Yanren Hou

List of Publications by Year
in descending order

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109 papers	1,442 citations	304743 22 h-index	477307 29 g-index
110 all docs	110 docs citations	110 times ranked	320 citing authors

#	Article	IF	Citations
1	A finite element variational multiscale method for incompressible flows based on two local gauss integrations. Journal of Computational Physics, 2009, 228, 5961-5977.	3.8	76
2	Optimal error estimates of a decoupled scheme based on two-grid finite element for mixed Stokesâ€“Darcy model. Applied Mathematics Letters, 2016, 57, 90-96.	2.7	56
3	Error Estimates of Splitting Galerkin Methods for Heat and Sweat Transport in Textile Materials. SIAM Journal on Numerical Analysis, 2013, 51, 88-111.	2.3	39
4	An AIM and one-step Newton method for the Navierâ€“Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 6141-6155.	6.6	37
5	A decoupling twoâ€grid algorithm for the mixed Stokesâ€Darcy model with the Beaversâ€Joseph interface condition. Numerical Methods for Partial Differential Equations, 2014, 30, 1066-1082.	3.6	36
6	Adaptive variational multiscale methods for incompressible flow based on two local Gauss integrations. Journal of Computational Physics, 2010, 229, 7030-7041.	3.8	33
7	Attractors for the three-dimensional incompressible Navier-Stokes equations with damping. Discrete and Continuous Dynamical Systems, 2011, 31, 239-252.	0.9	33
8	A two-grid decoupling method for the mixed Stokesâ€“Darcy model. Journal of Computational and Applied Mathematics, 2015, 275, 139-147.	2.0	32
9	A quadratic equalâ€order stabilized method for Stokes problem based on two local Gauss integrations. Numerical Methods for Partial Differential Equations, 2010, 26, 1180-1190.	3.6	31
10	Error analysis of a fully discrete finite element variational multiscale method for the natural convection problem. Computers and Mathematics With Applications, 2014, 68, 543-567.	2.7	30
11	Numerical analysis of the Crankâ€“Nicolson extrapolation time discrete scheme for magnetohydrodynamics flows. Numerical Methods for Partial Differential Equations, 2015, 31, 2169-2208.	3.6	29
12	A TWO-LEVEL DEFECTâ€“CORRECTION METHOD FOR NAVIERâ€“STOKES EQUATIONS. Bulletin of the Australian Mathematical Society, 2010, 81, 442-454.	0.5	28
13	A Posteriori Error Estimates of Stabilization of Low-Order Mixed Finite Elements for Incompressible Flow. SIAM Journal of Scientific Computing, 2010, 32, 1346-1360.	2.8	27
14	Numerical analysis for the mixed <scp>N</scp>avierâ€“<scp>S</scp>tokes and <scp>D</scp>arcy Problem with the <scp>B</scp>eaversâ€“<scp>J</scp>oseph interface condition. Numerical Methods for Partial Differential Equations, 2015, 31, 1009-1030.	3.6	27
15	A modified local and parallel finite element method for the mixed Stokesâ€“Darcy model. Journal of Mathematical Analysis and Applications, 2016, 435, 1129-1145.	1.0	27
16	Local and parallel finite element algorithms for time-dependent convection-diffusion equations. Applied Mathematics and Mechanics (English Edition), 2009, 30, 787-794.	3.6	26
17	A posteriori error estimation and adaptive computation of conduction convection problems. Applied Mathematical Modelling, 2011, 35, 2336-2347.	4.2	26
18	A two-level finite element method for the Navierâ€“Stokes equations based on a new projection. Applied Mathematical Modelling, 2010, 34, 383-399.	4.2	25

