List of Publications by Year in descending order

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567281 580821 82 851 15 25 citations h-index g-index papers 82 82 82 355 docs citations times ranked citing authors all docs

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | An Approximation to Miscible Fluid Flows in Porous Media with Point Sources and Sinks by an<br>EulerianLagrangian Localized Adjoint Method and Mixed Finite Element Methods. SIAM Journal of<br>Scientific Computing, 2000, 22, 561-581. | 2.8 | 88        |
| 2  | Energy-conserved splitting FDTD methods for Maxwell's equations. Numerische Mathematik, 2008, 108, 445-485.  | 1.9 | 65        |
| 3  | Energy-Conserved Splitting Finite-Difference Time-Domain Methods for Maxwell's Equations in Three<br>Dimensions. SIAM Journal on Numerical Analysis, 2010, 48, 1530-1554.  | 2.3 | 48        |
| 4  | The splitting finite-difference time-domain methods for Maxwell's equations in two dimensions.<br>Journal of Computational and Applied Mathematics, 2007, 205, 207-230.  | 2.0 | 44        |
| 5  | An efficient S-DDM iterative approach for compressible contamination fluid flows in porous media.<br>Journal of Computational Physics, 2010, 229, 4501-4521.   | 3.8 | 36        |
| 6  | The mass-preserving and modified-upwind splitting DDM scheme for time-dependent<br>convection–diffusion equations. Journal of Computational and Applied Mathematics, 2017, 317, 247-273.   | 2.0 | 25        |
| 7  | A high-order upwind method for the convection-diffusion problem. Computer Methods in Applied<br>Mechanics and Engineering, 1997, 147, 105-115.   | 6.6 | 22        |
| 8  | The conservative characteristic FD methods for atmospheric aerosol transport problems. Journal of Computational Physics, 2016, 305, 494-520.   | 3.8 | 21        |
| 9  | The time fourth-order compact ADI methods for solving two-dimensional nonlinear wave equations.<br>Applied Mathematics and Computation, 2018, 329, 188-209.  | 2.2 | 20        |
| 10 | The energy-preserving finite difference methods and their analyses for system of nonlinear wave equations in two dimensions. Applied Numerical Mathematics, 2020, 151, 172-198.  | 2.1 | 19        |
| 11 | The efficient S-DDM scheme and its analysis for solving parabolic equations. Journal of Computational Physics, 2014, 272, 46-69.   | 3.8 | 18        |
| 12 | The spatial fourth-order energy-conserved S-FDTD scheme for Maxwell's equations. Journal of<br>Computational Physics, 2013, 243, 344-364.  | 3.8 | 17        |
| 13 | An optimal weighted upwinding covolume method on non-standard grids for convection–diffusion problems in 2D. International Journal for Numerical Methods in Engineering, 2006, 67, 553-577.  | 2.8 | 16        |
| 14 | High-order finite difference methods for a second order dual-phase-lagging models of microscale heat transfer. Applied Mathematics and Computation, 2017, 309, 31-48.  | 2.2 | 16        |
| 15 | Modelling Population Growth with Delayed Nonlocal Reaction in 2-Dimensions. Mathematical Biosciences and Engineering, 2005, 2, 111-132.  | 1.9 | 16        |
| 16 | The Mass-Preserving S-DDM Scheme for Two-Dimensional Parabolic Equations. Communications in Computational Physics, 2016, 19, 411-441.  | 1.7 | 15        |
| 17 | Symmetric Energy-Conserved Splitting FDTD Scheme for the Maxwell's Equations. Communications in Computational Physics, 2009, 6, 804-825.   | 1.7 | 15        |
| 18 | An efficient secondâ€order characteristic finite element method for nonâ€linear aerosol dynamic<br>equations. International Journal for Numerical Methods in Engineering, 2009, 80, 338-354.   | 2.8 | 14        |

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|----|---|-----|-----------|
| 19 | Energy-conserved splitting spectral methods for two dimensional Maxwell's equations. Journal of<br>Computational and Applied Mathematics, 2014, 265, 301-321.   | 2.0 | 13        |
| 20 | Highâ€order energyâ€preserving schemes for the improved Boussinesq equation. Numerical Methods for<br>Partial Differential Equations, 2018, 34, 1145-1165.  | 3.6 | 13        |
| 21 | Optimal weighted upwind finite volume method for convection–diffusion equations in 2D. Journal of<br>Computational and Applied Mathematics, 2019, 359, 73-87.   | 2.0 | 13        |
