## Yong-Tao Zhang

List of Publications by Year in descending order

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ΥΟΝΟ-ΤΛΟ ΖΗΛΝΟ

#	Article	IF	CITATIONS
1	Resolution of high order WENO schemes for complicated flow structures. Journal of Computational Physics, 2003, 186, 690-696.	1.9	236
2	Formation of the BMP Activity Gradient in the Drosophila Embryo. Developmental Cell, 2005, 8, 915-924.	3.1	175
3	High Order Fast Sweeping Methods for Static Hamilton–Jacobi Equations. Journal of Scientific Computing, 2006, 29, 25-56.	1.1	166
4	High-Order WENO Schemes for HamiltonJacobi Equations on Triangular Meshes. SIAM Journal of Scientific Computing, 2003, 24, 1005-1030.	1.3	147
5	A Fast Sweeping Method for Static Convex Hamilton–Jacobi Equations. Journal of Scientific Computing, 2007, 31, 237-271.	1.1	132
6	Efficient semi-implicit schemes for stiff systems. Journal of Computational Physics, 2006, 214, 521-537.	1.9	91
7	Bare Bones Pattern Formation: A Core Regulatory Network in Varying Geometries Reproduces Major Features of Vertebrate Limb Development and Evolution. PLoS ONE, 2010, 5, e10892.	1.1	83
8	A Robust Reconstruction for Unstructured WENO Schemes. Journal of Scientific Computing, 2013, 54, 603-621.	1.1	70
9	Application of Discontinuous Galerkin Methods forÂReaction-Diffusion Systems in Developmental Biology. Journal of Scientific Computing, 2009, 40, 391-418.	1.1	68
10	Compact integration factor methods in high spatial dimensions. Journal of Computational Physics, 2008, 227, 5238-5255.	1.9	66
11	Numerical viscosity and resolution of high-order weighted essentially nonoscillatory schemes for compressible flows with high Reynolds numbers. Physical Review E, 2003, 68, 046709.	0.8	58
12	Operator splitting implicit integration factor methods for stiff reaction–diffusion–advection systems. Journal of Computational Physics, 2011, 230, 5996-6009.	1.9	55
13	A second order discontinuous Galerkin fast sweeping method for Eikonal equations. Journal of Computational Physics, 2008, 227, 8191-8208.	1.9	47
14	Bifurcation for a free boundary problem modeling the growth of a tumor with a necrotic core. Nonlinear Analysis: Real World Applications, 2012, 13, 694-709.	0.9	47
15	Krylov implicit integration factor methods for spatial discretization on high dimensional unstructured meshes: Application to discontinuous Galerkin methods. Journal of Computational Physics, 2011, 230, 4336-4352.	1.9	44
16	Multiscale Models for Vertebrate Limb Development. Current Topics in Developmental Biology, 2008, 81, 311-340.	1.0	43
17	Fast Sweeping Fifth Order WENO Scheme for Static Hamilton-Jacobi Equations with Accurate Boundary Treatment. Journal of Scientific Computing, 2010, 45, 514-536.	1.1	40
18	Continuation Along Bifurcation Branches for a Tumor Model with a Necrotic Core. Journal of Scientific Computing, 2012, 53, 395-413.	1.1	33

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#	Article	IF	CITATIONS
19	A homotopy method based on WENO schemes for solving steady state problems of hyperbolic conservation laws. Journal of Computational Physics, 2013, 250, 332-346.	1.9	32
20	Computational analysis of BMP gradients in dorsal-ventral patterning of the zebrafish embryo. Journal of Theoretical Biology, 2007, 248, 579-589.	0.8	31
21	Krylov implicit integration factor WENO methods for semilinear and fully nonlinear advection–diffusion–reaction equations. Journal of Computational Physics, 2013, 253, 368-388.	1.9	29
22	Uniformly Accurate Discontinuous Galerkin Fast Sweeping Methods for Eikonal Equations. SIAM Journal of Scientific Computing, 2011, 33, 1873-1896.	1.3	28
23	Mathematical modeling of vertebrate limb development. Mathematical Biosciences, 2013, 243, 1-17.	0.9	26
24	The Morphostatic Limit for a Model of Skeletal Pattern Formation in the Vertebrate Limb. Bulletin of Mathematical Biology, 2008, 70, 460-483.	0.9	25
25	Numerical methods for stiff reaction-diffusion systems. Discrete and Continuous Dynamical Systems - Series B, 2007, 7, 515-525.	0.5	23
26	High Order Fixed-Point Sweeping WENO Methods for Steady State of Hyperbolic Conservation Laws and Its Convergence Study. Communications in Computational Physics, 2016, 20, 835-869.	0.7	22
27	Krylov single-step implicit integration factor WENO methods for advection–diffusion–reaction equations. Journal of Computational Physics, 2016, 311, 22-44.	1.9	19
28	The mechanism of sound generation in the interaction between a shock wave and two counter-rotating vortices. Physics of Fluids, 2009, 21, 076101.	1.6	18
29	Effects of shock waves on Rayleigh-Taylor instability. Physics of Plasmas, 2006, 13, 062705.	0.7	15
30	A Third Order Fast Sweeping Method with Linear Computational Complexity for Eikonal Equations. Journal of Scientific Computing, 2015, 62, 198-229.	1.1	13
31	A Modified Fifth Order Finite Difference Hermite WENO Scheme for Hyperbolic Conservation Laws. Journal of Scientific Computing, 2020, 85, 1.	1.1	13
32	Fixed-point Iterative Sweeping Methods for Static Hamilton-Jacobi Equations. Methods and Applications of Analysis, 2006, 13, 299-320.	0.1	13
33	Krylov Integration Factor Method on Sparse Grids for High Spatial Dimension Convection–Diffusion Equations. Journal of Scientific Computing, 2016, 69, 736-763.	1.1	11
34	A conservative numerical method for the fractional nonlinear SchrĶdinger equation in two dimensions. Science China Mathematics, 2019, 62, 1997-2014.	0.8	9
35	Absolutely convergent fixed-point fast sweeping WENO methods for steady state of hyperbolic conservation laws. Journal of Computational Physics, 2021, 443, 110516.	1.9	9
36	Multiple stable steady states of a reaction-diffusion model on zebrafish dorsal-ventral patterning. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 1413-1428.	0.6	7

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#	Article	IF	CITATIONS
37	Computational Complexity Study on Krylov Integration Factor WENO Method for High Spatial Dimension Convection–Diffusion Problems. Journal of Scientific Computing, 2017, 73, 980-1027.	1.1	6
38	Krylov implicit integration factor discontinuous Galerkin methods on sparse grids for high dimensional reaction-diffusion equations. Journal of Computational Physics, 2019, 388, 90-102.	1.9	6
39	Third order WENO scheme on sparse grids for hyperbolic equations. Pure and Applied Mathematics Quarterly, 2018, 14, 57-86.	0.2	4
40	Fast Sparse Grid Simulations of Fifth Order WENO Scheme for High Dimensional Hyperbolic PDEs. Journal of Scientific Computing, 2021, 87, 1.	1.1	2
41	A Fixed-Point Fast Sweeping WENO Method with Inverse Lax-Wendroff Boundary Treatment for Steady State of Hyperbolic Conservation Laws. Communications on Applied Mathematics and Computation, 2023, 5, 403-427.	0.7	1
42	Cell Biology Modeling Development. , 2015, , 183-189.		0
43	Preface to the Focused Issue on WENO Schemes. Communications on Applied Mathematics and Computation, 2023, 5, 1-2.	0.7	Ο