

Weimin Han

List of Publications by Year in descending order

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133
papers

2,636
citations

236925

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138
all docs

138
docs citations

138
times ranked

769
citing authors

#	ARTICLE	IF	CITATIONS
1	Morozov's discrepancy principle for $\alpha_1 \ \cdot\ _2$ sparsity regularization. Inverse Problems and Imaging, 2023, 17, 157-179.	1.1	0
2	Minimax principles for elliptic mixed hemivariational inequalities. Nonlinear Analysis: Real World Applications, 2022, 64, 103448.	1.7	6
3	Virtual element method for a frictional contact problem with normal compliance. Communications in Nonlinear Science and Numerical Simulation, 2022, 107, 106125.	3.3	6
4	Minimization arguments in analysis of variational hemivariational inequalities. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	1.4	3
5	A Nonconforming Virtual Element Method for a Fourth-order Hemivariational Inequality in Kirchhoff Plate Problem. Journal of Scientific Computing, 2022, 90, .	2.3	2
6	Well-posedness of a general class of elliptic mixed hemivariational inequalities. Nonlinear Analysis: Real World Applications, 2022, 66, 103553.	1.7	4
7	A Pressure Projection Stabilized Mixed Finite Element Method for a Stokes Hemivariational Inequality. Journal of Scientific Computing, 2022, 92, .	2.3	3
8	A new class of hyperbolic variational hemivariational inequalities driven by non-linear evolution equations. European Journal of Applied Mathematics, 2021, 32, 59-88.	2.9	15
9	Unconditional stability and optimal error estimates of discontinuous Galerkin methods for the second-order wave equation. Applicable Analysis, 2021, 100, 1143-1157.	1.3	2
10	A Revisit of Elliptic Variational-Hemivariational Inequalities. Numerical Functional Analysis and Optimization, 2021, 42, 371-395.	1.4	10
11	On a family of discontinuous Galerkin fully-discrete schemes for the wave equation. Computational and Applied Mathematics, 2021, 40, 1.	2.2	1
12	Numerical analysis of a parabolic hemivariational inequality for semipermeable media. Journal of Computational and Applied Mathematics, 2021, 389, 113326.	2.0	5
13	The virtual element method for general elliptic hemivariational inequalities. Journal of Computational and Applied Mathematics, 2021, 389, 113330.	2.0	17
14	Mixed Finite Element Method for a Hemivariational Inequality of Stationary Navier-Stokes Equations. Journal of Scientific Computing, 2021, 89, 1.	2.3	12
15	Minimization principle in study of a Stokes hemivariational inequality. Applied Mathematics Letters, 2021, 121, 107401.	2.7	6
16	The virtual element method for an obstacle problem of a Kirchhoff-Love plate. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 106008.	3.3	5
17	Numerical analysis of the diffusive-viscous wave equation. Computers and Mathematics With Applications, 2021, 102, 54-64.	2.7	6
18	Seismic wave equations in tight oil/gas sandstone media. Science China Earth Sciences, 2021, 64, 377-387.	5.2	4

