Qun Zong

List of Publications by Year
in descending order

133 papers	2,587 citations	201385 27 h-index	223531 46 g-index
133 all docs	133 docs citations	133 times ranked	1573 citing authors

#	Article	IF	Citations
1	Multivariable Finite Time Attitude Control for Quadrotor UAV: Theory and Experimentation. IEEE Transactions on Industrial Electronics, 2018, 65, 2567-2577.	5.2	213
2	Robust adaptive dynamic surface control design for a flexible air-breathing hypersonic vehicle with input constraints and uncertainty. Nonlinear Dynamics, 2014, 78, 289-315.	2.7	151
3	Real-Time Trajectory and Attitude Coordination Control for Reusable Launch Vehicle in Reentry Phase. IEEE Transactions on Industrial Electronics, 2015, 62, 1639-1650.	5.2	140
4	Adaptive Finite-Time Attitude Tracking of Quadrotors With Experiments and Comparisons. IEEE Transactions on Industrial Electronics, 2019, 66, 9428-9438.	5.2	125
5	Continuous high order sliding mode controller design for a flexible air-breathing hypersonic vehicle. ISA Transactions, 2014, 53, 690-698.	3.1	107
6	Neural network disturbance observer-based distributed finite-time formation tracking control for multiple unmanned helicopters. ISA Transactions, 2018, 73, 208-226.	3.1	98
7	Adaptive high‐order dynamic sliding mode control for a flexible air‐breathing hypersonic vehicle. International Journal of Robust and Nonlinear Control, 2013, 23, 1718-1736.	2.1	84
8	Finite-time sliding mode attitude control for rigid spacecraft without angular velocity measurement. Journal of the Franklin Institute, 2017, 354, 4656-4674.	1.9	74
9	Multivariable finite‐time output feedback trajectory tracking control of quadrotor helicopters. International Journal of Robust and Nonlinear Control, 2018, 28, 281-295.	2.1	72
10	Decentralized finite-time attitude synchronization for multiple rigid spacecraft via a novel disturbance observer. ISA Transactions, 2016, 65, 150-163.	3.1	66
11	Disturbance Observer-Based Finite-Time Control Design for a Quadrotor UAV With External Disturbance. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 834-847.	2.6	66
12	Integrated guidance and control for reusable launch vehicle in reentry phase. Nonlinear Dynamics, 2015, 80, 397-412.	2.7	53
13	Adaptive disturbance observer‐based finite‐time continuous fault‐tolerant control for reentry RLV. International Journal of Robust and Nonlinear Control, 2017, 27, 4275-4295.	2.1	50
14	Fuzzy Disturbance Observer-Based Adaptive Sliding Mode Control for Reusable Launch Vehicles With Aeroservoelastic Characteristic. IEEE Transactions on Industrial Informatics, 2020, 16, 1214-1223.	7.2	44
15	Output-Redefinition-Based Dynamic Inversion Control for a Nonminimum Phase Hypersonic Vehicle. IEEE Transactions on Industrial Electronics, 2018, 65, 3447-3457.	5.2	43
16	Attitude Control of UAVs Based on Event-Triggered Supertwisting Algorithm. IEEE Transactions on Industrial Informatics, 2021, 17, 1029-1038.	7.2	42
17	Attitude control of reusable launch vehicle in reentry phase with input constraint via robust adaptive backstepping control. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1308-1327.	2.3	37
18	Robust adaptive backstepping control for an uncertain nonlinear system with input constraint based on Lyapunov redesign. International Journal of Control, Automation and Systems, 2017, 15, 212-225.	1.6	37

