

# Zhengfu Xu

## List of Publications by Year in descending order

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17  
papers

581  
citations

687363

13  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

286  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Total variation bounded flux limiters for high order finite difference schemes solving one-dimensional scalar conservation laws. <i>Mathematics of Computation</i> , 2018, 88, 691-716.                       | 2.1 | 4         |
| 2  | High Order Maximum Principle Preserving Finite Volume Method for Convection Dominated Problems. <i>Journal of Scientific Computing</i> , 2016, 67, 795-820.   | 2.3 | 11        |
| 3  | Parametrized Positivity Preserving Flux Limiters for the High Order Finite Difference WENO Scheme Solving Compressible Euler Equations. <i>Journal of Scientific Computing</i> , 2016, 67, 1066-1088.         | 2.3 | 53        |
| 4  | An Explicit High-Order Single-Stage Single-Step Positivity-Preserving Finite Difference WENO Method for the Compressible Euler Equations. <i>Journal of Scientific Computing</i> , 2016, 68, 171-190.         | 2.3 | 14        |
| 5  | Positivity-Preserving Finite Difference Weighted ENO Schemes with Constrained Transport for Ideal Magnetohydrodynamic Equations. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A1825-A1845.         | 2.8 | 43        |
| 6  | Local Discontinuous Galerkin Methods for the Functionalized Cahn-Hilliard Equation. <i>Journal of Scientific Computing</i> , 2015, 63, 913-937.   | 2.3 | 14        |
| 7  | High Order Maximum-Principle-Preserving Discontinuous Galerkin Method for Convection-Diffusion Equations. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, A583-A608.                                  | 2.8 | 31        |
| 8  | High order parametrized maximum-principle-preserving and positivity-preserving WENO schemes on unstructured meshes. <i>Journal of Computational Physics</i> , 2015, 281, 334-351.                             | 3.8 | 37        |
| 9  | Parametrized Maximum Principle Preserving Flux Limiters for High Order Schemes Solving Multi-Dimensional Scalar Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2014, 58, 41-60.       | 2.3 | 35        |
| 10 | High order maximum principle preserving semi-Lagrangian finite difference WENO schemes for the Vlasov equation. <i>Journal of Computational Physics</i> , 2014, 273, 618-639.                                 | 3.8 | 39        |
| 11 | A parametrized maximum principle preserving flux limiter for finite difference RK-WENO schemes with applications in incompressible flows. <i>Journal of Computational Physics</i> , 2013, 252, 310-331.       | 3.8 | 43        |
| 12 | Parametrized Maximum Principle Preserving Limiter for Finite Difference WENO Schemes Solving Convection-Dominated Diffusion Equations. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2524-A2553.   | 2.8 | 18        |
| 13 | Parametrized maximum principle preserving flux limiters for high order schemes solving hyperbolic conservation laws: one-dimensional scalar problem. <i>Mathematics of Computation</i> , 2013, 83, 2213-2238. | 2.1 | 69        |
| 14 | Variational Models of Network Formation and Ion Transport: Applications to Perfluorosulfonate Ionomer Membranes. <i>Polymers</i> , 2012, 4, 630-655.  | 4.5 | 33        |
| 15 | Continuation Finite Element Simulation of Second Harmonic Generation in Photonic Crystals. <i>Communications in Computational Physics</i> , 2011, 10, 57-69.  | 1.7 | 2         |
| 16 | A numerical scheme for nonlinear Helmholtz equations with strong nonlinear optical effects. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 2347.        | 1.5 | 13        |
| 17 | Anti-diffusive flux corrections for high order finite difference WENO schemes. <i>Journal of Computational Physics</i> , 2005, 205, 458-485.  | 3.8 | 122       |