

Bin Yao

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184
papers

6,347
citations

46
h-index

76
g-index

229
ext. papers

7,870
ext. citations

4.6
avg, IF

6.41
L-index

#	Paper	IF	Citations
184	Adaptive robust control of SISO nonlinear systems in a semi-strict feedback form. <i>Automatica</i> , 1997 , 33, 893-900	5.7	475
183	Adaptive robust motion control of single-rod hydraulic actuators: theory and experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2000 , 5, 79-91	5.5	407
182	Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. <i>Automatica</i> , 2001 , 37, 1305-1321	5.7	241
181	Adaptive robust precision motion control of linear motors with negligible electrical dynamics: theory and experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2001 , 6, 444-452	5.5	198
180	μ-Synthesis-Based Adaptive Robust Control of Linear Motor Driven Stages With High-Frequency Dynamics: A Case Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1482-1490	5.5	177
179	High-performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 1997 , 2, 63-76	5.5	172
178	Accurate Motion Control of Linear Motors With Adaptive Robust Compensation of Nonlinear Electromagnetic Field Effect. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1122-1129	5.5	170
177	Adaptive Robust Vibration Control of Full-Car Active Suspensions With Electrohydraulic Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2417-2422	4.8	165
176	Smooth Robust Adaptive Sliding Mode Control of Manipulators With Guaranteed Transient Performance. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1996 , 118, 764-775	1.6	146
175	Indirect Adaptive Robust Control of Hydraulic Manipulators With Accurate Parameter Estimates. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 567-575	4.8	136
174	Integrated Direct/Indirect Adaptive Robust Control of Hydraulic Manipulators With Valve Deadband. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 707-715	5.5	118
173	Adaptive robust control of linear motors with dynamic friction compensation using modified LuGre model. <i>Automatica</i> , 2009 , 45, 2890-2896	5.7	116
172	Adaptive robust posture control of a parallel manipulator driven by pneumatic muscles. <i>Automatica</i> , 2008 , 44, 2248-2257	5.7	101
171	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 247-257	5.5	95
170	Modeling of Transmission Characteristics Across a Cable-Conduit System. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 914-924	6.5	95
169	Adaptive robust motion control of linear motors for precision manufacturing. <i>Mechatronics</i> , 2002 , 12, 595-616	3	95
168	Adaptive Fuzzy Backstepping Control for Stable Nonlinear Bilateral Teleoperation Manipulators With Enhanced Transparency Performance. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 746-756	8.9	92

167	Output feedback adaptive robust precision motion control of linear motors. <i>Automatica</i> , 2001 , 37, 1029-1039	4.6	90
166	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. <i>Automatica</i> , 2001 , 37, 1149-1160	5.7	89
165	Desired Compensation Adaptive Robust Control of a Linear-Motor-Driven Precision Industrial Gantry With Improved Cogging Force Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008 , 13, 617-624	5.5	88
164	Non-linear adaptive robust control of electro-hydraulic systems driven by double-rod actuators. <i>International Journal of Control</i> , 2001 , 74, 761-775	1.5	87
163	An Orthogonal Global Task Coordinate Frame for Contouring Control of Biaxial Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 622-634	5.5	80
162	RBF-Neural-Network-Based Adaptive Robust Control for Nonlinear Bilateral Teleoperation Manipulators With Uncertainty and Time Delay. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 906-918	5.5	77
161	Coordinate Control of Energy Saving Programmable Valves. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 34-45	4.8	76
160	Adaptive Robust Precision Motion Control of Systems With Unknown Input Dead-Zones: A Case Study With Comparative Experiments. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2454-2464	8.9	74
159	Adaptive Robust Precision Motion Control of a Piezoelectric Positioning Stage. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 1039-1046	4.8	71
158	Coordinated Adaptive Robust Contouring Control of an Industrial Biaxial Precision Gantry With Cogging Force Compensations. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1746-1754	8.9	70
157	Adaptive Robust Posture Control of Parallel Manipulator Driven by Pneumatic Muscles With Redundancy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008 , 13, 441-450	5.5	70
156	Adaptive Robust Precision Motion Control of a High-Speed Industrial Gantry With Cogging Force Compensations. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1149-1159	4.8	69
155	Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. <i>Chinese Journal of Aeronautics</i> , 2012 , 25, 766-775	3.7	68
154	High performance adaptive robust control of nonlinear systems: a general framework and new schemes		66
153	Global Task Coordinate Frame-Based Contouring Control of Linear-Motor-Driven Biaxial Systems With Accurate Parameter Estimations. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 5195-5205	8.9	63
152	Coordinated Adaptive Robust Contouring Controller Design for an Industrial Biaxial Precision Gantry. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 728-735	5.5	63
151	Performance-Oriented Adaptive Robust Control of a Class of Nonlinear Systems Preceded by Unknown Dead Zone With Comparative Experimental Results. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 178-189	5.5	62
150	Adaptive Robust Precision Motion Control of Linear Motors With Integrated Compensation of Nonlinearities and Bearing Flexible Modes. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 965-973	11.9	62

