

Yu-Xin Ren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3854876/publications.pdf>

Version: 2024-02-01

59
papers

1,419
citations

516215

16
h-index

329751

37
g-index

62
all docs

62
docs citations

62
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	A class of high-order finite difference schemes with minimized dispersion and adaptive dissipation for solving compressible flows. <i>Journal of Computational Physics</i> , 2022, 448, 110770.	1.9	17
2	An adaptive artificial viscosity method for quintic spline reconstruction scheme. <i>Computers and Fluids</i> , 2022, 240, 105435.	1.3	3
3	High-order compact finite volume schemes for solving the Reynolds averaged Navier-Stokes equations on the unstructured mixed grids with a large aspect ratio. <i>Journal of Computational Physics</i> , 2022, 467, 111458.	1.9	3
4	Wall Distance Computation Based on Higher-Order Variational Reconstruction on Unstructured Grids. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 109-117.	0.3	0
5	High Order Finite Volume Schemes for Solving the Non-Conservative Convection Equations on the Unstructured Grids. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	1.1	3
6	An Optimal Finite Difference Scheme with Minimized Dispersion and Adaptive Dissipation Considering the Spectral Properties of the Fully Discrete Scheme. <i>Journal of Scientific Computing</i> , 2021, 89, 1.	1.1	0
7	A p-weighted limiter for the discontinuous Galerkin method on one-dimensional and two-dimensional triangular grids. <i>Journal of Computational Physics</i> , 2020, 407, 109246.	1.9	8
8	Consistent high resolution interface-capturing finite volume method for compressible multi-material flows. <i>Computers and Fluids</i> , 2020, 202, 104518.	1.3	8
9	High Order Compact Generalized Finite Difference Methods for Solving Inviscid Compressible Flows. <i>Journal of Scientific Computing</i> , 2020, 82, 1.	1.1	1
10	The shape of incident shock wave in steady axisymmetric conical Mach reflection. <i>Advances in Aerodynamics</i> , 2020, 2, .	1.3	1
11	The computation of the pitch damping stability derivatives of supersonic blunt cones using unsteady sensitivity equations. <i>Advances in Aerodynamics</i> , 2019, 1, .	1.3	1
12	Compact high order finite volume method on unstructured grids IV: Explicit multi-step reconstruction schemes on compact stencil. <i>Journal of Computational Physics</i> , 2019, 396, 161-192.	1.9	11
13	A Discontinuous Galerkin Method Based on Variational Reconstruction for Compressible Flows on Arbitrary Grids. , 2018, , .		15
14	The discontinuous Galerkin spectral element methods for compressible flows on two-dimensional mixed grids. <i>Journal of Computational Physics</i> , 2018, 364, 314-346.	1.9	13
15	A simple algorithm to improve the performance of the WENO scheme on non-uniform grids. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 37-47.	1.5	7
16	High Resolution Finite Volume Scheme Based on the Quintic Spline Reconstruction on Non-uniform Grids. <i>Journal of Scientific Computing</i> , 2018, 74, 1816-1852.	1.1	1
17	Numerical study on the turbulent mixing of planar shock-accelerated triangular heavy gases interface. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 855-870.	1.5	6
18	Turbulent mixing and energy transfer of reshocked heavy gas curtain. <i>Physics of Fluids</i> , 2018, 30, .	1.6	12

#	ARTICLE	IF	CITATIONS
19	Mechanism Study of Shock Instability in Riemann-Solver-Based Shock-Capturing Scheme. AIAA Journal, 2018, 56, 3636-3651.	1.5	8
20	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
21	Mechanism-Derived Shock Instability Elimination for Riemann-Solver-Based Shock-Capturing Scheme. AIAA Journal, 2018, 56, 3652-3666.	1.5	2
22	Compact high order finite volume method on unstructured grids III: Variational reconstruction. Journal of Computational Physics, 2017, 337, 1-26.	1.9	75
23	General Procedure for Riemann Solver to Eliminate Carbuncle and Shock Instability. AIAA Journal, 2017, 55, 2002-2015.	1.5	18
24	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
25	A Compact High Order Finite Volume Method Based on Variational Reconstruction for Compressible Flows on Arbitrary Grids. , 2017, , .		6
26	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
27	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
28	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
29	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
30	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
31	On the Calculation of Pitch Damping Stability Derivatives of Aircrafts Using Unsteady Sensitivity Equations. , 2015, , .		1
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	An accurate and robust finite volume scheme based on the spline interpolation for solving the Euler and Navier-Stokes equations on non-uniform curvilinear grids. Journal of Computational Physics, 2015, 284, 648-667.	1.9	13
34	High order subcell finite volume method in solving hyperbolic conservation laws. , 2015, , .		0
35	A compact high order finite volume method for hyperbolic conservation laws on unstructured grids. , 2015, , .		0
36	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

