Honghua Dai, 代挃卂

List of Publications by Year
in descending order

34 papers	966 citations	430874 18 h-index	434195 31 g-index
34 all docs	34 docs citations	34 times ranked	595 citing authors

#	Article	IF	Citations
1	Dynamic analysis of detumbling a rotating satellite using flexible deceleration rod. Nonlinear Dynamics, 2022, 108, 3331-3345.	5.2	8
2	Dynamics and control of a bio-inspired Stewart platform. Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University, 2021, 39, 258-266.	0.5	2
3	Vibration suppression for post-capture spacecraft via a novel bio-inspired Stewart isolation system. Acta Astronautica, 2020, 168, 1-22.	3.2	24
4	Bio-inspired anti-impact manipulator for capturing non-cooperative spacecraft: theory and experiment. Mechanical Systems and Signal Processing, 2020, 142, 106785.	8.0	45
5	Learning-Based Adaptive Attitude Control of Spacecraft Formation With Guaranteed Prescribed Performance. IEEE Transactions on Cybernetics, 2019, 49, 4004-4016.	9.5	129
6	Effects of damage parametric changes on the aeroelastic behaviors of a damaged panel. Nonlinear Dynamics, 2019, 97, 1035-1050.	5.2	9
7	Two-stage filter for inertia characteristics estimation of high-speed tumbling targets. Aerospace Science and Technology, 2019, 89, 333-344.	4.8	7
8	Subharmonics and ultra-subharmonics of a bio-inspired nonlinear isolation system. International Journal of Mechanical Sciences, 2019, 152, 167-184.	6.7	39
9	Post-capture vibration suppression of spacecraft via a bio-inspired isolation system. Mechanical Systems and Signal Processing, 2018, 105, 214-240.	8.0	116
10	Robust inertia-free attitude takeover control of postcapture combined spacecraft with guaranteed prescribed performance. ISA Transactions, 2018, 74, 28-44.	5.7	55
11	Dealiasing harmonic balance method for obtaining periodic solutions of an aeroelastic system. Aerospace Science and Technology, 2018, 77, 244-255.	4.8	9
12	Learning-based adaptive prescribed performance control of postcapture space robot-target combination without inertia identifications. Acta Astronautica, 2018, 146, 228-242.	3.2	44
13	Adaptive model-free constrained control of postcapture flexible spacecraft: a Euler–Lagrange approach. JVC/Journal of Vibration and Control, 2018, 24, 4885-4903.	2.6	34
14	Robust LS-SVM-based adaptive constrained control for a class of uncertain nonlinear systems with time-varying predefined performance. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 561-587.	3.3	19
15	Accurate modeling and analysis of a bio-inspired isolation system: with application to on-orbit capture. Mechanical Systems and Signal Processing, 2018, 109, 111-133.	8.0	54
16	Event-triggered neuroadaptive control for postcapture spacecraft with ultralow-frequency actuator updates. Neurocomputing, 2018, 315, 310-321.	5.9	19
17	Analysis of internal resonance in a two-degree-of-freedom nonlinear dynamical system. Communications in Nonlinear Science and Numerical Simulation, 2017, 49, 176-191.	3.3	16
18	Globally robust explicit model predictive control of constrained systems exploiting SVM–based approximation. International Journal of Robust and Nonlinear Control, 2017, 27, 3000-3027.	3.7	18

#	ARTICLE	IF	CITATIONS
19	Estimation of inertial characteristics of tumbling spacecraft using constant state filter. Advances in Space Research, 2017, 60, 513-530.	2.6	19
20	Efficient adaptive constrained control with time-varying predefined performance for a hypersonic flight vehicle. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668750.	2.1	13
21	Feedback-Accelerated Picard Iteration for Orbit Propagation and Lambert's Problem. Journal of Guidance, Control, and Dynamics, 2017, 40, 2442-2451.	2.8	17
22	Low-complexity differentiator-based decentralized fault-tolerant control of uncertain large-scale nonlinear systems with unknown dead zone. Nonlinear Dynamics, 2017, 89, 2573-2592.	5.2	39
23	New Look at Nonlinear Aerodynamics in Analysis of Hypersonic Panel Flutter. Mathematical Problems in Engineering, 2017, 2017, 1-13.	1.1	8
24	Analysis of a Two-Dimensional Aeroelastic System Using the Differential Transform Method. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	1.2	2
25	Half-order optimally scaled Fourier expansion method for solving nonlinear dynamical system. International Journal of Non-Linear Mechanics, 2016, 87, 21-29.	2.6	2
26	A comparison of classical Runge-Kutta and Henon's methods for capturing chaos and chaotic transients in an aeroelastic system with freeplay nonlinearity. Nonlinear Dynamics, 2015, 81, 169-188.	5.2	39
27	Proper orthogonal decomposition method for analysis of nonlinear panel flutter with thermal effects in supersonic flow. Journal of Sound and Vibration, 2015, 337, 263-283.	3.9	31
28	Solutions of the von Kármán plate equations by a Galerkin method, without inverting the tangent stiffness matrix. Journal of Mechanics of Materials and Structures, 2014, 9, 195-226.	0.6	12
29	A Simple Time Domain Collocation Method to Precisely Search for the Periodic Orbits of Satellite Relative Motion. Mathematical Problems in Engineering, 2014, 2014, 1-15.	1.1	1
30	A time domain collocation method for studying the aeroelasticity of a two dimensional airfoil with a structural nonlinearity. Journal of Computational Physics, 2014, 270, 214-237.	3.8	40
31	A multiple scale time domain collocation method for solving non-linear dynamical system. International Journal of Non-Linear Mechanics, 2014, 67, 342-351.	2.6	8
32	A fast harmonic balance technique for periodic oscillations of an aeroelastic airfoil. Journal of Fluids and Structures, 2014, 50, 231-252.	3.4	17
33	Chaos and chaotic transients in an aeroelastic system. Journal of Sound and Vibration, 2014, 333, 7267-7285.	3.9	30
34	Observation and evolution of chaos for a cantilever plate in supersonic flow. Journal of Fluids and Structures, 2014, 50, 271-291.	3.4	41