

# Qiang Chen

## List of Publications by Year in descending order

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83  
papers

2,216  
citations

279701

23  
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233338

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84  
all docs

84  
docs citations

84  
times ranked

1382  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Prescribed Performance Motion Control of Servo Mechanisms with Friction Compensation. IEEE Transactions on Industrial Electronics, 2014, 61, 486-494.	5.2	429
2	Adaptive Nonsingular Fixed-Time Attitude Stabilization of Uncertain Spacecraft. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2937-2950.	2.6	188
3	USDE-Based Sliding Mode Control for Servo Mechanisms With Unknown System Dynamics. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1056-1066.	3.7	118
4	Output Feedback Control of Uncertain Hydraulic Servo Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 490-500.	5.2	113
5	Echo State Network-Based Backstepping Adaptive Iterative Learning Control for Strict-Feedback Systems: An Error-Tracking Approach. IEEE Transactions on Cybernetics, 2020, 50, 3009-3022.	6.2	102
6	Adaptive robust finite-time neural control of uncertain PMSM servo system with nonlinear dead zone. Neural Computing and Applications, 2017, 28, 3725-3736.	3.2	90
7	Adaptive echo state network control for a class of pure-feedback systems with input and output constraints. Neurocomputing, 2018, 275, 1370-1382.	3.5	83
8	Neural-Network-Based Adaptive Singularity-Free Fixed-Time Attitude Tracking Control for Spacecrafts. IEEE Transactions on Cybernetics, 2021, 51, 5032-5045.	6.2	67
9	Adaptive fixed-time fault-tolerant control for rigid spacecraft using a double power reaching law. International Journal of Robust and Nonlinear Control, 2019, 29, 4022-4040.	2.1	62
10	Adaptive Repetitive Learning Control of PMSM Servo Systems with Bounded Nonparametric Uncertainties: Theory and Experiments. IEEE Transactions on Industrial Electronics, 2021, 68, 8626-8635.	5.2	62
11	Finite-Time Approximation-Free Attitude Control of Quadrotors: Theory and Experiments. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1780-1792.	2.6	54
12	Robust finite-time chaos synchronization of uncertain permanent magnet synchronous motors. ISA Transactions, 2015, 58, 262-269.	3.1	51
13	Adaptive Predefined Performance Sliding Mode Control of Motor Driving Systems With Disturbances. IEEE Transactions on Energy Conversion, 2021, 36, 1931-1939.	3.7	50
14	Adaptive Nonsingular Predefined-Time Control for Attitude Stabilization of Rigid Spacecrafts. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 189-193.	2.2	43
15	Fuzzy Adaptive Nonsingular Fixed-Time Attitude Tracking Control of Quadrotor UAVs. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2864-2877.	2.6	36
16	A modified dynamic surface approach for control of nonlinear systems with unknown input dead zone. International Journal of Robust and Nonlinear Control, 2015, 25, 1145-1167.	2.1	33
17	Adaptive Nonlinear Sliding Mode Control of Mechanical Servo System With LuGre Friction Compensation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	32
18	Modified dynamic surface approach with bias torque for multi-motor servomechanism. Control Engineering Practice, 2016, 50, 57-68.	3.2	31

