

# Yirang Yuan

## List of Publications by Year in descending order

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47  
papers

317  
citations

933447

10  
h-index

940533

16  
g-index

47  
all docs

47  
docs citations

47  
times ranked

102  
citing authors

#	ARTICLE	IF	CITATIONS
1	An approximation of incompressible miscible displacement in porous media by mixed finite element method and characteristics-mixed finite element method. <i>Journal of Computational and Applied Mathematics</i> , 2009, 228, 391-411.	2.0	40
2	Timestepping Along Characteristics for a Mixed Finite-Element Approximation for Compressible Flow of Contamination from Nuclear Waste in Porous Media. <i>SIAM Journal on Numerical Analysis</i> , 1989, 26, 1513-1524.	2.3	34
3	The upwind finite difference fractional steps methods for two-phase compressible flow in porous media. <i>Numerical Methods for Partial Differential Equations</i> , 2003, 19, 67-88.	3.6	26
4	The characteristic finite difference fractional steps methods for compressible two-phase displacement problem. <i>Science in China Series A: Mathematics</i> , 1999, 42, 48-57.	0.5	25
5	The characteristic finite volume element method for the nonlinear convection-dominated diffusion problem. <i>Computers and Mathematics With Applications</i> , 2008, 56, 71-81.	2.7	20
6	An upwind finite volume element scheme and its maximum principle preserving property for nonlinear convection-diffusion problem. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 2301-2320.	1.6	14
7	The characteristic finite element alternating direction method with moving meshes for nonlinear convection-dominated diffusion problems. <i>Numerical Methods for Partial Differential Equations</i> , 2006, 22, 661-679.	3.6	13
8	Nonoverlapping domain decomposition characteristic finite differences for three-dimensional convection-diffusion equations. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 17-37.	3.6	13
9	A modified upwind difference domain decomposition method for convection-diffusion equations. <i>Applied Numerical Mathematics</i> , 2009, 59, 1584-1598.	2.1	12
10	Analysis on block-centered finite differences of numerical simulation of semiconductor device detector. <i>Applied Mathematics and Computation</i> , 2016, 279, 1-15.	2.2	12
11	Numerical simulation and application of three-dimensional oil resources migration-accumulation of fluid dynamics in porous media. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 1144-1163.	0.2	9
12	Numerical method of mixed finite volume-modified upwind fractional step difference for three-dimensional semiconductor device transient behavior problems. <i>Acta Mathematica Scientia</i> , 2017, 37, 259-279.	1.0	9
13	Mixed finite element method and the characteristics-mixed finite element method for a slightly compressible miscible displacement problem in porous media. <i>Mathematics and Computers in Simulation</i> , 2015, 107, 24-45.	4.4	8
14	Numerical simulation of migration-accumulation of oil resources. <i>Computational Geosciences</i> , 2008, 12, 153-162.	2.4	7
15	Characteristic finite difference fractional step methods for three-dimensional semiconductor device of heat conduction. <i>Science Bulletin</i> , 2000, 45, 125-131.	1.7	6
16	The finite difference method for the three-dimensional nonlinear coupled system of dynamics of fluids in porous media. <i>Science in China Series A: Mathematics</i> , 2006, 49, 185-211.	0.5	6
17	Mixed Finite Element-Second Order Upwind Fractional Step Difference Scheme of Darcy-Forchheimer Miscible Displacement and Its Numerical Analysis. <i>Journal of Scientific Computing</i> , 2021, 86, 1.	2.3	6
18	Explicit/implicit domain decomposition method with modified upwind differences for convection-diffusion equations. <i>Computers and Mathematics With Applications</i> , 2008, 55, 2565-2573.	2.7	5