149	A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. <i>Automatica</i> , 2007 , 43, 1840-1848	5.7	60
148	Integrated Coordinated/Synchronized Contouring Control of a Dual-Linear-Motor-Driven Gantry. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3944-3954	8.9	57
147	Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. <i>Chinese Journal of Aeronautics</i> , 2012 , 25, 954-962	3.7	56
146	A Globally Stable High-Performance Adaptive Robust Control Algorithm With Input Saturation for Precision Motion Control of Linear Motor Drive Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2007 , 12, 198-207	5.5	56
145	Advanced Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7526-7535	8.9	55
144	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 7046-7054	8.9	55
143	Development of Pump and Valves Combined Hydraulic System for Both High Tracking Precision and High Energy Efficiency. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7189-7198	8.9	52
142	A Two-Loop Performance-Oriented Tip-Tracking Control of a Linear-Motor-Driven Flexible Beam System With Experiments. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1011-1022	8.9	51
141	Teleoperation of a Mobile Robot Using a Force-Reflection Joystick With Sensing Mechanism of Rotating Magnetic Field. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 17-26	5.5	50
140	Adaptive Robust Repetitive Control of an Industrial Biaxial Precision Gantry for Contouring Tasks. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1559-1568	4.8	50
139	Integrated direct/indirect adaptive robust contouring control of a biaxial gantry with accurate parameter estimations. <i>Automatica</i> , 2010 , 46, 701-707	5.7	49
138	Control of cable actuated devices using smooth backlash inverse 2010 ,		46
137	Desired Compensation Adaptive Robust Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131,	1.6	46
136	Adaptive Robust Cascade Force Control of 1-DOF Hydraulic Exoskeleton for Human Performance Augmentation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 589-600	5.5	43
135	Global stabilization of a chain of integrators with input saturation and disturbances: A new approach. <i>Automatica</i> , 2012 , 48, 1389-1396	5.7	42
134	Integrated Direct/Indirect Adaptive Robust Posture Trajectory Tracking Control of a Parallel Manipulator Driven by Pneumatic Muscles. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 576-588	4.8	42
133	Nonlinear adaptive robust backstepping force control of hydraulic load simulator: Theory and experiments. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 1499-1507	1.6	39
132	Variable structure adaptive motion and force control of robot manipulators. <i>Automatica</i> , 1994 , 30, 1473-1477	5.477	38

131	2010,		37
130	Precision Motion Control of a Servomotor-Pump Direct-Drive Electrohydraulic System With a Nonlinear Pump Flow Mapping. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8638-8648	8.9	33
129	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 1032-1039	5.5	32
128	Adaptive Control of Robot Manipulators in Constrained Motion Controller Design. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1995 , 117, 320-328	1.6	32
127	Model-Based Coordinated Control of Four-Wheel Independently Driven Skid Steer Mobile Robot with Wheel-Ground Interaction and Wheel Dynamics. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1742-1752	11.9	31
126	Multirate adaptive robust control for discrete-time non-minimum phase systems and application to linear motors. <i>IEEE/ASME Transactions on Mechatronics</i> , 2005 , 10, 371-377	5.5	30
125	Development of a Passive Compliant Mechanism for Measurement of Micro/Nanoscale Planar 3-DOF Motions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1222-1232	5.5	29
124	Advanced Valves and Pump Coordinated Hydraulic Control Design to Simultaneously Achieve High Accuracy and High Efficiency. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 236-248	4.8	29
123	Adaptive Robust Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics and Accurate Online Parameter Estimation. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3013-3022	11.9	27
122	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 371-376	5.9	27
121	Performance-Oriented Coordinated Adaptive Robust Control for Four-Wheel Independently Driven Skid Steer Mobile Robot. <i>IEEE Access</i> , 2017 , 5, 19048-19057	3.5	26
120	Observer-based adaptive robust control of a class of nonlinear systems with dynamic uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 335-356	3.6	26
119	Automated onboard modeling of cartridge valve flow mapping. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006 , 11, 381-388	5.5	25
118	Fast and Accurate Motion Tracking of a Linear Motor System Under Kinematic and Dynamic Constraints: An Integrated Planning and Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 804-811	4.8	25
117	Energy Saving Motion Control of Independent Metering Valves and Pump Combined Hydraulic System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1909-1920	5.5	22
116	Modeling of a closed loop cable-conduit transmission system 2008 ,		22
115	Output feedback based adaptive robust fault-tolerant control for a class of uncertain nonlinear systems. <i>Journal of Systems Engineering and Electronics</i> , 2011 , 22, 38-51	1.3	19
114	Adaptive Robust Motion and Force Tracking Control of Robot Manipulators in Contact With Compliant Surfaces With Unknown Stiffness. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1998 , 120, 232-240	1.6	19