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19	Uniform attractors for three-dimensional Navierâ€“Stokes equations with nonlinear damping. Journal of Mathematical Analysis and Applications, 2015, 422, 337-351.	1.0	25
20	Stability and Convergence Analysis of a Decoupled Algorithm for a Fluid-Fluid Interaction Problem. SIAM Journal on Numerical Analysis, 2016, 54, 2833-2867.	2.3	25
21	New local and parallel finite element algorithm based on the partition of unity. Journal of Mathematical Analysis and Applications, 2016, 435, 1-19.	1.0	25
22	The global attractor of g-Navierâ€“Stokes equations with linear dampness on. Applied Mathematics and Computation, 2009, 215, 1068-1076.	2.2	23
23	A secondâ€order partitioned method with different subdomain time steps for the evolutionary Stokesâ€Darcy system. Mathematical Methods in the Applied Sciences, 2018, 41, 2178-2208.	2.3	23
24	On the solution of coupled Stokes/Darcy model with Beaversâ€“Joseph interface condition. Computers and Mathematics With Applications, 2019, 77, 50-65.	2.7	21
25	A postprocessing mixed finite element method for the Navierâ€“Stokes equations. International Journal of Computational Fluid Dynamics, 2009, 23, 461-475.	1.2	20
26	The partition of unity parallel finite element algorithm. Advances in Computational Mathematics, 2015, 41, 937-951.	1.6	20
27	The uniform attractor for the 2D non-autonomous Navierâ€“Stokes flow in some unbounded domain. Nonlinear Analysis: Theory, Methods & Applications, 2004, 58, 609-630.	1.1	19
28	Postprocessing Fourier Galerkin Method for the Navierâ€“Stokes Equations. SIAM Journal on Numerical Analysis, 2009, 47, 1909-1922.	2.3	19
29	A finite element variational multiscale method for steadyâ€state natural convection problem based on two local gauss integrations. Numerical Methods for Partial Differential Equations, 2014, 30, 361-375.	3.6	19
30	A linearly second-order energy stable scheme for the phase field crystal model. Applied Numerical Mathematics, 2019, 140, 134-164.	2.1	19
31	A Small Eddy Correction Method for Nonlinear Dissipative Evolutionary Equations. SIAM Journal on Numerical Analysis, 2003, 41, 1101-1130.	2.3	18
32	Pullback attractor of 2D non-autonomous g-Navier-Stokes equations on some bounded domains. Applied Mathematics and Mechanics (English Edition), 2010, 31, 697-708.	3.6	17
33	Adaptive Local Postprocessing Finite Element Method for the Navier-Stokes Equations. Journal of Scientific Computing, 2013, 55, 255-267.	2.3	17
34	An expandable local and parallel two-grid finite element scheme. Computers and Mathematics With Applications, 2016, 71, 2541-2556.	2.7	17
35	Optimal error estimates of a decoupled scheme based on two-grid finite element for mixed Navier-Stokes/Darcy Model. Acta Mathematica Scientia, 2018, 38, 1361-1369.	1.0	17
36	The Extended Fractional Subequation Method for Nonlinear Fractional Differential Equations. Mathematical Problems in Engineering, 2012, 2012, 1-11.	1.1	16