#	Article	IF	Citations
19	Adaptive-gain multivariable super-twisting sliding mode control for reentry RLV with torque perturbation. International Journal of Robust and Nonlinear Control, 2017, 27, 620-638.	2.1	37
20	Comprehensive design of disturbance observer and nonâ€singular terminal sliding mode control for reusable launch vehicles. IET Control Theory and Applications, 2015, 9, 1821-1830.	1.2	36
21	Finiteâ€time fully distributed formation reconfiguration control for UAV helicopters. International Journal of Robust and Nonlinear Control, 2018, 28, 5943-5961.	2.1	34
22	Control-oriented modeling and adaptive backstepping control for a nonminimum phase hypersonic vehicle. ISA Transactions, 2017, 70, 161-172.	3.1	31
23	Robust adaptive critic control design with network-based event-triggered formulation. Nonlinear Dynamics, 2017, 90, 2023-2035.	2.7	31
24	Tracking control of an underactuated ship by modified dynamic inversion. ISA Transactions, 2018, 83, 100-106.	3.1	31
25	Integrated Fault Estimation and Fault-Tolerant Tracking Control for Lipschitz Nonlinear Multiagent Systems. IEEE Transactions on Cybernetics, 2020, 50, 678-688.	6.2	30
26	Fuzzy disturbance observerâ€based dynamic surface control for airâ€breathing hypersonic vehicle with variable geometry inlets. IET Control Theory and Applications, 2018, 12, 10-19.	1.2	29
27	Flight control for a flexible air-breathing hypersonic vehicle based on quasi-continuous high-order sliding mode. Journal of Systems Engineering and Electronics, 2013, 24, 288-295.	1.1	28
28	Multivariable uniform finite-time output feedback reentry attitude control for RLV with mismatched disturbance. Journal of the Franklin Institute, 2018, 355, 3470-3487.	1.9	28
29	Disturbance observer based robust backstepping control design of flexible airâ€breathing hypersonic vehicle. IET Control Theory and Applications, 2019, 13, 572-583.	1.2	27
30	Super twisting sliding mode control for a flexible air-breathing hypersonic vehicle based on disturbance observer. Science China Information Sciences, 2015, 58, 1-15.	2.7	26
31	Game of Drones: Multi-UAV Pursuit-Evasion Game With Online Motion Planning by Deep Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7900-7909.	7.2	25
32	Adaptive finite-time reconfiguration control of unmanned aerial vehicles with a moving leader. Nonlinear Dynamics, 2019, 95, 1099-1116.	2.7	24
33	Sliding Mode Observer-Based Fault Detection of Distributed Networked Control Systems with Time Delay. Circuits, Systems, and Signal Processing, 2012, 31, 203-222.	1.2	22
34	Robust Adaptive Approximate Backstepping Control Design for a Flexible Air-Breathing Hypersonic Vehicle. Journal of Aerospace Engineering, 2015, 28, .	0.8	22
35	Disturbance observer-based sliding mode backstepping control for a re-entry vehicle with input constraint and external disturbance. Transactions of the Institute of Measurement and Control, 2016, 38, 165-181.	1.1	22
36	A Continuous Finite-Time Output Feedback Control Scheme and Its Application in Quadrotor UAVs. IEEE Access, 2018, 6, 19807-19813.	2.6	22