#	ARTICLE	IF	CITATIONS
37	The multi-dimensional limiters for discontinuous Galerkin method on unstructured grids. <i>Computers and Fluids</i> , 2014, 96, 368-376.	1.3	20
38	Low dispersion finite volume scheme based on reconstruction with minimized dispersion and controllable dissipation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 423-431.	2.0	34
39	High-order k -exact WENO finite volume schemes for solving gas dynamic Euler equations on unstructured grids. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 742-763.	0.9	51
40	The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids II: Extension to high order finite volume schemes. <i>Journal of Computational Physics</i> , 2012, 231, 4053-4077.	1.9	297
41	The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids. <i>Journal of Computational Physics</i> , 2011, 230, 7775-7795.	1.9	52
42	Computation of the stability derivatives via CFD and the sensitivity equations. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2011, 27, 179-188.	1.5	5
43	A class of finite difference schemes with low dispersion and controllable dissipation for DNS of compressible turbulence. <i>Journal of Computational Physics</i> , 2011, 230, 4616-4635.	1.9	76
44	High-resolution finite difference schemes using curvilinear coordinate grids for DNS of compressible turbulent flow over wavy walls. <i>Computers and Fluids</i> , 2011, 45, 84-91.	1.3	14
45	Drag reduction of compressible wall turbulence with active dimples. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 329-337.	2.0	9
46	The Development of the Characteristic-Wise Hybrid Compact-WENO Scheme for Solving the Euler and Navier-Stokes Equations. , 2010, , 279-296.		0
47	The Influence of Rotor-Stator Spacing on the Loss in One-Stage Transonic Compressor. , 2009, , .		1
48	The finite volume local evolution Galerkin method for solving the hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2009, 228, 4945-4960.	1.9	8
49	A Characteristic-Wise Hybrid Compact-WENO Scheme for Solving the Navier-Stokes Equations on Curvilinear Coordinates. , 2009, , 437-442.		0
50	The Finite Volume Local Evolution Galerkin Method for Solving the Euler Equations. , 2009, , 739-745.		0
51	Evaluation of the Stability Derivatives Using the Sensitivity Equations. <i>AIAA Journal</i> , 2008, 46, 912-917.	1.5	4
52	The Unsteady Loss in One-Stage Transonic Compressor Under Peak Efficiency and Near Stall Conditions. , 2008, , .		1
53	Analytical and numerical study of the near flow field and shape of the Mach stem in steady flows. <i>Journal of Fluid Mechanics</i> , 2006, 546, 341.	1.4	22
54	A multi-dimensional upwind scheme for solving Euler and Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2006, 219, 391-403.	1.9	11

#	ARTICLE	IF	CITATIONS
55	A class of fully third-order accurate projection methods for solving the incompressible Navier-Stokes equations. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005, 21, 542-549.	1.5	5
56	ON THE CHARACTERISTICS OF THE MACH STEM. <i>Modern Physics Letters B</i> , 2005, 19, 1511-1514.	1.0	1
57	A class of fully second order accurate projection methods for solving the incompressible Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2004, 200, 325-346.	1.9	30
58	A characteristic-wise hybrid compact-WENO scheme for solving hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2003, 192, 365-386.	1.9	294
59	A robust shock-capturing scheme based on rotated Riemann solvers. <i>Computers and Fluids</i> , 2003, 32, 1379-1403.	1.3	102