#	ARTICLE	IF	CITATIONS
19	Well-posedness analysis of a stationary Navier–Stokes hemivariational inequality. <i>Fixed Point Theory and Algorithms for Sciences and Engineering</i> , 2021, 2021, .	0.6	2
20	Numerical analysis of doubly-history dependent variational inequalities in contact mechanics. <i>Fixed Point Theory and Algorithms for Sciences and Engineering</i> , 2021, 2021, .	0.6	2
21	Finite element method for a stationary Stokes hemivariational inequality with slip boundary condition. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 2696-2716.	2.9	15
22	Adaptive discontinuous Galerkin methods for solving an incompressible Stokes flow problem with slip boundary condition of frictional type. <i>Journal of Computational and Applied Mathematics</i> , 2020, 371, 112700.	2.0	16
23	The Nonconforming Virtual Element Method for a Stationary Stokes Hemivariational Inequality with Slip Boundary Condition. <i>Journal of Scientific Computing</i> , 2020, 85, 1.	2.3	19
24	Numerical approximation of an electro-elastic frictional contact problem modeled by hemivariational inequality. <i>Computational and Applied Mathematics</i> , 2020, 39, 1.	2.2	1
25	Numerical analysis of history-dependent variational-hemivariational inequalities. <i>Science China Mathematics</i> , 2020, 63, 2207-2232.	1.7	2
26	A mixed discontinuous Galerkin method for an unsteady incompressible Darcy equation. <i>Applicable Analysis</i> , 2020, , 1-23.	1.3	2
27	Convergence analysis of numerical solutions for optimal control of variational hemivariational inequalities. <i>Applied Mathematics Letters</i> , 2020, 105, 106327.	2.7	3
28	Singular Perturbations of Variational-Hemivariational Inequalities. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 1549-1566.	1.9	17
29	Minimization principles for elliptic hemivariational inequalities. <i>Nonlinear Analysis: Real World Applications</i> , 2020, 54, 103114.	1.7	19
30	Numerical analysis of a contact problem with wear. <i>Computers and Mathematics With Applications</i> , 2020, 79, 2942-2951.	2.7	5
31	Analysis of an a posteriori error estimator for a variational inequality governed by the Stokes equations. <i>Journal of Computational and Applied Mathematics</i> , 2020, 372, 112721.	2.0	5
32	Smoothing quadratic regularization method for hemivariational inequalities. <i>Optimization</i> , 2020, 69, 2217-2240.	1.7	0
33	Numerical studies of a hemivariational inequality for a viscoelastic contact problem with damage. <i>Journal of Computational and Applied Mathematics</i> , 2020, 377, 112886.	2.0	4
34	Optimal Order Error Estimates for Discontinuous Galerkin Methods for the Wave Equation. <i>Journal of Scientific Computing</i> , 2019, 78, 121-144.	2.3	12
35	Numerical analysis of the energy-dependent radiative transfer equation. <i>IMA Journal of Numerical Analysis</i> , 2019, 39, 1529-1562.	2.9	2
36	On numerical approximation of a variational hemivariational inequality modeling contact problems for locking materials. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2894-2905.	2.7	7

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37	Virtual Element Method for an Elliptic Hemivariational Inequality with Applications to Contact Mechanics. <i>Journal of Scientific Computing</i> , 2019, 81, 2388-2412.	2.3	23
38	Numerical analysis of history-dependent hemivariational inequalities and applications to viscoelastic contact problems with normal penetration. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2596-2607.	2.7	12
39	Numerical analysis of hemivariational inequalities in contact mechanics. <i>Acta Numerica</i> , 2019, 28, 175-286.	10.7	77
40	Stability analysis of stationary variational and hemivariational inequalities with applications. <i>Nonlinear Analysis: Real World Applications</i> , 2019, 50, 171-191.	1.7	5
41	A discontinuous Galerkin method for seismic wave propagation in coupled elastic and poroelastic media. <i>Geophysical Prospecting</i> , 2019, 67, 1392-1403.	1.9	17
42	Virtual Element Methods for Elliptic Variational Inequalities of the Second Kind. <i>Journal of Scientific Computing</i> , 2019, 80, 60-80.	2.3	20
43	Numerical analysis of an evolutionary variational hemivariational inequality with application to a dynamic contact problem. <i>Journal of Computational and Applied Mathematics</i> , 2019, 358, 163-178.	2.0	6
44	Convergence analysis of penalty based numerical methods for constrained inequality problems. <i>Numerische Mathematik</i> , 2019, 142, 917-940.	1.9	6
45	On convergence of numerical methods for variational hemivariational inequalities under minimal solution regularity. <i>Applied Mathematics Letters</i> , 2019, 93, 105-110.	2.7	14
46	On penalty method for unilateral contact problem with non-monotone contact condition. <i>Journal of Computational and Applied Mathematics</i> , 2019, 356, 293-301.	2.0	11
47	Numerical analysis of history-dependent variational hemivariational inequalities with applications in contact mechanics. <i>Journal of Computational and Applied Mathematics</i> , 2019, 351, 364-377.	2.0	13
48	Discontinuous Galerkin methods for solving a hyperbolic inequality. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 894-915.	3.6	1
49	Numerical Analysis of Elliptic Hemivariational Inequalities for Semipermeable Media. <i>Journal of Computational Mathematics</i> , 2019, 37, 543-560.	0.4	9
50	Numerical analysis of stationary variational-hemivariational inequalities. <i>Numerische Mathematik</i> , 2018, 139, 563-592.	1.9	48
51	Discontinuous Galerkin Methods for a Stationary Navier-Stokes Problem with a Nonlinear Slip Boundary Condition of Friction Type. <i>Journal of Scientific Computing</i> , 2018, 76, 888-912.	2.3	28
52	A penalty method for history-dependent variational hemivariational inequalities. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2561-2573.	2.7	23
53	Numerical analysis of stationary variational-hemivariational inequalities with applications in contact mechanics. <i>Mathematics and Mechanics of Solids</i> , 2018, 23, 279-293.	2.4	44
54	Discontinuous Galerkin Methods for Solving a Frictional Contact Problem with Normal Compliance. <i>Numerical Functional Analysis and Optimization</i> , 2018, 39, 1248-1264.	1.4	4