113	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1821-1829	5.5	18
112	Non-linear sliding mode control of the lower extremity exoskeleton based on human-robot cooperation. <i>International Journal of Advanced Robotic Systems</i> , 2016 , 13, 172988141666278	1.4	18
111	Adaptive robust torque control of electric load simulator with strong position coupling disturbance. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 325-332	2.9	18
110	An adaptive robust observer for velocity estimation in an electro-hydraulic system. <i>International Journal of Adaptive Control and Signal Processing</i> , 2012 , 26, 1076-1089	2.8	18
109	An Improved Online Trajectory Planner With Stability-Guaranteed Critical Test Curve Algorithm for Generalized Parametric Constraints. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2459-2469	5.5	17
108	Output Feedback Adaptive Robust Control of Uncertain Linear Systems With Disturbances. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 938	1.6	17
107	Accommodation of unknown actuator faults using output feedback-based adaptive robust control. <i>International Journal of Adaptive Control and Signal Processing</i> , 2011 , 25, 965-982	2.8	16
106	Modeling and cancellation of pivot nonlinearity in hard disk drives. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3560-3565	2	16
105	Accurate Motion Control of a Direct-drive Hydraulic System with an Adaptive Nonlinear Pump Flow Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	16
104	Adaptive robust contour tracking of machine tool feed drive systems-a task coordinate frame approach 1997 ,		15
103	Integrated direct/indirect adaptive robust control of SISO nonlinear systems in semi-strict feedback form		15
102	Neural network adaptive robust control with application to precision motion control of linear motors. <i>International Journal of Adaptive Control and Signal Processing</i> , 2001 , 15, 837-864	2.8	15
101	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2940-2951	5.5	15
100	Model based fault detection of an electro-hydraulic cylinder		14
99	Decoupled Torque Control of Series Elastic Actuator With Adaptive Robust Compensation of Time-Varying Load-Side Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5604-5614	8.9	14
98	A performance oriented multi-loop constrained adaptive robust tracking control of one-degree-of-freedom mechanical systems: Theory and experiments. <i>Automatica</i> , 2014 , 50, 1143-1150	5.7	13
97	High-performance adaptive robust control with balanced torque allocation for the over-actuated cutter-head driving system in tunnel boring machine. <i>Mechatronics</i> , 2017 , 46, 168-176	3	13
96	Experimental investigation on high-performance coordinated motion control of high-speed biaxial systems for contouring tasks. <i>International Journal of Machine Tools and Manufacture</i> , 2011 , 51, 677-686	9.4	13