#	Article	IF	Citations
37	Comprehensive design of uniform robust exact disturbance observer and fixed‐time controller for reusable launch vehicles. IET Control Theory and Applications, 2018, 12, 638-648.	1.2	22
38	Finite‐time fault‐tolerant formation control for multiquadrotor systems with actuator fault. International Journal of Robust and Nonlinear Control, 2018, 28, 5386-5405.	2.1	21
39	Robust tracking control of quadrotor via on‐policy adaptive dynamic programming. International Journal of Robust and Nonlinear Control, 2021, 31, 2509-2525.	2.1	21
40	Disturbance observer–based dynamic surface control design for a hypersonic vehicle with input constraints and uncertainty. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 522-536.	0.7	18
41	Distributed finite‐time formation control for multiple quadrotors via local communications. International Journal of Robust and Nonlinear Control, 2019, 29, 5588-5608.	2.1	18
42	Robust adaptive constrained backstepping flight controller design for re-entry reusable launch vehicle under input constraint. Advances in Mechanical Engineering, 2015, 7, 168781401560630.	0.8	15
43	Reentry attitude control for a reusable launch vehicle with aeroservoelastic model using type‐2 adaptive fuzzy sliding mode control. International Journal of Robust and Nonlinear Control, 2018, 28, 5858-5875.	2.1	15
44	Anti-Windup Robust Backstepping Control for an Underactuated Reusable Launch Vehicle. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1492-1502.	5.9	15
45	Approximate output regulation of non-minimum phase hypersonic flight vehicle. Nonlinear Dynamics, 2018, 91, 2715-2724.	2.7	14
46	Continuous robust fault‐tolerant control and vibration suppression for flexible spacecraft without angular velocity. International Journal of Robust and Nonlinear Control, 2019, 29, 3915-3935.	2.1	14
47	Disturbance Observer-Based Active Vibration Suppression and Attitude Control for Flexible Spacecraft. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 893-901.	5.9	14
48	Integrated Finite-Time Disturbance Observer and Controller Design for Reusable Launch Vehicle in Reentry Phase. Journal of Aerospace Engineering, 2017, 30, .	0.8	13
49	Adaptive neural network command filtered backstepping control of pure‐feedback systems in presence of full state constraints. International Journal of Adaptive Control and Signal Processing, 2019, 33, 829-842.	2.3	13
50	Adaptive Backstepping Sliding Mode Control of Uncertain Semi-Strict Nonlinear Systems and Application to Permanent Magnet Synchronous Motor. Journal of Systems Science and Complexity, 2021, 34, 552-571.	1.6	13
51	Multivariable supertwisting fixed‐time approach for RLV re‐entry attitude control. International Journal of Robust and Nonlinear Control, 2019, 29, 973-989.	2.1	12
52	Finite-Time Dynamic Allocation and Control in Multiagent Coordination for Target Tracking. IEEE Transactions on Cybernetics, 2022, 52, 1872-1880.	6.2	12
53	Composite Practically Fixed Time Controller Design for a Hypersonic Vehicle With Multisource Uncertainty and Actuator Fault. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 4375-4389.	2.6	12
54	Finite-Time Fault Estimation and Fault-Tolerant Control for Rigid Spacecraft. Journal of Aerospace Engineering, 2018, 31, .	0.8	11

#	Article	IF	Citations
55	Finite-Time Distributed Attitude Synchronization for Multiple Spacecraft With Angular Velocity and Input Constraints. IEEE Transactions on Control Systems Technology, 2022, 30, 1612-1624.	3.2	11
56	Finite-time output feedback attitude synchronization for multiple spacecraft. Transactions of the Institute of Measurement and Control, 2018, 40, 3023-3039.	1.1	10
57	Real-Time Perception-Limited Motion Planning Using Sampling-Based MPC. IEEE Transactions on Industrial Electronics, 2022, 69, 13182-13191.	5.2	10
58	Energy-saving scheduling strategy for elevator group control system based on ant colony optimization. , 2010, , .		9
59	Input-to-state-stability modular command filtered back-stepping attitude control of a generic reentry vehicle. International Journal of Control, Automation and Systems, 2013, 11, 734-741.	1.6	9
60	Command filtered back-stepping control of a flexible air-breathing hypersonic flight vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 1617-1626.	0.7	9
61	Nonsingular terminal sliding mode control for reusable launch vehicle with atmospheric disturbances. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2019-2033.	0.7	9
62	Disturbance observer-based fault-tolerant attitude tracking control for rigid spacecraft with finite-time convergence. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 616-628.	0.7	9
63	Aeroservoelastic modeling and analysis of a six-DOF hypersonic flight vehicle. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1240-1251.	0.7	8
64	Trajectory Optimization and Finite-Time Control for Unmanned Helicopters Formation. IEEE Access, 2019, 7, 93023-93034.	2.6	8
65	Adaptive tracking and command shaped vibration control of flexible spacecraft. IET Control Theory and Applications, 2019, 13, 1121-1128.	1.2	8
66	Distributed Pursuit of an Evader With Collision and Obstacle Avoidance. IEEE Transactions on Cybernetics, 2022, 52, 13512-13520.	6.2	8
67	Adaptive Multivariable Reentry Attitude Control of RLV With Prescribed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6674-6678.	5.9	8
68	Adaptive Finite-Time Control for a Flexible Hypersonic Vehicle with Actuator Fault. Mathematical Problems in Engineering, 2013, 2013, 1-10.	0.6	7
69	Adaptive High Order Sliding Mode Controller Design for Hypersonic Vehicle with Flexible Body Dynamics. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	7
70	Adaptive active fault-tolerant control of generic hypersonic flight vehicles. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 130-138.	0.7	7
71	A New Convolutional Neural Network for Motor Imagery Classification. , 2019, , .		7
72	UAV Autonomous Trajectory Planning in Target Tracking Tasks via a DQN Approach. , 2019, , .		7

