Jiazhong Zhang

List of Publications by Year
in descending order

43 papers	409 citations	759233 12 h-index	839539 18 g-index
44 all docs	44 docs citations	44 times ranked	379 citing authors

#	Article	IF	Citations
1	Numerical Study on the Route of Flame-Induced Thermoacoustic Instability in a Rijke Burner. Applied Sciences (Switzerland), 2021, 11, 1590.	2.5	10
2	Bifurcation Characteristics of Airfoil-NESs coupled System. IOP Conference Series: Materials Science and Engineering, 2021, 1081, 012007.	0.6	0
3	Small-world effects in a modified epidemiological model with mutation and permanent immune mechanism. Nonlinear Dynamics, 2021, 106, 1557-1572.	5.2	3
4	Study on dynamics of vortices in dynamic stall of a pitching airfoil using Lagrangian coherent structures. Aerospace Science and Technology, 2021, 113, 106706.	4.8	14
5	Lock-in mechanism of flow over a low-Reynolds-number airfoil with morphing surface. Aerospace Science and Technology, 2020, 97, 105647.	4.8	17
6	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
7	Lagrangian analysis on routes to lift enhancement of airfoil by synthetic jet and their relationships with jet parameters. Aerospace Science and Technology, 2020, 104, 105947.	4.8	20
8	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
9	Devil's staircases in a thermoacoustic system with sinusoidal excitations. European Physical Journal: Special Topics, 2019, 228, 1891-1901.	2.6	1
10	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
11	Lagrangian analysis of mass transport and its influence on the lift enhancement in a flow over the airfoil with a synthetic jet. Aerospace Science and Technology, 2019, 86, 11-20.	4.8	23
12	Study of laminar natural convection in a vertical annulus with inner wall covered by a porous layer by using lattice Boltzmann method. International Journal of Thermal Sciences, 2019, 135, 386-397.	4.9	10
13	Steady flow of a power law fluid through a tapered non-symmetric stenotic tube. Applied Mathematics and Nonlinear Sciences, 2019, 4, 255-266.	1.6	22
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	Analysis of Curved Panel Flutter in Supersonic and Transonic Airflows Using a Fluidâ€"Structure Coupling Algorithm. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	13
21	Double MRT lattice Boltzmann model for axisymmetric convective flow in porous media. International Journal of Heat and Mass Transfer, 2017, 112, 810-813.	4.8	10
22	Targeted energy transfer between 2-D wing and nonlinear energy sinks and their dynamic behaviors. Nonlinear Dynamics, 2017, 90, 1841-1850.	5.2	25
23	Local vibrations and lift performance of low Reynolds number airfoil. Propulsion and Power Research, 2017, 6, 79-90.	4.3	6
24	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
25	A Route to Chaotic Behavior of Single Neuron Exposed to External Electromagnetic Radiation. Frontiers in Computational Neuroscience, 2017, 11, 94.	2.1	16
26	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
27	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
28	Predicting Traffic Flow in Local Area Networks by the Largest Lyapunov Exponent. Entropy, 2016, 18, 32.	2.2	10
29	Spike-like solitary waves in incompressible boundary layers driven by a travelling wave. Chaos, 2016, 26, 063104.	2.5	7
30	Some Singularities in Fluid Dynamics and Their Bifurcation Analysis. Advances in Dynamics, Patterns, Cognition, 2016, , 39-73.	0.3	1
31	Lattice Boltzmann simulations of axisymmetric natural convection with anisotropic thermal diffusion. International Journal of Heat and Mass Transfer, 2016, 101, 1304-1315.	4.8	14
32	Using Lagrangian coherent structure to understand vortex dynamics in flow around plunging airfoil. Journal of Fluids and Structures, 2016, 67, 142-155.	3.4	11
33	Identify the Rotating Stall in Centrifugal Compressors by Fractal Dimension in Reconstructed Phase Space. Entropy, 2015, 17, 7888-7899.	2.2	12
34	Investigation of Aerothermoelastic Behaviors of Functionally Graded Panels in Supersonic Flows. Journal of Thermal Stresses, 2015, 38, 882-903.	2.0	2
35	A geometric singular perturbation approach for planar stationary shock waves. Physica D: Nonlinear Phenomena, 2015, 310, 19-36.	2.8	5
36	Study on the transports in transient flow over impulsively started circular cylinder using Lagrangian coherent structures. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 953-963.	3.3	12

#	Article	IF	Citations
37	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
38	Numerical Analysis of Panel Flutter on Inertial Manifolds With Delay. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	1.2	1
39	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
40	Numerical bifurcation analysis of static stall of airfoil and dynamic stall under unsteady perturbation. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3427-3434.	3.3	56
41	Model reduction on inertial manifolds for N–S equations approached by multilevel finite element method. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 195-205.	3.3	13
42	Dynamic Stability of Doubly Curved Orthotropic Shallow Shells Under Impact. AIAA Journal, 2001, 39, 956-961.	2.6	18
43	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