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55	A coupled complex boundary method for an inverse conductivity problem with one measurement. <i>Applicable Analysis</i> , 2017, 96, 869-885.	1.3	6
56	Radiative transfer with delta-Eddington-type phase functions. <i>Applied Mathematics and Computation</i> , 2017, 300, 70-78.	2.2	3
57	Analysis of a general dynamic history-dependent variational hemivariational inequality. <i>Nonlinear Analysis: Real World Applications</i> , 2017, 36, 69-88.	1.7	36
58	Numerical analysis of an evolutionary variational hemivariational inequality with application in contact mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 318, 882-897.	6.6	6
59	Energy dependent radiative transfer equation and energy discretization. <i>Journal of Computational and Applied Mathematics</i> , 2017, 323, 147-158.	2.0	3
60	Numerical Analysis of Elliptic Hemivariational Inequalities. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 640-663.	2.3	66
61	Mixed Total Variation and L^1 Regularization Method for Optical Tomography Based on Radiative Transfer Equation. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-15.	1.3	14
62	A New Coupled Complex Boundary Method for Bioluminescence Tomography. <i>Communications in Computational Physics</i> , 2016, 19, 226-250.	1.7	3
63	A Discrete-Ordinate Discontinuous-Streamline Diffusion Method for the Radiative Transfer Equation. <i>Communications in Computational Physics</i> , 2016, 20, 1443-1465.	1.7	5
64	A class of hemivariational inequalities for nonstationary Navier-Stokes equations. <i>Nonlinear Analysis: Real World Applications</i> , 2016, 31, 257-276.	1.7	14
65	Numerical solution of a contact problem with unilateral constraint and history-dependent penetration. <i>Journal of Engineering Mathematics</i> , 2016, 97, 177-194.	1.2	0
66	Numerical analysis of history-dependent variational hemivariational inequalities with applications to contact problems. <i>European Journal of Applied Mathematics</i> , 2015, 26, 427-452.	2.9	45
67	Image Reconstruction for Diffuse Optical Tomography Based on Radiative Transfer Equation. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-23.	1.3	16
68	Numerical Analysis of a Hyperbolic Hemivariational Inequality Arising in Dynamic Contact. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 527-550.	2.3	50
69	A posteriori error analysis in radiative transfer. <i>Applicable Analysis</i> , 2015, 94, 2517-2534.	1.3	1
70	A posteriori error estimates for discontinuous Galerkin methods of obstacle problems. <i>Nonlinear Analysis: Real World Applications</i> , 2015, 22, 664-679.	1.7	24
71	A Class of Variational-Hemivariational Inequalities with Applications to Frictional Contact Problems. <i>SIAM Journal on Mathematical Analysis</i> , 2014, 46, 3891-3912.	1.9	119
72	A general framework for integration of bioluminescence tomography and diffuse optical tomography. <i>Inverse Problems in Science and Engineering</i> , 2014, 22, 458-482.	1.2	2