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37	Local and parallel finite element methods for the mixed Navierâ€“Stokes/Darcy model. International Journal of Computer Mathematics, 2016, 93, 1155-1172.	1.8	16
38	Local and parallel finite element algorithm for stationary incompressible magnetohydrodynamics. Numerical Methods for Partial Differential Equations, 2017, 33, 1513-1539.	3.6	16
39	Dimension splitting algorithm for a three-dimensional elliptic equation. International Journal of Computer Mathematics, 2012, 89, 112-127.	1.8	15
40	Recovery-based error estimator for stabilized finite element methods for the Stokes equation. Computer Methods in Applied Mechanics and Engineering, 2014, 272, 1-16.	6.6	15
41	Subgrid stabilized defect-correction method for a steady-state natural convection problem. Computers and Mathematics With Applications, 2014, 67, 497-514.	2.7	15
42	Numerical analysis of two gradâ€“div stabilization methods for the time-dependent Stokes/Darcy model. Computers and Mathematics With Applications, 2020, 79, 817-832.	2.7	14
43	Theoretical Study of the Reverse Roll Coating of Non-Isothermal Magnetohydrodynamics Viscoplastic Fluid. Coatings, 2020, 10, 940.	2.6	14
44	Mathematical Analysis of Pseudoplastic Polymers during Reverse Roll-Coating. Polymers, 2020, 12, 2285.	4.5	14
45	A two-level method in time and space for solving the Navierâ€“Stokes equations based on Newton iteration. Computers and Mathematics With Applications, 2012, 64, 3569-3579.	2.7	13
46	Adaptive partitioned methods for the time-accurate approximation of the evolutionary Stokesâ€“Darcy system. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112923.	6.6	13
47	A fully discrete stabilized finite element method for the time-dependent Navierâ€“Stokes equations. Applied Mathematics and Computation, 2009, 215, 85-99.	2.2	12
48	Numerical analysis of a second order algorithm for simplified magnetohydrodynamic flows. Advances in Computational Mathematics, 2017, 43, 823-848.	1.6	12
49	The time filter for the non-stationary coupled Stokes/Darcy model. Applied Numerical Mathematics, 2019, 146, 260-275.	2.1	12
50	A variational multiscale method based on bubble functions for convection-dominated convectionâ€“diffusion equation. Applied Mathematics and Computation, 2010, 217, 2226-2237.	2.2	11
51	A Second Order Energy Stable BDF Numerical Scheme for the Swiftâ€“Hohenberg Equation. Journal of Scientific Computing, 2021, 88, 1.	2.3	11
52	Pullback attractor of 2D nonautonomous g-Navier-Stokes equations with linear dampness. Applied Mathematics and Mechanics (English Edition), 2011, 32, 151-166.	3.6	10
53	Defect correction method for time-dependent viscoelastic fluid flow. International Journal of Computer Mathematics, 2011, 88, 1546-1563.	1.8	10
54	Adaptive variational multiscale method for the Stokes equations. International Journal for Numerical Methods in Fluids, 2013, 71, 1369-1381.	1.6	9

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55	Twoâ€level consistent splitting methods based on three corrections for the timeâ€dependent Navierâ€"Stokes equations. International Journal for Numerical Methods in Fluids, 2016, 80, 429-450.	1.6	9
56	Two-level methods for the Cahnâ€"Hilliard equation. Mathematics and Computers in Simulation, 2016, 126, 89-103.	4.4	9
57	A second-order artificial compression method for the evolutionary Stokes-Darcy system. Numerical Algorithms, 2020, 84, 1019-1048.	1.9	9
58	Well-Posedness and Finite Element Approximation for the Convection Model in Superposed Fluid and Porous Layers. SIAM Journal on Numerical Analysis, 2020, 58, 541-564.	2.3	9
59	A linearly second-order, unconditionally energy stable scheme and its error estimates for the modified phase field crystal equation. Computers and Mathematics With Applications, 2021, 103, 104-126.	2.7	9
60	Tangent space correction method for the Galerkin approximation based on two-grid finite element. Applied Mathematics and Computation, 2006, 175, 413-429.	2.2	8
61	Variational multiscale method based on the Crankâ€"Nicolson extrapolation scheme for the non-stationary Navierâ€"Stokes equations. International Journal of Computer Mathematics, 2012, 89, 2198-2223.	1.8	8
62	Optimal error estimates of both coupled and two-grid decoupled methods for a mixed Stokesâ€"Stokes model. Applied Numerical Mathematics, 2018, 133, 116-129.	2.1	8
63	A parallel partition of unity method for the time-dependent convection-diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1947-1956.	2.8	7
64	A stabilized finite volume method for the evolutionary Stokesâ€"Darcy system. Computers and Mathematics With Applications, 2018, 75, 596-613.	2.7	7
65	Error estimates of a decoupled algorithm for a fluidâ€"fluid interaction problem. Journal of Computational and Applied Mathematics, 2018, 333, 266-291.	2.0	7
66	Robust error analysis of H(div)-conforming DG method for the time-dependent incompressible Navierâ€"Stokes equations. Journal of Computational and Applied Mathematics, 2021, 390, 113365.	2.0	7
67	A variable time-stepping algorithm for the unsteady Stokes/Darcy model. Journal of Computational and Applied Mathematics, 2021, 394, 113521.	2.0	7
68	Stability and convergence of optimum spectral non-linear Galerkin methods. Mathematical Methods in the Applied Sciences, 2001, 24, 289-317.	2.3	6
69	Adaptive mixed least squares Galerkin/Petrov finite element method for stationary conduction convection problems. Applied Mathematics and Mechanics (English Edition), 2011, 32, 1269-1286.	3.6	6
70	The twoâ€grid stabilization of equalâ€order finite elements for the stokes equations. International Journal for Numerical Methods in Fluids, 2011, 67, 2054-2061.	1.6	6
71	Immersed Interface Method for elliptic equations based on a piecewise second order polynomial. Computers and Mathematics With Applications, 2012, 63, 957-965.	2.7	6
72	A partitioned secondâ€order method for magnetohydrodynamic flows at small magnetic reynolds numbers. Numerical Methods for Partial Differential Equations, 2017, 33, 1966-1986.	3.6	6