#	ARTICLE	IF	CITATIONS
19	The numerical simulation and analysis of three-dimensional seawater intrusion and protection projects in porous media. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 92-107.	0.2	5
20	Mixed Volume Element-Characteristic Fractional Step Difference Method for Contamination from Nuclear Waste Disposal. <i>Journal of Scientific Computing</i> , 2017, 72, 467-499.	2.3	5
21	Mixed volume element combined with characteristic mixed finite volume element method for oil-water two phase displacement problem. <i>Journal of Computational and Applied Mathematics</i> , 2018, 340, 404-419.	2.0	5
22	Block-centered upwind multistep difference method and convergence analysis for numerical simulation of oil reservoir. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 3289-3304.	2.3	5
23	Modification of upwind finite difference fractional step methods by the transient state of the semiconductor device. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 400-417.	3.6	4
24	Theory and application of fractional step characteristic finite difference method in numerical simulation of second order enhanced oil production. <i>Acta Mathematica Scientia</i> , 2015, 35, 1547-1565.	1.0	4
25	Characteristic finite element scheme and analysis the three-dimensional two-phase displacement semi-definite problem. <i>Science Bulletin</i> , 1997, 42, 17-22.	1.7	3
26	Domain decomposition with characteristic finite difference method for two-phase displacement problems. <i>Applied Numerical Mathematics</i> , 2008, 58, 1262-1273.	2.1	3
27	An Approximation of Three-Dimensional Semiconductor Devices by Mixed Finite Element Method and Characteristics-Mixed Finite Element Method. <i>Numerical Mathematics</i> , 2015, 8, 356-382.	1.3	3
28	Domain Decomposition Modified with Characteristic Finite Element Method for Numerical Simulation of Semiconductor Transient Problem of Heat Conduction. <i>Journal of Mathematics Research</i> , 2015, 7, .	0.1	2
29	Convergence analysis of mixed volume element-characteristic mixed volume element for three-dimensional chemical oil-recovery seepage coupled problem. <i>Acta Mathematica Scientia</i> , 2018, 38, 519-545.	1.0	2
30	A Time-Discretization Procedure for a Mixed Finite Element Approximation of Contamination by Incompressible Nuclear Waste in Porous Media. , 2020, , 127-145.		2
31	The second-order upwind finite difference fractional steps method for moving boundary value problem of nonlinear percolation coupled system. <i>Scientia Sinica Mathematica</i> , 2012, 42, 845-864.	0.2	2
32	The upwind finite difference method for moving boundary value problem of coupled system. <i>Acta Mathematica Scientia</i> , 2011, 31, 857-881.	1.0	1
33	The method of mixed volume element-characteristic mixed volume element and its numerical analysis for three-dimensional slightly compressible two-phase displacement. <i>Numerical Methods for Partial Differential Equations</i> , 2018, 34, 661-685.	3.6	1
34	An upwind center difference parallel method and numerical analysis for the displacement problem with moving boundary. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 1654-1675.	3.6	1
35	An upwind approximation combined with mixed volume element for a positive semi-definite contamination treatment from nuclear waste. <i>Engineering With Computers</i> , 2020, 36, 1599-1614.	6.1	1
36	Mixed finite volume element-upwind mixed volume element of compressible two-phase displacement and its numerical analysis. <i>Journal of Computational and Applied Mathematics</i> , 2020, 370, 112637.	2.0	1

#	ARTICLE	IF	CITATIONS
37	A Block-Centered Upwind Approximation of the Semiconductor Device Problem on a Dynamically Changing Mesh. <i>Acta Mathematica Scientia</i> , 2020, 40, 1405-1428.	1.0	1
38	Characteristic mixed volume element for compressible two-phase displacement in porous media. <i>International Journal of Computer Mathematics</i> , 0, , 1-18.	1.8	1
39	The modified characteristic finite difference fractional steps method for the coupled system of fluid dynamics in porous media and its analysis. <i>Numerical Methods for Partial Differential Equations</i> , 2003, 19, 665-681.	3.6	0
40	The Upwind Finite Difference Fractional Steps Method for Nonlinear Coupled System of Dynamics of Fluids in Porous Media. <i>Journal of Systems Science and Complexity</i> , 2006, 19, 498-516.	2.8	0
41	The upwind finite difference fractional steps method for nonlinear coupled systems. <i>Numerical Methods for Partial Differential Equations</i> , 2007, 23, 1037-1058.	3.6	0
42	The expanded upwind-mixed method on changing meshes for positive semi-definite problem of two-phase miscible flow. <i>International Journal of Computer Mathematics</i> , 2008, 85, 1113-1125.	1.8	0
43	The modified method of characteristics with mixed finite element domain decomposition procedures for the transient behavior of a semiconductor device. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 353-368.	3.6	0
44	Theory and application of numerical simulation method of capillary force enhanced oil production. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 379-400.	3.6	0
45	A Numerical Approximation Structured by Mixed Finite Element and Upwind Fractional Step Difference for Semiconductor Device with Heat Conduction and Its Numerical Analysis. <i>Numerical Mathematics</i> , 2017, 10, 541-561.	1.3	0
46	Mixed volume element with characteristic mixed volume element method for compressible contamination treatment from nuclear waste. <i>International Journal of Computer Mathematics</i> , 2021, 98, 136-160.	1.8	0
47	Careful Numerical Simulation and Analysis of Migration-Accumulation. <i>Series in Contemporary Applied Mathematics</i> , 2006, , 242-253.	0.8	0