Yu-Xin Ren

List of Publications by Year
in descending order

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59	1,419	516561 16	330025 37
papers	citations	h-index	g-index

62	62	62	907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids II: Extension to high order finite volume schemes. Journal of Computational Physics, 2012, 231, 4053-4077.	1.9	297
2	A characteristic-wise hybrid compact-WENO scheme for solving hyperbolic conservation laws. Journal of Computational Physics, 2003, 192, 365-386.	1.9	294
3	A robust shock-capturing scheme based on rotated Riemann solvers. Computers and Fluids, 2003, 32, 1379-1403.	1.3	102
4	A class of finite difference schemes with low dispersion and controllable dissipation for DNS of compressible turbulence. Journal of Computational Physics, 2011, 230, 4616-4635.	1.9	76
5	Compact high order finite volume method on unstructured grids III: Variational reconstruction. Journal of Computational Physics, 2017, 337, 1-26.	1.9	75
6	The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids. Journal of Computational Physics, 2011, 230, 7775-7795.	1.9	52
7	Highâ€order kâ€exact WENO finite volume schemes for solving gas dynamic Euler equations on unstructured grids. International Journal for Numerical Methods in Fluids, 2012, 70, 742-763.	0.9	51
8	Compact high order finite volume method on unstructured grids II: Extension to two-dimensional Euler equations. Journal of Computational Physics, 2016, 314, 883-908.	1.9	48
9	Low dispersion finite volume scheme based on reconstruction with minimized dispersion and controllable dissipation. Science China: Physics, Mechanics and Astronomy, 2013, 56, 423-431.	2.0	34
10	Compact high order finite volume method on unstructured grids I: Basic formulations and one-dimensional schemes. Journal of Computational Physics, 2016, 314, 863-882.	1.9	32
11	A class of fully second order accurate projection methods for solving the incompressible Navierâ€“Stokes equations. Journal of Computational Physics, 2004, 200, 325-346.	1.9	30
12	A sixth order hybrid finite difference scheme based on the minimized dispersion and controllable dissipation technique. Journal of Computational Physics, 2014, 270, 238-254.	1.9	27
13	Analytical and numerical study of the near flow field and shape of the Mach stem in steady flows. Journal of Fluid Mechanics, 2006, 546, 341.	1.4	22
14	The multi-dimensional limiters for discontinuous Galerkin method on unstructured grids. Computers and Fluids, 2014, 96, 368-376.	1.3	20
15	General Procedure for Riemann Solver to Eliminate Carbuncle and Shock Instability. AIAA Journal, 2017, 55, 2002-2015.	1.5	18
16	A class of high-order finite difference schemes with minimized dispersion and adaptive dissipation for solving compressible flows. Journal of Computational Physics, 2022, 448, 110770.	1.9	17
17	A Discontinuous Galerkin Method Based on Variational Reconstruction for Compressible Flows on Arbitrary Grids. , 2018, , .		15
18	High-resolution finite difference schemes using curvilinear coordinate grids for DNS of compressible turbulent flow over wavy walls. Computers and Fluids, 2011, 45, 84-91.	1.3	14

#	Article	IF	Citations
19	An accurate and robust finite volume scheme based on the spline interpolation for solving the Euler and Navierâ€“Stokes equations on non-uniform curvilinear grids. Journal of Computational Physics, 2015, 284, 648-667.	1.9	13
20	The discontinuous Galerkin spectral element methods for compressible flows on two-dimensional mixed grids. Journal of Computational Physics, 2018, 364, 314-346.	1.9	13
21	Turbulent mixing and energy transfer of reshocked heavy gas curtain. Physics of Fluids, 2018, 30, .	1.6	12
22	A multi-dimensional upwind scheme for solving Euler and Navierâ€“Stokes equations. Journal of Computational Physics, 2006, 219, 391-403.	1.9	11
23	Compact high order finite volume method on unstructured grids IV: Explicit multi-step reconstruction schemes on compact stencil. Journal of Computational Physics, 2019, 396, 161-192.	1.9	11
24	High-order compact finite volume methods on unstructured grids with adaptive mesh refinement for solving inviscid and viscous flows. Chinese Journal of Aeronautics, 2018, 31, 1829-1841.	2.8	10
25	Drag reduction of compressible wall turbulence with active dimples. Science China: Physics, Mechanics and Astronomy, 2011, 54, 329-337.	2.0	9
26	High order sub-cell finite volume schemes for solving hyperbolic conservation laws II: Extension to two-dimensional systems on unstructured grids. Journal of Computational Physics, 2017, 338, 165-198.	1.9	9
27	A Numerical Strategy for Freestream Preservation of the High Order Weighted Essentially Non-oscillatory Schemes on Stationary Curvilinear Grids. Journal of Scientific Computing, 2017, 72, 1021-1048.	1.1	9
28	The finite volume local evolution Galerkin method for solving the hyperbolic conservation laws. Journal of Computational Physics, 2009, 228, 4945-4960.	1.9	8
29	Mechanism Study of Shock Instability in Riemann-Solver-Based Shock-Capturing Scheme. AIAA Journal, 2018, 56, 3636-3651.	1.5	8
30	A p-weighted limiter for the discontinuous Galerkin method on one-dimensional and two-dimensional triangular grids. Journal of Computational Physics, 2020, 407, 109246.	1.9	8
31	Consistent high resolution interface-capturing finite volume method for compressible multi-material flows. Computers and Fluids, 2020, 202, 104518.	1.3	8
32	High Order Boundary Conditions for High Order Finite Difference Schemes on Curvilinear Coordinates Solving Compressible Flows. Journal of Scientific Computing, 2015, 65, 790-820.	1.1	7
33	A simple algorithm to improve the performance of the WENO scheme on non-uniform grids. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 37-47.	1.5	7
34	A Compact High Order Finite Volume Method Based on Variational Reconstruction for Compressible Flows on Arbitrary Grids. , 2017, , .		6
35	High order sub-cell finite volume schemes for solving hyperbolic conservation laws I: basic formulation and one-dimensional analysis. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	6
36	Numerical study on the turbulent mixing of planar shock-accelerated triangular heavy gases interface. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 855-870.	1.5	6