#	Article	IF	Citations
73	Parameters selection for SVR based on PSO. , 2006, , .		6
74	Adaptive Prescribed Performance Fault Tolerant Control for a Flexible Air-Breathing Hypersonic Vehicle With Uncertainty. IEEE Access, 2019, 7, 35018-35033.	2.6	6
75	Reentry Attitude Control for RLV Based on Adaptive Event-Triggered Sliding Mode. IEEE Access, 2019, 7, 68429-68435.	2.6	6
76	Adaptive multivariable finite‐time continuous fault‐tolerant control of rigid spacecraft. International Journal of Robust and Nonlinear Control, 2019, 29, 2927-2940.	2.1	6
77	Novel smooth sliding mode attitude control design for constrained re-entry vehicle based on disturbance observer. International Journal of Systems Science, 2019, 50, 75-90.	3.7	6
78	Attitude control design for reusable launch vehicles using adaptive fuzzy control with compensation controller. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 823-836.	0.7	6
79	Nash network formation among unmanned aerial vehicles. Wireless Networks, 2020, 26, 1781-1793.	2.0	6
80	Event-triggered-based adaptive super-twisting attitude tracking for RLV in reentry phase. Journal of the Franklin Institute, 2020, 357, 13430-13448.	1.9	6
81	A Continuous Multivariable Finite-Time Control Scheme for Double Integrator Systems With Bounded Control Input. IEEE Transactions on Automatic Control, 2022, 67, 6068-6073.	3.6	6
82	Elevator group scheduling for peak flows based on Adjustable Robust Optimization model. , 2011, , .		5
83	Nonlinear Constrained Adaptive Backstepping Tracking Control for a Hypersonic Vehicle with Uncertainty. Mathematical Problems in Engineering, 2015, 2015, 1-16.	0.6	5
84	Fixed-time re-entry attitude control based on nonsingular terminal sliding mode. IMA Journal of Mathematical Control and Information, 2018, 35, 1043-1059.	1.1	5
85	Decentralized Adaptive Event-triggered Control for Nonlinear Interconnected Systems in Strict-feedback Form. International Journal of Control, Automation and Systems, 2020, 18, 980-990.	1.6	5
86	Flight With Limited Field of View: A Parallel and Gradient-Free Strategy for Micro Aerial Vehicle. IEEE Transactions on Industrial Electronics, 2022, 69, 9258-9267.	5.2	5
87	Finite‐time attitude tracking control and vibration suppression for flexible spacecraft. International Journal of Robust and Nonlinear Control, 2021, 31, 2674-2689.	2.1	5
88	Event-Based Robust Optimal Consensus Control for Nonlinear Multiagent System With Local Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1073-1086.	7.2	5
89	Ascent Phase Trajectory Optimization for Vehicle with Restricted Space. Transactions of the Japan Society for Aeronautical and Space Sciences, 2011, 54, 37-43.	0.4	4
90	3DOF ascent phase trajectory optimization for aircraft based on adaptive Gauss Pseudospectral Method. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
91	Loosely-coupled lidar-inertial odometry and mapping in real time. International Journal of Intelligent Robotics and Applications, 2021, 5, 119-129.	1.6	4
92	Fault diagnosis of distributed networked control systems. , 2007, , .		3
93	Iterative identification and control design with optimal excitation signals based on Ï…-gap. Science in China Series F: Information Sciences, 2009, 52, 1120-1128.	1.1	3
94	A mixed robust optimization and multi-agent coordination method for elevator group control scheduling. , 2010, , .		3
95	Integral hierarchical SMC of uncertain interconnected systems. , 2010, , .		3
96	Flight control for hypersonic vehicle based on quasi-continuous integral high-order sliding mode. , 2012, , .		3
97	Modeling and Analysis of an Air-Breathing Flexible Hypersonic Vehicle. Mathematical Problems in Engineering, 2014, 2014, 1-9.	0.6	3
98	ISPS-modular command-filtered adaptive back-stepping control of non-linearly parameterized pure-feedback systems. Transactions of the Institute of Measurement and Control, 2016, 38, 232-239.	1.1	3
99	Dynamic surface tracking controller design for a constrained hypersonic vehicle based on disturbance observer. International Journal of Advanced Robotic Systems, 2017, 14, 172988141770377.	1.3	3
100	Stochastic communication logic for networked control systems. , 2008, , .		2
101	Self-adaptive multi-objective optimization method design based on agent reinforcement learning for elevator group control systems. , 2010, , .		2
102	Immersion and invariance based nonlinear adaptive control of hypersonic vehicles. , 2012, , .		2
103	Bayesian Coalitional Game in Physical Layer Security. Wireless Personal Communications, 2015, 85, 1237-1250.	1.8	2
104	Finite-time attitude tracking control design for reusable launch vehicle in reentry phase based on disturbance observer. Advances in Mechanical Engineering, 2017, 9, 168781401774407.	0.8	2
105	Network Formation Game for Routing in Unmanned Aerial Vehicle Networks. , 2018, , .		2
106	Continuous Multivariable Integral Sliding Mode Control of Rigid Spacecraft with Actuator Faults. , 2018, , .		2
107	A Parallel Mapping and Planning Strategy for Micro Aerial Vehicle. Research on World Agricultural Economy, 2022, 02, .	0.8	2
108	Composite Design of Disturbance Observer and Reentry Attitude Controller: An Enhanced Finite-time Technique for Aeroservoelastic Reusable Launch Vehicles. International Journal of Control, Automation and Systems, 2022, 20, 2459-2473.	1.6	2

