

Yirang Yuan

List of Publications by Year in descending order

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47
papers

317
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102
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Mixed Finite Element-Second Order Upwind Fractional Step Difference Scheme of Darcy's Forchheimer Miscible Displacement and Its Numerical Analysis. <i>Journal of Scientific Computing</i> , 2021, 86, 1. | 2.3 | 6 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | A Time-Discretization Procedure for a Mixed Finite Element Approximation of Contamination by Incompressible Nuclear Waste in Porous Media. , 2020, , 127-145. | | 2 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 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 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | A modified upwind difference domain decomposition method for convection-diffusion equations. <i>Applied Numerical Mathematics</i> , 2009, 59, 1584-1598. | 2.1 | 12 |
| 27 | 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 |
| 28 | 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 |
| 29 | Numerical simulation of migration-accumulation of oil resources. <i>Computational Geosciences</i> , 2008, 12, 153-162. | 2.4 | 7 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Domain decomposition with characteristic finite difference method for two-phase displacement problems. <i>Applied Numerical Mathematics</i> , 2008, 58, 1262-1273. | 2.1 | 3 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | Careful Numerical Simulation and Analysis of Migration-Accumulation. <i>Series in Contemporary Applied Mathematics</i> , 2006, , 242-253. | 0.8 | 0 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |