

# Laiping Zhang

## List of Publications by Year in descending order

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27  
papers

910  
citations

933447

10  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral (finite) volume method for conservation laws on unstructured grids IV: extension to two-dimensional systems. <i>Journal of Computational Physics</i> , 2004, 194, 716-741.	3.8	491
2	A class of hybrid DG/FV methods for conservation laws I: Basic formulation and one-dimensional systems. <i>Journal of Computational Physics</i> , 2012, 231, 1081-1103.	3.8	78
3	A class of hybrid DG/FV methods for conservation laws II: Two-dimensional cases. <i>Journal of Computational Physics</i> , 2012, 231, 1104-1120.	3.8	75
4	Numerical study of the thunniform mode of fish swimming with different Reynolds number and caudal fin shape. <i>Computers and Fluids</i> , 2012, 68, 54-70.	2.5	55
5	Applications of dynamic hybrid grid method for three-dimensional moving/deforming boundary problems. <i>Computers and Fluids</i> , 2012, 62, 45-63.	2.5	29
6	A class of DG/FV hybrid schemes for conservation law IV: 2D viscous flows and implicit algorithm for steady cases. <i>Computers and Fluids</i> , 2014, 97, 110-125.	2.5	26
7	Numerical investigation on aerodynamic performance of a bionic flapping wing. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 1625-1646.	3.6	15
8	A numerical simulation method for bionic fish self-propelled swimming under control based on deep reinforcement learning. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 3397-3415.	2.1	15
9	An efficient large-scale mesh deformation method based on MPI/OpenMP hybrid parallel radial basis function interpolation. <i>Chinese Journal of Aeronautics</i> , 2020, 33, 1392-1404.	5.3	14
10	Further study on the geometric conservation law for finite volume method on dynamic unstructured mesh. <i>Computers and Fluids</i> , 2015, 120, 98-110.	2.5	12
11	A 3D hybrid grid generation technique and a multigrid/parallel algorithm based on anisotropic agglomeration approach. <i>Chinese Journal of Aeronautics</i> , 2013, 26, 47-62.	5.3	10
12	A parallel implicit hole-cutting method based on background mesh for unstructured Chimera grid. <i>Computers and Fluids</i> , 2020, 198, 104403.	2.5	10
13	Learning how to avoid obstacles: A numerical investigation for maneuvering of self-propelled fish based on deep reinforcement learning. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 3073-3091.	1.6	10
14	On the Geometric Conservation Law for Unsteady Flow Simulations on Moving Mesh. <i>Procedia Engineering</i> , 2015, 126, 639-644.	1.2	9
15	HyperFLOW: A Structured/Unstructured Hybrid Integrated Computational Environment for Multi-purpose Fluid Simulation. <i>Procedia Engineering</i> , 2015, 126, 645-649.	1.2	8
16	Numerical Virtual Flight Simulation of Quasi-Cobra Maneuver of a Fighter Aircraft. <i>Journal of Aircraft</i> , 2021, 58, 138-152.	2.4	8
17	A CFD-based numerical virtual flight simulator and its application in control law design of a maneuverable missile model. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 2577-2591.	5.3	7
18	A large-scale parallel hybrid grid generation technique for realistic complex geometry. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1235-1255.	1.6	7

#	ARTICLE	IF	CITATIONS
19	An Improved Second-Order Finite-Volume Algorithm for Detached-Eddy Simulation Based on Hybrid Grids. <i>Communications in Computational Physics</i> , 2016, 20, 459-485.	1.7	6
20	Detached Eddy Simulation of Complex Separation Flows Over a Modern Fighter Model at High Angle of Attack. <i>Communications in Computational Physics</i> , 2017, 22, 1309-1332.	1.7	5
21	Applications of multi-dimensional schemes on unstructured grids for high-accuracy heat flux prediction. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020, 36, 57-71.	3.4	5
22	Applications of High Order Hybrid DG/FV Schemes for Two-dimensional RANS Simulations. <i>Procedia Engineering</i> , 2015, 126, 628-632.	1.2	4
23	An automatic isotropic/anisotropic hybrid grid generation technique for viscous flow simulations based on an artificial neural network. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 102-117.	5.3	4
24	An Implicit Algorithm for High-Order DG/FV Schemes for Compressible Flows on 2D Arbitrary Grids. <i>Communications in Computational Physics</i> , 2015, 17, 287-316.	1.7	3
25	High-order curvilinear mesh generation technique based on an improved radius basic function approach. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 91, 97-111.	1.6	3
26	Detached-eddy Simulation of Subsonic Flow Past a Delta Wing. <i>Procedia Engineering</i> , 2015, 126, 584-587.	1.2	1
27	An Automatic Isotropic Triangular Grid Generation Technique Based on an Artificial Neural Network and an Advancing Front Method. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-20.	1.1	0