Junqiang Bai

List of Publications by Year
in descending order

23 papers	432 citations	840776 11 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	169 citing authors

#	Article	IF	Citations
1	Fast pressure distribution prediction of airfoils using deep learning. Aerospace Science and Technology, 2020, 105, 105949.	4.8	87
2	Fully Local Formulation of a Transition Closure Model for Transitional Flow Simulations. AIAA Journal, 2016, 54, 3015-3023.	2.6	39
3	Parallel Compatible Transition Closure Model for High-Speed Transitional Flow. AIAA Journal, 2017, 55, 3040-3050.	2.6	34
4	Improved local amplification factor transport equation for stationary crossflow instability in subsonic and transonic flows. Chinese Journal of Aeronautics, 2020, 33, 3073-3081.	5.3	32
5	Secondary instability of Mack mode disturbances in hypersonic boundary layers over micro-porous surface. Physics of Fluids, 2020, 32, .	4.0	31
6	Development of a computational fluid dynamics compatible mathematical model for boundary layer transitional flows in low-disturbance environment. Aerospace Science and Technology, 2019, 86, 487-496.	4.8	27
7	Fully Local Transition Closure Model for Hypersonic Boundary Layers Considering Crossflow Effects. AIAA Journal, 2021, 59, 1692-1706.	2.6	25
8	Transition study of 3D aerodynamic configures using improved transport equations modeling. Chinese Journal of Aeronautics, 2016, 29, 874-881.	5.3	22
9	Study of boundary layer transition on supercritical natural laminar flow wing at high Reynolds number through wind tunnel experiment. Aerospace Science and Technology, 2018, 80, 221-231.	4.8	22
10	Fully Local Amplification Factor Transport Equation for Stationary Crossflow Instabilities. AIAA Journal, 2019, 57, 2682-2693.	2.6	22
11	Pressure gradient effects on the secondary instability of Mack mode disturbances in hypersonic boundary layers. Physics of Fluids, 2021, 33, .	4.0	13
12	Numerical study of interactions between shock waves and a circular or elliptic bubble in air medium. Physics of Fluids, 2021, 33, .	4.0	12
13	Multi-object aerodynamic design optimization using deep reinforcement learning. AIP Advances, 2021, 11, .	1.3	12
14	A novel local-variable-based Reynolds-averaged Navierâ€“Stokes closure model for bypass and laminar separation induced transition. Physics of Fluids, 2021, 33, .	4.0	10
15	Modeling of surface roughness effects on bypass and laminar separation bubble-induced transition for turbomachinery flows. Physics of Fluids, 2022, 34, .	4.0	10
16	Velocity-free prescribed performance control for spacecraft hovering over an asteroid with input saturation. Journal of the Franklin Institute, 2020, 357, 6471-6497.	3.4	8
17	Twistor-Based Adaptive Pose Control of Spacecraft for Landing on an Asteroid With Collision Avoidance. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 152-167.	4.7	8
18	A Galilean Invariant Variableâ€“Based RANS Closure Model for Bypass and Laminar Separation Bubbleâ€“Induced Transition. Journal of Aerospace Engineering, 2022, 35, .	1.4	5

#	Article	IF	Citations
19	A CFD-Compatible Amplification Factor Transport Equation for Oblique Tollmien-Schlichting Waves in Supersonic Boundary Layers. International Journal of Aerospace Engineering, 2020, 2020, 1-12.	0.9	4
20	Far-field drag decomposition using hybrid formulas and vorticity based area sensors. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 1411-1426.	1.3	4
21	Surface Roughness Effects on Unsteady Transition Property over a Pitching Airfoil. Journal of Aerospace Engineering, 2022, 35, .	1.4	4
22	Impact Response Prediction Method of Packaging Systems with a Key Component considering Different Excitations and Cushioning Materials. Shock and Vibration, 2022, 2022, 1-11.	0.6	1
23	A Galilean-Invariant-Variable-Based RANS Closure Model for Bypass and Laminar-Separation-Bubble Induced Transition. , 2022, , .		0