

# Zongyu Zuo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109  
papers

4,804  
citations

33  
h-index

68  
g-index

119  
ext. papers

6,345  
ext. citations

4.6  
avg, IF

6.94  
L-index

#	Paper	IF	Citations
109	An Overview of Finite/Fixed-Time Control and its Application in Engineering Systems. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 1-15	7	18
108	Unmanned Aerial Vehicles: Control Methods and Future Challenges. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 1-14	7	14
107	A survey on modelling, control and challenges of stratospheric airships. <i>Control Engineering Practice</i> , <b>2022</b> , 119, 104979	3.9	7
106	Robust adaptive sliding mode tracking control for a rigid body based on Lie subgroups of SO(3). <i>Discrete and Continuous Dynamical Systems - Series S</i> , <b>2022</b> ,	2.8	
105	Adaptive Backstepping Control of Uncertain Sandwich-Like Nonlinear Systems With Deadzone Nonlinearity. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-11	7.3	0
104	Reinforcement Learning-Based Fixed-Time Trajectory Tracking Control for Uncertain Robotic Manipulators With Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	4
103	Sampled-data distributed protocol for coordinated aggregation of multi-agent systems subject to communication delays. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2021</b> , 43, 101108	4.5	1
102	Higher order sliding mode based lateral guidance and control of finless airship. <i>Aerospace Science and Technology</i> , <b>2021</b> , 113, 106670	4.9	3
101	Quasi-Synchronization Control of Multiple Electrohydraulic Actuators With Load Disturbance and Uncertain Parameters. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 2048-2058	5.5	3
100	Robust Fixed-Time Stabilization Control of Generic Linear Systems With Mismatched Disturbances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-10	7.3	11
99	Bipartite Consensus Tracking for Second-Order Multiagent Systems: A Time-Varying Function-Based Preset-Time Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 2739-2745	5.9	44
98	Detection against randomly occurring complex attacks on distributed state estimation. <i>Information Sciences</i> , <b>2021</b> , 547, 539-552	7.7	6
97	Passive vibration isolation of flexure jointed hexapod: A geometry design method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2021</b> , 235, 2496-2506 <sup>1,3</sup>		1
96	Three-dimensional time-varying sliding mode guidance law against maneuvering targets with terminal angle constraint. <i>Chinese Journal of Aeronautics</i> , <b>2021</b> , 35, 303-303	3.7	4
95	Vision-based finite-time uncooperative target tracking for UAV subject to actuator saturation. <i>Automatica</i> , <b>2021</b> , 130, 109708	5.7	9
94	Three-dimensional terminal angle constraint finite-time dual-layer guidance law with autopilot dynamics. <i>Aerospace Science and Technology</i> , <b>2021</b> , 116, 106818	4.9	4
93	Coordinated Planar Path-Following Control for Multiple Nonholonomic Wheeled Mobile Robots. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	6

92	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 1-1	3-7	3
91	Parametric adaptive control of single-rod electrohydraulic system with block-strict-feedback model. <i>Automatica</i> , <b>2020</b> , 113, 108807	5-7	22
90	Practical Fixed-Time Position Tracking Control of Permanent Magnet DC Torque Motor Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 1-1	5-5	3
89	Distributed Consensus Observer for Multiagent Systems With High-Order Integrator Dynamics. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 1771-1778	5-9	47
88	Fixed-Time Cooperative Control of Multi-Agent Systems <b>2019</b> ,		9
87	Fixed-Time Stability and Stabilization <b>2019</b> , 17-44		
86	Distributed Optimization: An Edge-Based Fixed-Time Consensus Approach <b>2019</b> , 105-125		
85	Fixed-Time Cooperative Control for Second-Order Multi-Agent Systems <b>2019</b> , 59-68		1
84	Fixed-Time Cooperative Control for First-Order Multi-Agent Systems <b>2019</b> , 45-58		1
83	Fixed-Time Cooperative Control for High-Order Multi-Agent Systems <b>2019</b> , 69-83		
82	Fixed-Time Cooperative Control for Nonholonomic Chained-Form Multi-Agent Systems <b>2019</b> , 85-104		
81	Distributed Optimization with Preserved Network Connectivity <b>2019</b> , 127-151		
80	Practical fixed-time consensus for integrator-type multi-agent systems: A time base generator approach. <i>Automatica</i> , <b>2019</b> , 105, 406-414	5-7	116
79	Fixed-time stabilization of general linear systems with input delay. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 4467-4477	4	17
78	Control strategy for fixed-time leader-follower consensus for multi-agent systems with chained-form dynamics. <i>Nonlinear Dynamics</i> , <b>2019</b> , 96, 2693-2705	5	16
77	Distributed Optimization of Multiagent Systems With Preserved Network Connectivity. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 3980-3990	10.2	24
76	Adaptive Backstepping Control of Uncertain Gear Transmission Servosystems With Asymmetric Dead-Zone Nonlinearity. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 3752-3762	8.9	22
75	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 1483-1497	3-7	23

