods in Applied Sciences, 2000, 10, 593-613.	3.3	40
12	A Nonconforming Immersed Finite Element Method for Elliptic Interface Problems. Journal of Scientific Computing, 2019, 79, 442-463.	2.3	29
13	Locally stabilized<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si78.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>P</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:math> quadrilateral and hexahedral finite element methods for the Stokes equations. Journal of Computational and Applied Mathematics, 2011, 236, 714-727.	2.0	27
14	Topology optimization using non-conforming finite elements: three-dimensional case. International Journal for Numerical Methods in Engineering, 2005, 63, 859-875.	2.8	26
15	Analysis and control of the thermal runaway of ceramic slab under microwave heating. Science in China Series D: Earth Sciences, 2008, 51, 2233-2241.	0.9	25
16	A mixed boundary value problem for TFT/LCD: Analysis and numerical methods. Computers and Mathematics With Applications, 2000, 39, 107-123.	2.7	24
17	Nonconforming finite element methods for the simulation of waves in viscoelastic solids. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 5647-5670.	6.6	22
18	A Parallel Method for Backward Parabolic Problems Based on the Laplace Transformation. SIAM Journal on Numerical Analysis, 2006, 44, 1466-1486.	2.3	21

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19	A generalized Green's theorem. Applied Mathematics Letters, 1992, 5, 95-98.	2.7	20
20	A fractional-order model for MINMOD Millennium. Mathematical Biosciences, 2015, 262, 36-45.	1.9	20
21	Approximation of Electromagnetic Fields: Part I. Continuous Problems. SIAM Journal on Applied Mathematics, 1997, 57, 1716-1736.	1.8	17
22	Nonconforming Galerkin methods for the Helmholtz equation. Numerical Methods for Partial Differential Equations, 2001, 17, 475-494.	3.6	16
23	Finite Element Methods for the Simulation of Waves in Composite Saturated Poroviscoelastic Media. SIAM Journal on Numerical Analysis, 2007, 45, 389-420.	2.3	16
24	An accurate numerical inversionof Laplace transforms based on the location of their poles. Computers and Mathematics With Applications, 2004, 48, 1415-1423.	2.7	15
25	ON THE EXISTENCE AND UNIQUENESS OF SOLUTIONS TO MAXWELL'S EQUATIONS IN BOUNDED DOMAINS WITH APPLICATION TO MAGNETOTELLURICS. Mathematical Models and Methods in Applied Sciences, 2000, 10, 615-628.	3.3	14
26	Absorbing boundary conditions for wave propagation in viscoelastic media. Journal of Computational and Applied Mathematics, 1996, 76, 301-314.	2.0	12
27	Numerical inversion of discontinuous conductivities. Inverse Problems, 2000, 16, 33-47.	2.0	12
28	Analysis of a cell boundary element method. Advances in Computational Mathematics, 2005, 22, 201-222.	1.6	12
29	A new quadratic nonconforming finite element on rectangles. Numerical Methods for Partial Differential Equations, 2006, 22, 954-970.	3.6	12
30	An elliptic regularity coefficient estimate for a problem arising from a frequency domain treatment of waves. Transactions of the American Mathematical Society, 1994, 346, 475-487.	0.9	12
31	A frequency-domain parallel method for the numerical approximation of parabolic problems. Computer Methods in Applied Mechanics and Engineering, 1999, 169, 19-29.	6.6	11
32	Laplace Transform Method for Parabolic Problems with Time-Dependent Coefficients. SIAM Journal on Numerical Analysis, 2013, 51, 112-125.	2.3	11
33	FREQUENCY DOMAIN WAVE PROPAGATION MODELING IN EXPLORATION SEISMOLOGY. Journal of Computational Acoustics, 2001, 09, 941-955.	1.0	10
34	A quadrilateral Morley element for biharmonic equations. Numerische Mathematik, 2013, 124, 395-413.	1.9	10
35	A piecewiseP₂-nonconforming quadrilateral finite element. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 689-715.	1.9	10
36	Stable cheapest nonconforming finite elements for the Stokes equations. Journal of Computational and Applied Mathematics, 2016, 299, 2-14.	2.0	10

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37	A parallel method for the numerical solution of integro-differential equation with positive memory. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 4641-4658.	6.6	9
38	Analysis of light trapping effects in Si solar cells with a textured surface by ray tracing simulation. Current Applied Physics, 2011, 11, S23-S25.	2.4	9
39	F John's stability conditions versus A Carasso's SECB constraint for backward parabolic problems. Inverse Problems, 2009, 25, 055001.	2.0	8
40	A class of nonparametric DSSY nonconforming quadrilateral elements. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 1783-1796.	1.9	8
41	A modified von Bertalanffy growth model dependent on temperature and body size. Mathematical Biosciences, 2017, 294, 57-61.	1.9	8
42	Second-order absorbing boundary conditions for the wave equation in a rectangular domain. Mathematics of Computation, 1993, 61, 595-606.	2.1	7
43	Derivation of a Darcyâ€™s Law for a Porous Medium Composed of Two Solid Phases Saturated by a Single-Phase Fluid: A Homogenization Approach. Transport in Porous Media, 2008, 74, 349-368.	2.6	7
44	A cheapest nonconforming rectangular finite element for the stationary Stokes problem. Computer Methods in Applied Mechanics and Engineering, 2013, 257, 77-86.	6.6	7
45	Frequency domain formulation of linearized Navierâ€“Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2000, 187, 351-362.	6.6	6
46	A cell boundary element method for elliptic problems. Numerical Methods for Partial Differential Equations, 2005, 21, 496-511.	3.6	6
47	A hybrid numerical method to compute erythrocyte TMP in low-frequency electric fields. IEEE Transactions on Nanobioscience, 2003, 2, 104-109.	3.3	5
48	A locking-free locally conservative hybridized scheme for elasticity problems. Japan Journal of Industrial and Applied Mathematics, 2013, 30, 585-603.	0.9	5
49	A subspace of the DSSY nonconforming quadrilateral finite element space for the Stokes equations. Journal of Computational and Applied Mathematics, 2013, 239, 220-230.	2.0	5
50	Three-dimensional quadratic nonconforming brick element. Numerical Methods for Partial Differential Equations, 2014, 30, 158-174.	3.6	5
51	Nonconforming Finite Element Method Applied to the Driven Cavity Problem. Communications in Computational Physics, 2017, 21, 1012-1038.	1.7	4
52	Finite element methods for an acoustic well-logging problem associated with a porous medium saturated by a two-phase immiscible fluid. Numerical Methods for Partial Differential Equations, 1993, 9, 155-174.	3.6	3
53	An Efficient Ray Tracing Algorithm for the Simulation of Light Trapping Effects in Si Solar Cells with Textured Surfaces. Journal of Nanoscience and Nanotechnology, 2012, 12, 3224-3227.	0.9	3
54	Effect of oxide thin films in back contact on the optical absorption efficiency of thin crystalline Si solar cells. Current Applied Physics, 2013, 13, S140-S143.	2.4	3

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55	A nonconforming quadrilateral element with maximal inf-sup constant. Numerical Methods for Partial Differential Equations, 2014, 30, 120-132.	3.6	3
56	On Hanging Node Constraints for Nonconforming Finite Elements using the Douglas--Santos--Sheen--Ye Element as an Example. SIAM Journal on Numerical Analysis, 2017, 55, 1719-1739.	2.3	3
57	Nonconforming generalized multiscale finite element methods. Journal of Computational and Applied Mathematics, 2017, 311, 215-229.	2.0	3
58	A new cubic nonconforming finite element on rectangles. Numerical Methods for Partial Differential Equations, 2015, 31, 691-705.	3.6	2
59	Convergence analysis of a family of 14-node brick elements. Journal of Computational and Applied Mathematics, 2016, 301, 53-63.	2.0	2
60	Upwind Hybrid Spectral Difference Methods for Steady-State Navierâ€“Stokes Equations. , 2018, , 621-644.		2
61	A fourth-order energy for the three-dimensional wave equation with second-order absorbing boundary conditions. Applied Mathematics Letters, 2001, 14, 531-537.	2.7	1
62	High-efficiency grid-type Si solar cell structure. Journal of the Korean Physical Society, 2012, 60, 2075-2078.	0.7	1
63	Option Pricing of Weather Derivatives for Seoul. East Asian Journal on Applied Mathematics, 2012, 2, 309-325.	0.9	1
64	A FREQUENCY-DOMAIN METE10D FOR FINITE ELEMENT SOLUTIONS OF PARABOLIC PROBLEMS. Bulletin of the Korean Mathematical Society, 2002, 39, 589-606.	0.3	1
65	Parallelized Local Volatility Estimation Using GP-GPU Hardware Acceleration. , 2010, , .		0
66	Preface to the special issue for the proceedings of the Fourth Chinaâ€“Japanâ€“Korea Conference on Numerical Mathematics. Japan Journal of Industrial and Applied Mathematics, 2013, 30, 483-483.	0.9	0
67	An Efficient Finite-Difference Time-Domain Algorithm to Simulate the Absorbed Energy of Nonflat Layers or Particles of Thin-Film Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 1212-1216.	2.5	0
68	Estimation of parameter functions in ordinary differential equations with a stage structure: a linear case. Inverse Problems in Science and Engineering, 2015, 23, 235-255.	1.2	0
69	Laplace transform method for parabolic problems with time-dependent and nonlinear coefficients: Magnus integrator and linearization. AIP Conference Proceedings, 2016, , .	0.4	0
70	Special feature: the seventh Chinaâ€“Japanâ€“Korea joint conference on numerical mathematics (CJK2018). Japan Journal of Industrial and Applied Mathematics, 2019, 36, 987-988.	0.9	0
71	Parallel Methods for Solving Time-Dependent Problems Using the Fourier-Laplace Transformation. , 2000, , 283-291.		0