#	Article	IF	Citations
37	A class of fully third-order accurate projection methods for solving the incompressible Navier-Stokes equations. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 542-549.	1.5	5
38	Computation of the stability derivatives via CFD and the sensitivity equations. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 179-188.	1.5	5
39	Evaluation of the Stability Derivatives Using the Sensitivity Equations. AIAA Journal, 2008, 46, 912-917.	1.5	4
40	High Order Finite Volume Schemes for Solving the Non-Conservative Convection Equations on the Unstructured Grids. Journal of Scientific Computing, 2021, 88, 1.	1.1	3
41	An adaptive artificial viscosity method for quintic spline reconstruction scheme. Computers and Fluids, 2022, 240, 105435.	1.3	3
42	High-order compact finite volume schemes for solving the Reynolds averaged Navier-Stokes equations on the unstructured mixed grids with a large aspect ratio. Journal of Computational Physics, 2022, 467, 111458.	1.9	3
43	Mechanism-Derived Shock Instability Elimination for Riemann-Solver-Based Shock-Capturing Scheme. AIAA Journal, 2018, 56, 3652-3666.	1.5	2
44	ON THE CHARACTERISTICS OF THE MACH STEM. Modern Physics Letters B, 2005, 19, 1511-1514.	1.0	1
45	The Unsteady Loss in One-Stage Transonic Compressor Under Peak Efficiency and Near Stall Conditions. , 2008, , .		1
46	The Influence of Rotor-Stator Spacing on the Loss in One-Stage Transonic Compressor. , 2009, , .		1
47	On the Calculation of Pitch Damping Stability Derivatives of Aircrafts Using Unsteady Sensitivity Equations. , 2015, , .		1
48	A cell-centered Lagrangian method based on local evolution Galerkin scheme for two-dimensional compressible flows. Computers and Fluids, 2016, 128, 65-76.	1.3	1
49	High Resolution Finite Volume Scheme Based on the Quintic Spline Reconstruction on Non-uniform Grids. Journal of Scientific Computing, 2018, 74, 1816-1852.	1.1	1
50	The computation of the pitch damping stability derivatives of supersonic blunt cones using unsteady sensitivity equations. Advances in Aerodynamics, 2019, 1, .	1.3	1
51	High Order Compact Generalized Finite Difference Methods for Solving Inviscid Compressible Flows. Journal of Scientific Computing, 2020, 82, 1.	1.1	1
52	The shape of incident shock wave in steady axisymmetric conical Mach reflection. Advances in Aerodynamics, 2020, 2, .	1.3	1
53	The Development of the Characteristic-Wise Hybrid Compact-WENO Scheme for Solving the Euler and Navier-Stokes Equations. , 2010, , 279-296.		0
54	High order subcell finite volume method in solving hyperbolic conservation laws. , 2015, , .		0

#	Article	IF	Citations
55	A compact high order finite volume method for hyperbolic conservation laws on unstructured grids. , 2015, , .		0
56	Wall Distance Computation Based on Higher-Order Variational Reconstruction on Unstructured Grids. Lecture Notes in Mechanical Engineering, 2021, , 109-117.	0.3	0
57	An Optimal Finite Difference Scheme with Minimized Dispersion and Adaptive Dissipation Considering the Spectral Properties of the Fully Discrete Scheme. Journal of Scientific Computing, 2021, 89, 1.	1.1	0
58	A Characteristic-Wise Hybrid Compact-WENO Scheme for Solving the Navier-Stokes Equations on Curvilinear Coordinates. , 2009, , 437-442.		0
59	The Finite Volume Local Evolution Galerkin Method for Solving the Euler Equations. , 2009, , 739-745.		0