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73	Numerical analysis of history-dependent quasivariational inequalities with applications in contact mechanics. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2014, 48, 919-942.	1.9	13
74	A fast solver for an inverse problem arising in bioluminescence tomography. <i>Journal of Computational and Applied Mathematics</i> , 2014, 267, 228-243.	2.0	5
75	Discontinuous Galerkin methods for solving a quasistatic contact problem. <i>Numerische Mathematik</i> , 2014, 126, 771-800.	1.9	28
76	Another view for a posteriori error estimates for variational inequalities of the second kind. <i>Applied Numerical Mathematics</i> , 2013, 72, 225-233.	2.1	10
77	Analysis of a viscoelastic contact problem with multivalued normal compliance and unilateral constraint. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 264, 12-22.	6.6	9
78	Well-posedness of the Fokker-Planck equation in a scattering process. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 406, 531-536.	1.0	8
79	A theoretical study for RTE-based parameter identification problems. <i>Inverse Problems</i> , 2013, 29, 095002.	2.0	20
80	Theory of Differential Approximations of Radiative Transfer Equation. , 2013, , 121-148.		3
81	Convergence of the forward-backward sweep method in optimal control. <i>Computational Optimization and Applications</i> , 2012, 53, 207-226.	1.6	110
82	On a family of differential approximations of the radiative transfer equation. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 689-702.	1.5	11
83	Some integral identities for spherical harmonics in an arbitrary dimension. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1126-1135.	1.5	1
84	Numerical Approximation of a Unilateral Obstacle Problem. <i>Journal of Optimization Theory and Applications</i> , 2012, 153, 177-194.	1.5	5
85	A Theoretical Framework of X-Ray Dark-Field Tomography. <i>SIAM Journal on Applied Mathematics</i> , 2011, 71, 1557-1577.	1.8	13
86	On some discretization methods for solving a linear matrix ordinary differential equation. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 1026-1041.	1.5	2
87	On simplified spherical harmonics equations for the radiative transfer equation. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 1785-1797.	1.5	9
88	Discontinuous Galerkin methods for solving the Signorini problem. <i>IMA Journal of Numerical Analysis</i> , 2011, 31, 1754-1772.	2.9	45
89	RTE-based bioluminescence tomography: A theoretical study. <i>Inverse Problems in Science and Engineering</i> , 2011, 19, 435-459.	1.2	16
90	A novel approach for studies of multispectral bioluminescence tomography. <i>Numerische Mathematik</i> , 2010, 115, 553-583.	1.9	7

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91	Discontinuous Galerkin Methods for Solving Elliptic Variational Inequalities. SIAM Journal on Numerical Analysis, 2010, 48, 708-733.	2.3	70
92	Discrete-Ordinate Discontinuous Galerkin Methods for Solving the Radiative Transfer Equation. SIAM Journal of Scientific Computing, 2010, 32, 477-497.	2.8	43
93	A General Total Variation Minimization Theorem for Compressed Sensing Based Interior Tomography. International Journal of Biomedical Imaging, 2009, 2009, 1-3.	3.9	33
94	Studies of a mathematical model for temperature-modulated bioluminescence tomography. Applicable Analysis, 2009, 88, 193-213.	1.3	2
95	An integrated solution and analysis of bioluminescence tomography and diffuse optical tomography. Communications in Numerical Methods in Engineering, 2009, 25, 639-656.	1.3	5
96	Numerical approximation of bioluminescence tomography based on a new formulation. Journal of Engineering Mathematics, 2009, 63, 121-133.	1.2	4
97	Adaptive Finite Element Solution of Variational Inequalities with Application in Contact Problems. Advances in Mechanics and Mathematics, 2009, , 25-106.	0.7	2
98	Discrete gradient method in solid mechanics. International Journal for Numerical Methods in Engineering, 2008, 74, 619-641.	2.8	7
99	A new general mathematical framework for bioluminescence tomography. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 524-535.	6.6	11
100	Bioluminescence Tomography: Biomedical Background, Mathematical Theory, and Numerical Approximation. Journal of Computational Mathematics, 2008, 26, 324-335.	0.4	6
101	Theoretical and numerical analysis on multispectral bioluminescence tomography. IMA Journal of Applied Mathematics, 2007, 72, 67-85.	1.6	21
102	Bioluminescence tomography with optimized optical parameters. Inverse Problems, 2007, 23, 1215-1228.	2.0	21
103	Nonconforming Finite Element Methods for a Clamped Plate with Elastic Unilateral Obstacle. Journal of Integral Equations and Applications, 2006, 18, 267.	0.6	5
104	Mathematical theory and numerical analysis of bioluminescence tomography. Inverse Problems, 2006, 22, 1659-1675.	2.0	61
105	A posteriori error analysis for finite element solutions of a frictional contact problem. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1252-1274.	6.6	34
106	Mathematical Study and Numerical Simulation of Multispectral Bioluminescence Tomography. International Journal of Biomedical Imaging, 2006, 2006, 1-10.	3.9	15
107	A dynamic viscoelastic contact problem with normal compliance and damage. Finite Elements in Analysis and Design, 2005, 42, 1-24.	3.2	30
108	A posteriori error estimation and adaptive solution of elliptic variational inequalities of the second kind. Applied Numerical Mathematics, 2005, 52, 13-38.	2.1	32