#	ARTICLE	IF	CITATIONS
19	Cascade Optimal Control for Tracking and Synchronization of a Multimotor Driving System. IEEE Transactions on Control Systems Technology, 2019, 27, 1376-1384.	3.2	29
20	Robust tracking and distributed synchronization control of a multi-motor servomechanism with H-infinity performance. ISA Transactions, 2018, 72, 147-160.	3.1	28
21	Partially saturated coupled-dissipation control for underactuated overhead cranes. Mechanical Systems and Signal Processing, 2020, 136, 106449.	4.4	26
22	Finite-time tracking control for motor servo systems with unknown dead-zones. Journal of Systems Science and Complexity, 2013, 26, 940-956.	1.6	25
23	Double Hyperbolic Reaching Law With Chattering-Free and Fast Convergence. IEEE Access, 2018, 6, 27717-27725.	2.6	25
24	Disturbance-observer Based Adaptive Control for Second-order Nonlinear Systems Using Chattering-free Reaching Law. International Journal of Control, Automation and Systems, 2019, 17, 356-369.	1.6	25
25	Energy coupled dissipation control for 3-dimensional overhead cranes. Nonlinear Dynamics, 2020, 99, 2097-2107.	2.7	25
26	Neural network-based adaptive funnel sliding mode control for servo mechanisms with friction compensation. Neurocomputing, 2020, 377, 16-26.	3.5	24
27	Proportional-Integral Approximation-Free Control of Robotic Systems With Unknown Dynamics. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2226-2236.	3.7	24
28	Identifier-based adaptive neural dynamic surface control for uncertain DC-DC buck converter system with input constraint. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1871-1883.	1.7	22
29	Finite-time neural funnel control for motor servo systems with unknown input constraint. Journal of Systems Science and Complexity, 2017, 30, 579-594.	1.6	22
30	Fixed-Time Filtered Adaptive Parameter Estimation and Attitude Control for Quadrotor UAVs. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 4135-4146.	2.6	22
31	SDRE based optimal finite-time tracking control of a multi-motor driving system. International Journal of Control, 2021, 94, 2551-2563.	1.2	15
32	Full-order sliding mode control of uncertain chaos in a permanent magnet synchronous motor based on a fuzzy extended state observer. Chinese Physics B, 2015, 24, 110504.	0.7	14
33	Full-order sliding mode control for high-order nonlinear system based on extended state observer. Journal of Systems Science and Complexity, 2016, 29, 978-990.	1.6	14
34	Finite time parameter estimation-based adaptive predefined performance control for servo mechanisms. ISA Transactions, 2019, 87, 174-186.	3.1	14
35	Predefined-Time Approximation-Free Attitude Constraint Control of Rigid Spacecraft. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 347-358.	2.6	14
36	Adaptive Backstepping Control Design for Uncertain Rigid Spacecraft With Both Input and Output Constraints. IEEE Access, 2018, 6, 60776-60789.	2.6	13

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37	Neural network-based adaptive finite-time output constraint control for rigid spacecrafts. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 2983-3000.	2.1	13
38	Adaptive Fixed Time Parameter Estimation and Synchronization Control for Multiple Robotic Manipulators. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 2375-2387.	1.6	11
39	An Optimized Asymmetric Pulsewidth Modulation for Sensorless Control of Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 1389-1399.	5.2	11
40	Hybrid-Modulation-Based Full-Speed Sensorless Control for Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 5908-5917.	5.4	11
41	Finite-time command-filtered approximation-free attitude tracking control of rigid spacecraft. <i>Nonlinear Dynamics</i> , 2022, 107, 2391-2405.	2.7	11
42	Robust anti-synchronization of uncertain chaotic systems based on multiple-kernel least squares support vector machine modeling. <i>Chaos, Solitons and Fractals</i> , 2011, 44, 1080-1088.	2.5	10
43	Adaptive Finite-Time Command Filtered Fault-Tolerant Control for Uncertain Spacecraft with Prescribed Performance. <i>Complexity</i> , 2018, 2018, 1-12.	0.9	10
44	Speed Tracking and Synchronization of a Multimotor System Based on Fuzzy ADRC and Enhanced Adjacent Coupling Scheme. <i>Complexity</i> , 2018, 2018, 1-16.	0.9	10
45	Approximate optimal tracking control for continuous-time unknown nonlinear systems. , 2014, , .		9
46	Adaptive neural dynamic surface sliding mode control for uncertain nonlinear systems with unknown input saturation. <i>International Journal of Advanced Robotic Systems</i> , 2016, 13, 172988141665775.	1.3	9
47	Partially saturated coupling-based control for underactuated overhead cranes with experimental verification. <i>Mechatronics</i> , 2019, 63, 102284.	2.0	9
48	Funnel tracking control for nonlinear servo drive systems with unknown disturbances. <i>ISA Transactions</i> , 2022, 128, 328-335.	3.1	9
49	Backstepping funnel control for prescribed performance of robotic manipulators with unknown dead zone. , 2015, , .		8
50	Multiple motors synchronization based on active disturbance rejection control with improved adjacent coupling. , 2016, , .		7
51	Improved energy dissipation control of overhead cranes. <i>Asian Journal of Control</i> , 2020, 22, 1729-1735.	1.9	7
52	Predictor-based optimal robust guaranteed cost control for uncertain nonlinear systems with completely tracking errors constraint. <i>Journal of the Franklin Institute</i> , 2019, 356, 6817-6841.	1.9	6
53	Observer-based compensation control of servo systems with backlash. <i>Asian Journal of Control</i> , 2021, 23, 499-512.	1.9	6
54	Neuro-adaptive singularity-free finite-time attitude tracking control of quadrotor UAVs. <i>Computers and Electrical Engineering</i> , 2021, 96, 107485.	3.0	5