| 22 | An improved numerical simulator for different types of flows in porous media. Numerical Methods<br>for Partial Differential Equations, 2003, 19, 343-362.   | 3.6 | 12        |
| 23 | A new splitting wavelet method for solving the general aerosol dynamics equation. Journal of Aerosol Science, 2008, 39, 467-487.  | 3.8 | 12        |
| 24 | The Time Second Order Mass Conservative Characteristic FDM for Advection–Diffusion Equations in High Dimensions. Journal of Scientific Computing, 2017, 73, 26-49.  | 2.3 | 12        |
| 25 | The new mass-conserving S-DDM scheme for two-dimensional parabolic equations with variable coefficients. Applied Mathematics and Computation, 2018, 338, 882-902.   | 2.2 | 12        |
| 26 | The conservative splitting domain decomposition method for multicomponent contamination flows in porous media. Journal of Computational Physics, 2020, 400, 108974.   | 3.8 | 12        |
| 27 | Analysis of a conservative high-order compact finite difference scheme for the<br>Klein–Gordon–Schrödinger equation. Journal of Computational and Applied Mathematics, 2019, 358,<br>84-96.                                       | 2.0 | 11        |
| 28 | A fractional step ELLAM approach to high-dimensional convection–diffusion problems with forward particle tracking. Journal of Computational Physics, 2007, 221, 198-225.  | 3.8 | 10        |
| 29 | The finite difference scheme for nonlinear SchrĶdinger equations on unbounded domain by artificial boundary conditions. Applied Numerical Mathematics, 2018, 128, 183-204.  | 2.1 | 10        |
| 30 | A Mass-Conservative Temporal Second Order and Spatial Fourth Order Characteristic Finite Volume<br>Method for Atmospheric Pollution Advection Diffusion Problems. SIAM Journal of Scientific<br>Computing, 2019, 41, B1178-B1210. | 2.8 | 10        |
| 31 | High Order Compact Block-Centered Finite Difference Schemes for Elliptic and Parabolic Problems.<br>Journal of Scientific Computing, 2021, 87, 1.   | 2.3 | 10        |
| 32 | The Conservative Time High-Order AVF Compact Finite Difference Schemes for Two-Dimensional<br>Variable Coefficient Acoustic Wave Equations. Journal of Scientific Computing, 2019, 80, 1279-1309.                                 | 2.3 | 9         |
| 33 | Error estimates for mixed finite element approximations of the viscoelasticity wave equation.<br>Mathematical Methods in the Applied Sciences, 2004, 27, 1997-2016.   | 2.3 | 8         |
| 34 | Asymptotic patterns of a structured population diffusing in a two-dimensional strip. Nonlinear<br>Analysis: Theory, Methods & Applications, 2008, 69, 3931-3951.  | 1.1 | 8         |
| 35 | A multipoint flux mixed finite element method for the compressible Darcy–Forchheimer models.<br>Applied Mathematics and Computation, 2017, 315, 259-277.  | 2.2 | 8         |
| 36 | An efficient approach of aerosol thermodynamic equilibrium predictions by the HDMR method.<br>Atmospheric Environment, 2010, 44, 1321-1330.   | 4.1 | 7         |

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|----|--|-----|-----------|
| 37 | Symmetric Energy-Conserved S-FDTD Scheme for Two-Dimensional Maxwell's Equations in Negative<br>Index Metamaterials. Journal of Scientific Computing, 2016, 69, 696-735.                                       | 2.3 | 7         |
| 38 | A new fourth-order energy dissipative difference method for high-dimensional nonlinear fractional generalized wave equations. Communications in Nonlinear Science and Numerical Simulation, 2019, 78, 104850.  | 3.3 | 7         |
| 39 | Energy-preserving time high-order AVF compact finite difference schemes for nonlinear wave equations with variable coefficients. Journal of Computational Physics, 2020, 421, 109738.                          | 3.8 | 7         |
| 40 | Predicting the Consequences of Seawater Intrusion and Protection Projects. Applied Mathematics and Mechanics (English Edition), 2001, 22, 1291-1300.   | 3.6 | 6         |
| 41 | New Energy-Conserved Identitiesand Super-Convergence of the Symmetric Ec-S-Fdtd Scheme for<br>Maxwell's Equations in 2D. Communications in Computational Physics, 2012, 11, 1673-1696.                         | 1.7 | 6         |
