

# Laiping Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/796364/publications.pdf>

Version: 2024-02-01

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  | An automatic isotropic/anisotropic hybrid grid generation technique for viscous flow simulations based on an artificial neural network. Chinese Journal of Aeronautics, 2022, 35, 102-117.   | 5.3 | 4         |
| 2  | An Automatic Isotropic Triangular Grid Generation Technique Based on an Artificial Neural Network and an Advancing Front Method. Mathematical Problems in Engineering, 2022, 2022, 1-20.   | 1.1 | 0         |
| 3  | Numerical Virtual Flight Simulation of Quasi-Cobra Maneuver of a Fighter Aircraft. Journal of Aircraft, 2021, 58, 138-152.   | 2.4 | 8         |
| 4  | Learning how to avoid obstacles: A numerical investigation for maneuvering of self-propelled fish based on deep reinforcement learning. International Journal for Numerical Methods in Fluids, 2021, 93, 3073-3091.  | 1.6 | 10        |
| 5  | A parallel implicit hole-cutting method based on background mesh for unstructured Chimera grid. Computers and Fluids, 2020, 198, 104403.   | 2.5 | 10        |
| 6  | Applications of multi-dimensional schemes on unstructured grids for high-accuracy heat flux prediction. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 57-71.   | 3.4 | 5         |
| 7  | A numerical simulation method for bionic fish self-propelled swimming under control based on deep reinforcement learning. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 3397-3415. | 2.1 | 15        |
| 8  | A large-scale parallel hybrid grid generation technique for realistic complex geometry. International Journal for Numerical Methods in Fluids, 2020, 92, 1235-1255.  | 1.6 | 7         |
| 9  | An efficient large-scale mesh deformation method based on MPI/OpenMP hybrid parallel radial basis function interpolation. Chinese Journal of Aeronautics, 2020, 33, 1392-1404.   | 5.3 | 14        |
| 10 | Numerical investigation on aerodynamic performance of a bionic flapping wing. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1625-1646.  | 3.6 | 15        |
| 11 | A CFD-based numerical virtual flight simulator and its application in control law design of a maneuverable missile model. Chinese Journal of Aeronautics, 2019, 32, 2577-2591.   | 5.3 | 7         |
| 12 | High-order curvilinear mesh generation technique based on an improved radius basic function approach. International Journal for Numerical Methods in Fluids, 2019, 91, 97-111.   | 1.6 | 3         |
| 13 | Detached Eddy Simulation of Complex Separation Flows Over a Modern Fighter Model at High Angle of Attack. Communications in Computational Physics, 2017, 22, 1309-1332.  | 1.7 | 5         |
| 14 | An Improved Second-Order Finite-Volume Algorithm for Detached-Eddy Simulation Based on Hybrid Grids. Communications in Computational Physics, 2016, 20, 459-485.   | 1.7 | 6         |
| 15 | HyperFLOW: A Structured/Unstructured Hybrid Integrated Computational Environment for Multi-purpose Fluid Simulation. Procedia Engineering, 2015, 126, 645-649.   | 1.2 | 8         |
| 16 | Detached-eddy Simulation of Subsonic Flow Past a Delta Wing. Procedia Engineering, 2015, 126, 584-587.   | 1.2 | 1         |
| 17 | Applications of High Order Hybrid DG/FV Schemes for Two-dimensional RANS Simulations. Procedia Engineering, 2015, 126, 628-632.  | 1.2 | 4         |
| 18 | On the Geometric Conservation Law for Unsteady Flow Simulations on Moving Mesh. Procedia Engineering, 2015, 126, 639-644.  | 1.2 | 9         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Further study on the geometric conservation law for finite volume method on dynamic unstructured mesh. Computers and Fluids, 2015, 120, 98-110.                             | 2.5 | 12        |
| 20 | An Implicit Algorithm for High-Order DG/FV Schemes for Compressible Flows on 2D Arbitrary Grids. Communications in Computational Physics, 2015, 17, 287-316.                | 1.7 | 3         |
| 21 | A class of DG/FV hybrid schemes for conservation law IV: 2D viscous flows and implicit algorithm for steady cases. Computers and Fluids, 2014, 97, 110-125.                 | 2.5 | 26        |
| 22 | A 3D hybrid grid generation technique and a multigrid/parallel algorithm based on anisotropic agglomeration approach. Chinese Journal of Aeronautics, 2013, 26, 47-62.      | 5.3 | 10        |
| 23 | Numerical study of the thunniform mode of fish swimming with different Reynolds number and caudal fin shape. Computers and Fluids, 2012, 68, 54-70.                         | 2.5 | 55        |
| 24 | Applications of dynamic hybrid grid method for three-dimensional moving/deforming boundary problems. Computers and Fluids, 2012, 62, 45-63.                                 | 2.5 | 29        |
| 25 | A class of hybrid DG/FV methods for conservation laws II: Two-dimensional cases. Journal of Computational Physics, 2012, 231, 1104-1120.                                    | 3.8 | 75        |
| 26 | A class of hybrid DG/FV methods for conservation laws I: Basic formulation and one-dimensional systems. Journal of Computational Physics, 2012, 231, 1081-1103.             | 3.8 | 78        |
| 27 | Spectral (finite) volume method for conservation laws on unstructured grids IV: extension to two-dimensional systems. Journal of Computational Physics, 2004, 194, 716-741. | 3.8 | 491       |