74	Adaptive Finite-Time Attitude Tracking of Quadrotors With Experiments and Comparisons. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9428-9438	8.9	76
73	An Explicit Estimate for the Upper Bound of the Settling Time in Fixed-Time Leader-Following Consensus of High-Order Multivariable Multiagent Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 6250-6259	8.9	31
72	Robust three-dimensional path-following control for an under-actuated stratospheric airship. <i>Advances in Space Research</i> , <b>2019</b> , 63, 526-538	2.4	4
71	Fixed-Time Formation Control of Multirobot Systems: Design and Experiments. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 6292-6301	8.9	63
70	Robust L2 disturbance attenuation for a class of uncertain Lipschitz nonlinear systems with input delay. <i>International Journal of Control</i> , <b>2019</b> , 92, 1015-1021	1.5	1
69	Predictor-Based Extended-State-Observer Design for Consensus of MASs With Delays and Disturbances. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1259-1269	10.2	65
68	Distributed Optimization for Multiagent Systems: An Edge-Based Fixed-Time Consensus Approach. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 122-132	10.2	108
67	Fixed-Time Leader-Follower Output Feedback Consensus for Second-Order Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1545-1550	10.2	148
66	Online Power Scheduling for Distributed Filtering Over an Energy-Limited Sensor Network. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 4216-4226	8.9	16
65	An Overview of Recent Advances in Fixed-Time Cooperative Control of Multiagent Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 2322-2334	11.9	287
64	Multivariable uniform finite-time output feedback reentry attitude control for RLV with mismatched disturbance. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 3470-3487	4	20
63	Collective Behaviors of Mobile Robots Beyond the Nearest Neighbor Rules With Switching Topology. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 1577-1590	10.2	115
62	Multivariable finite-time output feedback trajectory tracking control of quadrotor helicopters. <i>International Journal of Robust and Nonlinear Control</i> , <b>2018</b> , 28, 281-295	3.6	53
61	Fixed-Time Consensus Tracking for Multiagent Systems With High-Order Integrator Dynamics. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 563-570	5.9	286
60	Adaptive fault tolerant control for trajectory tracking of a quadrotor helicopter. <i>Transactions of the Institute of Measurement and Control</i> , <b>2018</b> , 40, 3560-3569	1.8	11
59	Distributed Fixed-Time Coordinated Tracking for Nonlinear Multi-Agent Systems Under Directed Graphs. <i>Asian Journal of Control</i> , <b>2018</b> , 20, 646-658	1.7	23
58	Nonlinear robust control of tail-sitter aircrafts in flight mode transitions. <i>Aerospace Science and Technology</i> , <b>2018</b> , 81, 348-361	4.9	22
57	Multivariable Finite Time Attitude Control for Quadrotor UAV: Theory and Experimentation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 2567-2577	8.9	139

56	. <i>IEEE Access</i> , <b>2018</b> , 6, 65909-65921	3.5	5
55	Fixed-time stabilization of high-order integrator systems with mismatched disturbances. <i>Nonlinear Dynamics</i> , <b>2018</b> , 94, 2889-2899	5	49
54	A Truncated Prediction Approach to Consensus Control of Lipschitz Nonlinear Multiagent Systems With Input Delay. <i>IEEE Transactions on Control of Network Systems</i> , <b>2017</b> , 4, 716-724	4	56
53	Backstepping control for gear transmission servo systems with unknown partially nonsymmetric deadzone nonlinearity. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2017</b> , 231, 2580-2589	1.3	2
52	Leader-follower fixed-time consensus of multi-agent systems with high-order integrator dynamics. <i>International Journal of Control</i> , <b>2017</b> , 90, 1420-1427	1.5	77
51	A fixed-time output feedback control scheme for double integrator systems. <i>Automatica</i> , <b>2017</b> , 80, 17-24	3.7	176
50	Active Debris Removal Using Double-Tethered Space-Tug System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2017</b> , 40, 722-730	2.1	31
49	Truncated Predictor Control of Lipschitz Nonlinear Systems With Time-Varying Input Delay. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5324-5330	5.9	24
48	Control scheme for LTI systems with Lipschitz non-linearity and unknown time-varying input delay. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 3191-3195	2.5	7
47	Distributed fixed-time cooperative tracking control for multi-robot systems <b>2017</b> ,		5
46	Fixed-time nonlinear consensus algorithms for multi-agent systems with input delay <b>2017</b> ,		2
45	Formation control with disturbance rejection for a class of Lipschitz nonlinear systems. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	9
44	Robust attitude control for quadrotors with input time delays. <i>Control Engineering Practice</i> , <b>2017</b> , 58, 142-149	3.9	19
43	Robust consensus control of uncertain multi-agent systems with input delay: a model reduction method. <i>International Journal of Robust and Nonlinear Control</i> , <b>2017</b> , 27, 1874-1894	3.6	32
42	Consensus disturbance rejection for Lipschitz nonlinear multi-agent systems with input delay: A DOBC approach. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 298-315	4	40
41	Robust Control for Quadrotors With Multiple Time-Varying Uncertainties and Delays. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1303-1312	8.9	92
40	$\mathcal{L}_1$ Adaptive Backstepping for Robust Trajectory Tracking of UAVs. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 2944-2954	8.9	43
39	Consensus disturbance rejection of network-connected dynamic systems with input delay and unknown network connectivity. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10357-10362	0.7	3