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73	A two-level correction method in space and time based on Crankâ€“Nicolson scheme for Navierâ€“Stokes equations. International Journal of Computer Mathematics, 2010, 87, 2520-2532.	1.8	5
74	A posteriori error estimation for a defect correction method applied to conduction convection problems. Numerical Methods for Partial Differential Equations, 2013, 29, 496-509.	3.6	5
75	Numerical analysis of a second order algorithm for a non-stationary Navierâ€“Stokes/Darcy model. Journal of Computational and Applied Mathematics, 2020, 369, 112579.	2.0	5
76	Semirobust analysis of an H(div)-conforming DG method with semi-implicit time-marching for the evolutionary incompressible Navierâ€“Stokes equations. IMA Journal of Numerical Analysis, 2022, 42, 1568-1597.	2.9	5
77	Influence of magnetohydrodynamics and heat transfer on the reverse roll coating of a Jeffrey fluid: A theoretical study. Journal of Plastic Film and Sheeting, 2022, 38, 72-104.	2.2	5
78	Pullback $mathcal{D}$-attractors for the non-autonomous Newton-Boussinesq equation in two-dimensional bounded domain. Discrete and Continuous Dynamical Systems, 2012, 32, 991-1009.	0.9	5
79	Error estimate of a stabilized second-order linear predictorâ€“corrector scheme for the Swiftâ€“Hohenberg equation. Applied Mathematics Letters, 2022, 127, 107836.	2.7	5
80	An unconditionally energy-stable linear Crank-Nicolson scheme for the Swift-Hohenberg equation. Applied Numerical Mathematics, 2022, 181, 46-58.	2.1	5
81	Pullback attractors for the non-autonomous quasi-linear complex Ginzburg-Landau equation with p-Laplacian. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 1801-1814.	0.9	4
82	A two-level consistent splitting scheme for the navier-stokes equations. Computers and Fluids, 2016, 140, 167-174.	2.5	4
83	On the weak solutions to steady Navier-Stokes equations with mixed boundary conditions. Mathematische Zeitschrift, 2019, 291, 47-54.	0.9	4
84	Error estimates of a second-order decoupled scheme for the evolutionary Stokes-Darcy system. Applied Numerical Mathematics, 2020, 154, 129-148.	2.1	4
85	Error estimates for the Scalar Auxiliary Variable (SAV) schemes to the modified phase field crystal equation. Journal of Computational and Applied Mathematics, 2023, 417, 114579.	2.0	4
86	A Defect-Correction Method for Time-Dependent Viscoelastic Fluid Flow Based on SUPG Formulation. Discrete Dynamics in Nature and Society, 2011, 2011, 1-25.	0.9	3
87	The Pullback Asymptotic Behavior of the Solutions for 2D Nonautonomous<i>G</i>-Navier-Stokes Equations. Advances in Applied Mathematics and Mechanics, 2012, 4, 223-237.	1.2	3
88	A twoâ€level method in space and time for the Navierâ€Stokes equations. Numerical Methods for Partial Differential Equations, 2013, 29, 1504-1521.	3.6	3
89	Analysis of the parareal method with spectral deferred correction method for the Stokes/Darcy equations. Applied Mathematics and Computation, 2020, 387, 124625.	2.2	3
90	New approach to prove the stability of a decoupled algorithm for a fluidâ€“fluid interaction problem. Journal of Computational and Applied Mathematics, 2020, 371, 112695.	2.0	3