| 42 | Mass-preserving time second-order explicit–implicit domain decomposition schemes for solving<br>parabolic equations with variable coefficients. Computational and Applied Mathematics, 2018, 37,<br>4423-4442. | 1.3 | 6         |
| 43 | A conservative splitting difference scheme for the fractional-in-space Boussinesq equation. Applied<br>Numerical Mathematics, 2019, 143, 61-74.  | 2.1 | 6         |
| 44 | Two novel energy dissipative difference schemes for the strongly coupled nonlinear space fractional wave equations with damping. Applied Numerical Mathematics, 2020, 157, 178-209.                            | 2.1 | 6         |
| 45 | The energy-preserving time high-order AVF compact finite difference scheme for nonlinear wave equations in two dimensions. Applied Numerical Mathematics, 2021, 170, 298-320.                                  | 2.1 | 6         |
| 46 | The numerical simulation and analysis of three-dimensional seawater intrusion and protection projects in porous media. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 92-107.          | 0.2 | 5         |
| 47 | A Time Second-Order Mass-Conserved Implicit-Explicit Domain Decomposition Scheme for Solving the Diffusion Equations. Advances in Applied Mathematics and Mechanics, 2017, 9, 795-817.                         | 1.2 | 5         |
| 48 | Wavelet Galerkin Methods for Aerosol Dynamic Equations in Atmospheric Environment.<br>Communications in Computational Physics, 2009, , 109-130.  | 1.7 | 5         |
| 49 | Multi-component atmospheric aerosols prediction by a multi-functional MC-HDMR approach.<br>Atmospheric Research, 2012, 113, 43-56.   | 4.1 | 4         |
| 50 | Numerical analysis of the second-order characteristic FEM for nonlinear aerosol dynamic equations.<br>Journal of Computational and Applied Mathematics, 2014, 261, 48-61.                                      | 2.0 | 4         |
| 51 | ADI-FDTD Method for Two-Dimensional Transient Electromagnetic Problems. Communications in Computational Physics, 2016, 19, 94-123.   | 1.7 | 4         |
| 52 | Modelling multi-component aerosol transport problems by the efficient splitting characteristic method. Atmospheric Environment, 2016, 144, 297-314.  | 4.1 | 4         |
| 53 | A new high-order energy-preserving scheme for the modified Korteweg-de Vries equation. Numerical<br>Algorithms, 2017, 74, 659-674.   | 1.9 | 4         |
| 54 | A second-order box solver for nonlinear delayed convection-diffusion equations with Neumann boundary conditions. International Journal of Computer Mathematics, 2019, 96, 1879-1898.                           | 1.8 | 4         |

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|----|---|-----|-----------|
| 55 | A Multipoint Flux Mixed Finite Element Method for Darcy–Forchheimer Incompressible Miscible<br>Displacement Problem. Journal of Scientific Computing, 2020, 82, 1.  | 2.3 | 4         |
| 56 | Energy-preserving local mesh-refined splitting FDTD schemes for two dimensional Maxwell's equations. Journal of Computational Physics, 2021, 425, 109896.   | 3.8 | 4         |
| 57 | Numerical analysis to discontinuous Galerkin methods for the age structured population model of marine invertebrates. Numerical Methods for Partial Differential Equations, 2009, 25, 470-493.  | 3.6 | 3         |
| 58 | Relaxation Factor Effects in the Non-Linear Mixed Spectral Finite Difference Model of Flow Over<br>Topographic Features. Boundary-Layer Meteorology, 2011, 140, 23-35.  | 2.3 | 3         |
| 59 | A new weighted upwind finite volume element method based on nonâ€standard covolume for<br>timeâ€dependent convection–diffusion problems. International Journal for Numerical Methods in<br>Fluids, 2013, 73, 953-975.   | 1.6 | 3         |
| 60 | Global energyâ€tracking identities and global energyâ€tracking splitting FDTD schemes for the<br><scp>D</scp> rude Models of <scp>M</scp> axwell's equations in threeâ€dimensional metamaterials.<br>Numerical Methods for Partial Differential Equations, 2017, 33, 763-785. | 3.6 | 3         |
| 61 | Analysis of a Fourier pseudo-spectral conservative scheme for the Klein–Gordon–Schrödinger<br>equation. International Journal of Computer Mathematics, 2018, 95, 36-60.   | 1.8 | 3         |