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109	Recovery-based error estimation and adaptive solution of elliptic variational inequalities of the second kind. <i>Communications in Mathematical Sciences</i> , 2004, 2, 1-18.	1.0	12
110	A reproducing kernel method with nodal interpolation property. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 56, 935-960.	2.8	84
111	Inexact Uzawa algorithms for variational inequalities of the second kind. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 1451-1462.	6.6	8
112	Variational and numerical analysis of a dynamic frictionless contact problem with adhesion. <i>Journal of Computational and Applied Mathematics</i> , 2003, 156, 127-157.	2.0	16
113	Nonconforming Finite Element Analysis for a Plate Contact Problem. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 1683-1697.	2.3	16
114	A frictionless contact problem for viscoelastic materials. <i>Journal of Applied Mathematics</i> , 2002, 2, 1-21.	0.9	14
115	Convergence analysis of a hierarchical enrichment of Dirichlet boundary conditions in a mesh-free method. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 53, 1323-1336.	2.8	21
116	A frictionless contact problem for elastic-viscoplastic materials with normal compliance and damage. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 5007-5026.	6.6	42
117	Variational and numerical analysis of a quasistatic viscoelastic problem with normal compliance, friction and damage. <i>Journal of Computational and Applied Mathematics</i> , 2001, 137, 377-398.	2.0	82
118	NUMERICAL ANALYSIS OF A CONTACT PROBLEM IN RATE-TYPE VISCOPLASTICITY. <i>Numerical Functional Analysis and Optimization</i> , 2001, 22, 505-527.	1.4	9
119	Convergence of approximations to the primal problem in plasticity under conditions of minimal regularity. <i>Numerische Mathematik</i> , 2000, 87, 283-315.	1.9	19
120	Convergence analysis of discrete approximations of problems in hardening plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999, 171, 327-340.	6.6	6
121	Error estimates of numerical solutions for a cyclic plasticity problem. <i>Computational Mechanics</i> , 1999, 23, 33-38.	4.0	0
122	Minimum error bound of signal reconstruction. <i>IEEE Signal Processing Letters</i> , 1999, 6, 309-311.	3.6	11
123	On the kaczmarz method for a quasi-newtonian flow problem. <i>Numerical Functional Analysis and Optimization</i> , 1998, 19, 961-970.	1.4	3
124	Quantitative justification of linearization in nonlinear hencky material problems. <i>Numerical Functional Analysis and Optimization</i> , 1997, 18, 325-341.	1.4	1
125	Numerical approximations of problems in plasticity: error analysis and solution algorithms. <i>Numerical Linear Algebra With Applications</i> , 1997, 4, 191-204.	1.6	11
126	An asymptotic regularization method for coefficient identification of a generalized nonhomogeneous Helmholtz equation. <i>Japan Journal of Industrial and Applied Mathematics</i> , 1996, 13, 51-61.	0.9	3

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127	On the numerical approximation of a frictional contact problem with normal compliance. Numerical Functional Analysis and Optimization, 1996, 17, 307-321.	1.4	14
128	On the Finite Element Method for Mixed Variational Inequalities Arising in Elastoplasticity. SIAM Journal on Numerical Analysis, 1995, 32, 1778-1807.	2.3	60
129	A-posteriori error analysis for material idealizations in modeling one-dimensional elastostatic problems. Numerical Functional Analysis and Optimization, 1994, 15, 621-634.	1.4	0
130	A posteriori error analysis for linearization of nonlinear elliptic problems and their discretizations. Mathematical Methods in the Applied Sciences, 1994, 17, 487-508.	2.3	24
131	Quantitative error estimates for coefficient idealization in linear elliptic problems. Mathematical Methods in the Applied Sciences, 1994, 17, 971-987.	2.3	5
132	Finite element analysis of a holonomic elastic-plastic problem. Numerische Mathematik, 1991, 60, 493-508.	1.9	19
133	Recent Development in Bioluminescence Tomography. , 0, , .		4