

Jiazhong Zhang

List of Publications by Year in descending order

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papers

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759233

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citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical bifurcation analysis of static stall of airfoil and dynamic stall under unsteady perturbation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 3427-3434.	3.3	56
2	Targeted energy transfer between 2-D wing and nonlinear energy sinks and their dynamic behaviors. <i>Nonlinear Dynamics</i> , 2017, 90, 1841-1850.	5.2	25
3	Lagrangian analysis of mass transport and its influence on the lift enhancement in a flow over the airfoil with a synthetic jet. <i>Aerospace Science and Technology</i> , 2019, 86, 11-20.	4.8	23
4	Steady flow of a power law fluid through a tapered non-symmetric stenotic tube. <i>Applied Mathematics and Nonlinear Sciences</i> , 2019, 4, 255-266.	1.6	22
5	Lagrangian analysis on routes to lift enhancement of airfoil by synthetic jet and their relationships with jet parameters. <i>Aerospace Science and Technology</i> , 2020, 104, 105947.	4.8	20
6	Dynamic Stability of Doubly Curved Orthotropic Shallow Shells Under Impact. <i>AIAA Journal</i> , 2001, 39, 956-961.	2.6	18
7	Lock-in mechanism of flow over a low-Reynolds-number airfoil with morphing surface. <i>Aerospace Science and Technology</i> , 2020, 97, 105647.	4.8	17
8	A Route to Chaotic Behavior of Single Neuron Exposed to External Electromagnetic Radiation. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 94.	2.1	16
9	Lattice Boltzmann simulations of axisymmetric natural convection with anisotropic thermal diffusion. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 1304-1315.	4.8	14
10	Study on dynamics of vortices in dynamic stall of a pitching airfoil using Lagrangian coherent structures. <i>Aerospace Science and Technology</i> , 2021, 113, 106706.	4.8	14
11	Model reduction on inertial manifolds for Navier-Stokes equations approached by multilevel finite element method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 195-205.	3.3	13
12	Analysis of Curved Panel Flutter in Supersonic and Transonic Airflows Using a Fluid-Structure Coupling Algorithm. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017, 139, .	1.6	13
13	Identify the Rotating Stall in Centrifugal Compressors by Fractal Dimension in Reconstructed Phase Space. <i>Entropy</i> , 2015, 17, 7888-7899.	2.2	12
14	Study on the transports in transient flow over impulsively started circular cylinder using Lagrangian coherent structures. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 953-963.	3.3	12
15	Using Lagrangian coherent structure to understand vortex dynamics in flow around plunging airfoil. <i>Journal of Fluids and Structures</i> , 2016, 67, 142-155.	3.4	11
16	Predicting Traffic Flow in Local Area Networks by the Largest Lyapunov Exponent. <i>Entropy</i> , 2016, 18, 32.	2.2	10
17	Double MRT lattice Boltzmann model for axisymmetric convective flow in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 810-813.	4.8	10
18	Study of laminar natural convection in a vertical annulus with inner wall covered by a porous layer by using lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2019, 135, 386-397.	4.9	10

#	ARTICLE	IF	CITATIONS
19	Numerical Study on the Route of Flame-Induced Thermoacoustic Instability in a Rijke Burner. Applied Sciences (Switzerland), 2021, 11, 1590.	2.5	10
20	Analysis of Supersonic and Transonic Panel Flutter Using a Fluid-Structure Coupling Algorithm. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, .	1.6	9
21	CALCULATION AND BIFURCATION OF FLUID FILM WITH CAVITATION BASED ON VARIATIONAL INEQUALITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 43-55.	1.7	8
22	Spike-like solitary waves in incompressible boundary layers driven by a travelling wave. Chaos, 2016, 26, 063104.	2.5	7
23	Analysis of Transport and Mixing Phenomenon to Invariant Manifolds Using LCS and KAM Theory Approach in Unsteady Dynamical Systems. IEEE Access, 2020, 8, 141057-141065.	4.2	7
24	Local vibrations and lift performance of low Reynolds number airfoil. Propulsion and Power Research, 2017, 6, 79-90.	4.3	6
25	Thermalized solution of the Galerkin-truncated Burgers equation: From the birth of local structures to thermalization. Communications in Nonlinear Science and Numerical Simulation, 2017, 45, 104-116.	3.3	6
26	A geometric singular perturbation approach for planar stationary shock waves. Physica D: Nonlinear Phenomena, 2015, 310, 19-36.	2.8	5
27	Iterative finite element variational multiscale method for the incompressible Navier-Stokes equations. Journal of Computational and Applied Mathematics, 2018, 340, 53-70.	2.0	5
28	AEROTHERMOELASTIC MODEL OF PANEL FLUTTER WITH CONSIDERATION OF THE HISTORY EFFECTS OF AERODYNAMIC HEATING. International Journal of Applied Mechanics, 2012, 04, 1250034.	2.2	4
29	A modified lattice Bhatnagar-Gross-Krook model for axisymmetric thermal flow. International Journal of Heat and Mass Transfer, 2017, 108, 691-702.	4.8	3
30	Study on Mass Transports in Evolution of Separation Bubbles Using LCSs and Lobe Dynamics. Communications in Computational Physics, 2017, 22, 285-302.	1.7	3
31	On synchronization in flow over airfoil with local oscillating flexible surface at high angle of attack using Lagrangian coherent structures. European Physical Journal: Special Topics, 2019, 228, 1515-1525.	2.6	3
32	Small-world effects in a modified epidemiological model with mutation and permanent immune mechanism. Nonlinear Dynamics, 2021, 106, 1557-1572.	5.2	3
33	Space-time spectral element method solution for the acoustic wave equation and its dispersion analysis. Acoustical Science and Technology, 2017, 38, 303-313.	0.5	3
34	Investigation of Aerothermoelastic Behaviors of Functionally Graded Panels in Supersonic Flows. Journal of Thermal Stresses, 2015, 38, 882-903.	2.0	2
35	Regularized lattice Bhatnagar-Gross-Krook model for the thermal flow in porous media. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 405-415.	2.1	2
36	A Lagrangian Analysis of Vortex Formation in the Wake behind a Transversely Oscillating Cylinder. Regular and Chaotic Dynamics, 2018, 23, 583-594.	0.8	2

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37	Resonance capture and targeted energy transfer for suppressing aeroelastic instability of 2-D wing. European Physical Journal: Special Topics, 2019, 228, 1873-1889.	2.6	2
38	Numerical Analysis of Panel Flutter on Inertial Manifolds With Delay. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	1
39	Some Singularities in Fluid Dynamics and Their Bifurcation Analysis. Advances in Dynamics, Patterns, Cognition, 2016, , 39-73.	0.3	1
40	Devil's staircases in a thermoacoustic system with sinusoidal excitations. European Physical Journal: Special Topics, 2019, 228, 1891-1901.	2.6	1
41	Bifurcation Analysis of the Oblique Shock Wave in the Supersonic Flow Over a Wedge from a Calculus of Variation Approach. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750048.	1.7	0
42	A Multilevel Finite Element Variational Multiscale Method for Incompressible Navier-Stokes Equations Based on Two Local Gauss Integrations. Mathematical Problems in Engineering, 2017, 2017, 1-13.	1.1	0
43	Bifurcation Characteristics of Airfoil-NESs coupled System. IOP Conference Series: Materials Science and Engineering, 2021, 1081, 012007.	0.6	0