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55	Finite-Time Synergetic Control of Mechanical System Based on Model-Free Friction Compensation. Lecture Notes in Electrical Engineering, 2015, , 275-284.	0.3	4
56	Adaptive Chaos Synchronization Control of Nonlinear PMSM System Using Extended State Observer. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	3
57	Adaptive optimal integral sliding mode control for a dual-motor driving servo system. , 2017, , .		3
58	Integrated Position and Speed Control for PMSM Servo System Based on Extended State Observer. , 2019, , .		3
59	Composite chattering-free sliding mode control of chaotic permanent magnet synchronous motors. , 2015, , .		2
60	Attitude tracking control of rigid spacecraft with disturbance compensation. International Journal of Modelling, Identification and Control, 2019, 31, 62.	0.2	2
61	RBFNN-Based Singularity-Free Terminal Sliding Mode Control for Uncertain Quadrotor UAVs. Computational Intelligence and Neuroscience, 2021, 2021, 1-10.	1.1	2
62	Universal control for a class of nonlinear systems based on finite-time parametric estimation. , 2016, , .		1
63	Terminal sliding mode cascade control for tracking and synchronization of a dual-motor driving system. , 2016, , .		1
64	Composite integral terminal sliding mode based adaptive synchronization control of multiple robotic manipulators with actuator saturation. , 2017, , .		1
65	Disturbance observer based sliding mode control for rigid spacecraft with fast power reaching law. , 2017, , .		1
66	Switching-function dynamics based design of sliding mode repetitive controllers. , 2017, , .		1
67	Repetitive Learning Control for a Class of Nonlinear Systems. , 2018, , .		1
68	Adaptive Fixed-Time Sliding Mode Control for Uncertain Twin-Rotor System with Experimental Validation. Complexity, 2019, 2019, 1-11.	0.9	1
69	Adaptive Tracking Control of Flexible Joint Manipulator with Output Constraints. , 2021, , .		1
70	Adaptive SMC-based Trajectory Tracking Control of Underactuated Overhead Cranes. , 2020, , .		1
71	Discrete-time sliding mode control coupled with asynchronous sensor fusion for rigid-link flexible-joint manipulators. , 2013, , .		0
72	Adaptive tracking control of robotic manipulators with unknown input saturation using backstepping sliding mode technique. , 2016, , .		0

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73	Approximation-free control for hydraulic servo systems without using backstepping. , 2017, , .		0
74	Attracting-law-based discrete-time repetitive control. , 2017, , .		0
75	Adaptive Finite-Time Neural Control of Servo Systems With Non-linear Dead-Zone. , 2018, , 119-134.		0
76	Adaptive Neural Dynamic Surface Control for Pure-Feedback Systems With Input Saturation. , 2018, , 229-246.		0
77	Adaptive Iterative Learning Control of Nonlinear Systems with Input Saturation. , 2019, , .		0
78	Adaptive Tracking Control of Voltage-Driven Robotic Manipulators with Output Constraints. , 2019, , .		0
79	Repetitive Learning Control for Nonlinear Systems Subject to Time Delays. , 2021, , .		0
80	Iterative learning identification for a class of Wiener nonlinear time-varying systems. , 2021, , .		0
81	Discrete-Time Sliding Mode Control Coupled with Asynchronous Sensor Fusion for Rigid-Link Flexible-Joint Manipulators. Complexity, 2021, 2021, 1-12.	0.9	0
82	Adaptive Fuzzy Finite-Time Constraint Control for Attitude Tracking of Rigid Spacecrafts. Lecture Notes in Electrical Engineering, 2022, , 401-411.	0.3	0
83	Global Output Feedback Control of Strict-Feedback Nonlinear Systems with Prescribed Performance and Applications. , 2021, , .		0