| 62 | Second order in time and space corrected explicit–implicit domain decomposition scheme for<br>convection–diffusion equations. Journal of Computational and Applied Mathematics, 2019, 357, 38-55.   | 2.0 | 3         |
| 63 | The energy conservative splitting FDTD scheme and its energy identities for metamaterial electromagnetic Lorentz system. Computer Physics Communications, 2019, 239, 94-111.  | 7.5 | 3         |
| 64 | A fourth-order block-centered compact difference scheme for nonlinear contaminant transport equations with adsorption. Applied Numerical Mathematics, 2022, 171, 212-232.   | 2.1 | 3         |
| 65 | Second-order characteristic schemes in time and age for a nonlinear age-structured population model. Journal of Computational and Applied Mathematics, 2011, 235, 3841-3858.  | 2.0 | 2         |
| 66 | Locally one-dimensional-alternating segment explicit–implicit and locally<br>one-dimensional-alternating segment Crank–Nicolson methods for two-dimension parabolic<br>equations. International Journal of Computer Mathematics, 2015, 92, 513-531.                           | 1.8 | 2         |
| 67 | High-Order Finite Volume Methods for Aerosol Dynamic Equations. Advances in Applied Mathematics and Mechanics, 2016, 8, 213-235.  | 1.2 | 2         |
| 68 | The Conservative Splitting High-Order Compact Finite Difference Scheme for Two-Dimensional SchrĶdinger Equations. International Journal of Computational Methods, 2018, 15, 1750079.  | 1.3 | 2         |
| 69 | Energy-Conserved Splitting Multidomain Legendre-Tau Spectral Method for Two Dimensional<br>Maxwell's Equations. Journal of Scientific Computing, 2022, 90, 1.   | 2.3 | 2         |
| 70 | The Weighted Upwinding Finite Volume Method for the Convection Diffusion Problem on a<br>Nonstandard Covolume Grid. Applied Numerical Analysis and Computational Mathematics, 2004, 1,<br>180-194.  | 0.6 | 1         |
| 71 | Finite element approximations to one-phase nonlinear free boundary problem in groundwater contamination flow. Numerical Methods for Partial Differential Equations, 2006, 22, 1267-1288.  | 3.6 | 1         |
| 72 | A derivative-free optimization algorithm based on conditional moments. Journal of Mathematical<br>Analysis and Applications, 2007, 331, 1337-1360.  | 1.0 | 1         |

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|----|--|-----|-----------|
| 73 | STRUCTURED INFLUENZA MODEL FOR META-POPULATION. International Journal of Biomathematics, 2009, 02, 525-541.  | 2.9 | 1         |
| 74 | Analysis of the energyâ€conserved Sâ€FDTD scheme for variable coefficient Maxwell's equations in disk<br>domains. Mathematical Methods in the Applied Sciences, 2016, 39, 1689-1704. | 2.3 | 1         |
| 75 | The long wave fluid flows on inclined porous media with nonlinear Forchheimer's law. AIP Advances, 2019, 9, 095302.  | 1.3 | 1         |
| 76 | Using the EC-S-FDTD Scheme to Approximate Eddy Currents Induced by Z-Gradient Coils. IEEE Transactions on Antennas and Propagation, 2021, 69, 4715-4726.                             | 5.1 | 1         |
| 77 | An Efficient Splitting Domain Decomposition Approach for Parabolic-Type Time-Dependent Problems in Porous Media. Lecture Notes in Computer Science, 2010, , 69-77.                   | 1.3 | 1         |
| 78 | Modified High-order Upwing Method for Convection Diffusion Equation. Acta Mathematicae<br>Applicatae Sinica, 2002, 18, 131-146.  | 0.7 | 0         |
| 79 | Numerical method for nonlinear two-phase displacement problem and its application. Applied Mathematics and Mechanics (English Edition), 2008, 29, 639-652.                           | 3.6 | 0         |
| 80 | Global optimization of total power generated from wind farm. , 2014, , .   |     | 0         |
| 81 | High-order characteristic-finite volume methods for aerosol dynamic equations. Journal of<br>Computational and Applied Mathematics, 2020, 370, 112593.                               | 2.0 | 0         |
| 82 | An adaptive wavelet method and its analysis for parabolic equations. Numerical Algebra, Control and Optimization, 2013, 3, 327-345.  | 1.6 | 0         |