38	Backstepping control of sandwich-like non-linear systems with deadzone non-linearity. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 3122-3129	2.5	7
37	Almost global trajectory tracking control of quadrotors with constrained control inputs. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2016</b> , 230, 856-869	0.9	8
36	Fixed-time stabilisation and consensus of non-holonomic systems. <i>IET Control Theory and Applications</i> , <b>2016</b> , 10, 2497-2505	2.5	49
35	Approximate analysis for main rotor flapping dynamics of a model-scaled helicopter with BellBiller stabilizing bar in hovering and vertical flights. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 1705-1717	5	5
34	Distributed robust finite-time nonlinear consensus protocols for multi-agent systems. <i>International Journal of Systems Science</i> , <b>2016</b> , 47, 1366-1375	2.3	307
33	Truncated Prediction Output Feedback Control of a Class of Lipschitz Nonlinear Systems With Input Delay. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2016</b> , 63, 788-792	3.5	17
32	Control of Gear Transmission Servo Systems With Asymmetric Deadzone Nonlinearity. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1472-1479	4.8	21
31	Signed-average consensus for networks of agents: a nonlinear fixed-time convergence protocol. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 155-165	5	46
30	Leader-follower consensus control of Lipschitz nonlinear systems by output feedback. <i>International Journal of Systems Science</i> , <b>2016</b> , 47, 3772-3781	2.3	10
29	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 1-1	8.9	46
28	Three dimensional path-following control of an under-actuated airship <b>2016</b> ,		2
27	Cooperative control of distributed battery energy storage systems in Microgrids <b>2016</b> ,		4
26	Adaptive control of uncertain gear transmission servo systems with dead-zone nonlinearity <b>2016</b> ,		1
25	Attitude tracking control of a 3-DOF helicopter with input and output constraints <b>2016</b> ,		1
24	Nodes selection strategy in cooperative tracking problem. <i>Automatica</i> , <b>2016</b> , 74, 118-125	5.7	25
23	Fixed-time stabilization of second-order uncertain multivariable nonlinear systems <b>2016</b> ,		5
22	Nonsingular fixed-time consensus tracking for second-order multi-agent networks. <i>Automatica</i> , <b>2015</b> , 54, 305-309	5.7	469
21	Non-singular fixed-time terminal sliding mode control of non-linear systems. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 545-552	2.5	234

20	Backstepping Control for Gear Transmission Servo Systems With Backlash Nonlinearity. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2015</b> , 12, 752-757	4.9	33
19	Consensus Control of a Class of Lipschitz Nonlinear Systems With Input Delay. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2015</b> , 62, 2730-2738	3.9	86
18	Three-dimensional coordinated path-following control for second-order multi-agent networks. <i>Journal of the Franklin Institute</i> , <b>2015</b> , 352, 3858-3872	4	14
17	L1 adaptive control of uncertain gear transmission servo systems with deadzone nonlinearity. <i>ISA Transactions</i> , <b>2015</b> , 58, 67-75	5.5	10
16	Nonlinear adaptive trajectory tracking control for a quad-rotor with parametric uncertainty. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2015</b> , 229, 1709-1721	0.9	18
15	Chattering-free sliding mode control for MIMO nonlinear manipulator systems based on adaptive neural networks <b>2015</b> ,		1
14	Controlled Lagrangians control for a quadrotor helicopter <b>2015</b> ,		1
13	Fixed-time consensus for multi-agent systems under directed and switching interaction topology <b>2014</b> ,		18
12	Three-Dimensional Consensus Path-Following for Second-Order Multi-Agent Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 10060-10065		3
11	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2014</b> , 50, 3090-3101	3.7	74
10	A new coordinated path-following control for second-order multi-agent systems <b>2014</b> ,		1
9	Adaptive trajectory tracking control of output constrained multi-rotors systems. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 1163-1174	2.5	130
8	A new class of finite-time nonlinear consensus protocols for multi-agent systems. <i>International Journal of Control</i> , <b>2014</b> , 87, 363-370	1.5	247
7	Hyperbolic tangent function based adaptive trajectory tracking control for quadrotors <b>2013</b> ,		2
6	Adaptive trajectory tracking control design with command filtered compensation for a quadrotor. <i>JVC/Journal of Vibration and Control</i> , <b>2013</b> , 19, 94-108	2	57
5	L1 Backstepping for Robust Trajectory Tracking*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 1-6		2
4	Adaptive Trajectory Tracking of Stratospheric Airship Based on Input-output Stability Theory <b>2011</b> ,		1
3	Modeling, Stability Analysis and Simulation of a Stratosphere Hybrid Tethered Platform <b>2011</b> ,		1

2 Trajectory Tracking Control of a Quadrotor Unmanned Mini-Helicopter **2010**, 7

1 Trajectory tracking control design with command-filtered compensation for a quadrotor. *IET Control Theory and Applications*, **2010**, 4, 2343-2355 2.5 261