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91	Efficient unconditionally stable numerical schemes for a modified phase field crystal model with a strong nonlinear vacancy potential. Numerical Methods for Partial Differential Equations, 2022, 38, 65-101.	3.6	3
92	A Theoretical Study of Reverse Roll Coating for a Non-Isothermal Third-Grade Fluid under Lubrication Approximation Theory. Mathematical Problems in Engineering, 2022, 2022, 1-18.	1.1	3
93	A stabilized semi-implicit Galerkin scheme for Navierâ€“Stokes equations. Journal of Computational and Applied Mathematics, 2009, 231, 552-560.	2.0	2
94	Galerkin and subspace decomposition methods in space and time for the Navierâ€“Stokes equations. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 3218-3231.	1.1	2
95	Modified intrinsic extended finite element method for elliptic equation with interfaces. Journal of Engineering Mathematics, 2016, 97, 147-159.	1.2	2
96	A second-order decoupled algorithm with different subdomain time steps for the non-stationary Stokes/Darcy model. Numerical Algorithms, 2021, 88, 1137-1182.	1.9	2
97	An equal-order hybridized discontinuous Galerkin method with a small pressure penalty parameter for the Stokes equations. Computers and Mathematics With Applications, 2021, 93, 58-65.	2.7	2
98	A New Iterative Method for Linear Systems from XFEM. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	1
99	Adaptive dimension splitting algorithm for three-dimensional elliptic equations. International Journal of Computer Mathematics, 2014, 91, 2535-2553.	1.8	1
100	The stable extrinsic extended finite element method for second order elliptic equation with interfaces. Advances in Difference Equations, 2015, 2015, .	3.5	1
101	A parallel partition of unity method for the unsteady Stokes equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2105-2114.	2.8	1
102	An embedded discontinuous Galerkin method for the Oseen equations. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 2349-2364.	1.9	1
103	Analysis of the local and parallel space-time algorithm for the heat equation. Computers and Mathematics With Applications, 2021, 100, 167-181.	2.7	1
104	Determining an obstacle by far-field data measured at a few spots. Inverse Problems and Imaging, 2015, 9, 591-600.	1.1	1
105	IMD based nonlinear Galerkin method. Applied Mathematics and Mechanics (English Edition), 2003, 24, 326-337.	3.6	0
106	The Crank-Nicolson Extrapolation Stabilized Finite Element Method for Natural Convection Problem. Mathematical Problems in Engineering, 2014, 2014, 1-22.	1.1	0
107	A Stabilized Galerkin Scheme for the Convection-Diffusion-Reaction Equations. Acta Applicandae Mathematicae, 2014, 130, 115-134.	1.0	0
108	The application of dimension split method in the threeâ€dimensional heat equation. Mathematical Methods in the Applied Sciences, 2016, 39, 3506-3515.	2.3	0

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109	Numerical analysis of two-grid decoupling finite element scheme for Navier-Stokes/Darcy model. Computers and Mathematics With Applications, 2022, 113, 45-51.	2.7	0