#	Article	IF	Citations
109	Integral sliding mode control for a class of nonlinear mismatched uncertain systems. , 2008, , .		1
110	Fault diagnosis of distributed networked control systems with stochastic communication logic. , 2008, , .		1
111	Excitation signal design for closed-loop system identification. , 2009, , .		1
112	Higher order adaptive sliding mode control for a class of SISO systems. , 2009, , .		1
113	Hypersonic Vehicle control based on integral sliding mode method. , 2012, , .		1
114	Robust adaptive attitude control of reentry vehicle with input constraint and uncertainty. , 2015, , .		1
115	Disturbance observer based finite time control design for reusable launch vehicle in re-entry phase. , 2016, , .		1
116	Observer-based super twisting sliding mode control for fixed wing unmanned aerial vehicle. , 2017, , .		1
117	A Semi-dense Direct Visual Inertial Odometry for State Estimator. , 2019, , .		1
118	State Estimate and Control for Multi-rotors UAV: Theory and Experimentation. , 2019, , .		1
119	Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3159-3167.	5.9	1
120	PID Controller Design Based on BPNN for Helicopter Vibration Attenuation. , 2021, , .		1
121	Disturbance observer-based multivariable finite-time attitude tracking for flexible spacecraft. , 2020, , .		1
122	Minimum variance input signal design for closed-loop identification. , 2008, , .		0
123	An iterative identification and control design method based on ν-gap metric. , 2008, , .		0
124	Adaptive multi-objective optimization based on feedback design. Transactions of Tianjin University, 2010, 16, 359-365.	3.3	0
125	Ascent phase trajectory optimization for aircraft based on Nonlinear Programming. , 2010, , .		0
126	A novel interactive satisfying method via goal programming with alternative tolerance for fuzzy multi-objective optimization. , 2011, , .		0

#	Article	IF	Citations
127	Sensitivity analysis based model validation for Hypersonic Vehicle model. , 2014, , .		0
128	Adaptive multivariable finite-time reentry attitude control for RLV. , 2017, , .		0
129	Distributed Adaptive Finite-Time Formation Control of Multiple UAV Helicopter System. , 2018, , .		0
130	Control for MIMO Systems with No Relative Degree: Output Redefinition versus Dynamic Extension. , 2018, , .		0
131	Real-time Virtual Simulation Platform for Multi-UVA hunting target using Deep Reinforcement Learning. , 2021, , .		0
132	Integrated Design of Fault Diagnosis and Fault Tolerant Control for Spacecraft System. , 2019, , .		0
133	An Online Calibration 2-DoF Attitude and Height State Estimator. , 2020, , .		0