95	Precision Cascade Force Control of Multi-DOF Hydraulic Leg Exoskeleton. <i>IEEE Access</i> , 2018 , 6, 8574-8583	3.5	12
94	Adaptive robust control of nonlinear systems with dynamic uncertainties. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009 , 23, 353-377	2.8	12
93	Reaction force estimation of surgical robot instrument using perturbation observer with SMCSPPO algorithm 2010 ,		11
92	Global stabilization of a class of uncertain systems with saturated adaptive robust control		11
91	Optimization-based motion planning of mobile manipulator with high degree of kinematic redundancy. <i>International Journal of Intelligent Robotics and Applications</i> , 2019 , 3, 115-130	1.7	10
90	Nonlinear adaptive robust observer design for a class of nonlinear systems		10
89	Adaptive robust synchronous control with dynamic thrust allocation of dual drive gantry stage 2014 ,		9
88	A General Online Trajectory Planning Framework in the Case of Desired Function Unknown in Advance. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2753-2762	11.9	9
87	Identification and adaptive robust precision motion control of systems with nonlinear friction. <i>Nonlinear Dynamics</i> , 2019 , 95, 995-1007	5	9
86	A two-loop contour tracking control for biaxial servo systems with constraints and uncertainties 2013 ,		8
85	Modeling and Simulation of a Modern PEM Fuel Cell System 2006 , 133		8
84	Output Feedback Neural Network Adaptive Robust Control With Application to Linear Motor Drive System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 227	1.6	8
83	Exponential Stabilization of Fully Actuated Planar Bipedal Robotic Walking With Global Position Tracking Capabilities. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	7
82	Modular Development of Master-Slave Asymmetric Teleoperation Systems With a Novel Workspace Mapping Algorithm. <i>IEEE Access</i> , 2018 , 6, 15356-15364	3.5	7
81	Adaptive robust control for nonlinear system with input backlash or backlash-like hysteresis 2009 ,		7
80	Adaptive thrust allocation based synchronization control of a dual drive gantry stage. <i>Mechatronics</i> , 2018 , 54, 68-77	3	6
79	Feasible Center of Mass Dynamic Manipulability of humanoid robots 2015 ,		6
78	Dual drive system modeling and analysis for synchronous control of an H-type gantry 2015 ,		6

77	Adaptive Robust Posture Control of a Pneumatic Muscles Driven Parallel Manipulator with Redundancy. <i>Proceedings of the American Control Conference, 2007,</i>	1.2	6
76	Energy-saving adaptive robust motion control of single-rod hydraulic cylinders with programmable valves 2002,		6
75	Neural network-based adaptive robust control of a class of nonlinear systems in normal form 2000,		6
74	Adaptive robust wing trajectory control and force generation of flapping wing MAV 2015,		5
73	Adaptive Robust Control of a Pump Control Hydraulic System 2017,		5
72	Observer-based adaptive robust control of friction stir welding axial force 2010,		5
71	Adaptive robust control of linear electrical loading system with dynamic friction compensation 2010,		5
70	High performance adaptive robust control for nonlinear system with unknown input backlash 2009,		5
69	Adaptive robust actuator fault-tolerant control in presence of input saturation 2011,		5
68	Dual loop control of cable-conduit actuated devices 2012,		5
67	Adaptive Robust Synchronous Motion Control of Dual Parallel Linear Motor Driven Stage 2012,		5
66	Adaptive robust control of linear motor systems with dynamic friction compensation using modified LuGre Model 2008,		5
65	An Adaptive Robust Scheme for Multiple Actuator Fault Accommodation 2008,		5
64	Coordinate Control of Energy-Saving Programmable Valves 2003, 123		5
63	Multi-Objective Optimization of Tip Tracking Control Using LMI 2005, 1533		5
62	Nonlinear adaptive robust control of electro-hydraulic servo systems with discontinuous projections		5
61	Analysis and compensation of nonlinear friction effect on frequency identification 2015,		4
60	Adaptive robust precision motion control of high-speed linear motors with on-line cogging force compensations 2007,		4

59	Energy-saving control of hydraulic systems with novel programmable valves		4
58	Smooth robust adaptive sliding mode control of manipulators with guaranteed transient performance		4
57	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1905-1913	5.5	4
56	Modeling and nonlinear computed torque control of ship-mounted mobile satellite communication system. <i>International Journal of Automation and Computing</i> , 2012 , 9, 459-466	3.5	3
55	Adaptive Robust Control for a Class of Nonlinear Uncertain System With Unknown Input Backlash 2009 ,		3
54	Integrated direct/indirect adaptive robust control of a class of nonlinear systems preceded by unknown dead-zone nonlinearity 2009 ,		3
53	Characterization and Attenuation of Sandwiched Deadband Problem Using Describing Function Analysis and Application to Electrohydraulic Systems Controlled by Closed-Center Valves. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131,	1.6	3
52	Globally stable fast tracking control of a chain of integrators with input saturation and disturbances: A holistic approach 2011 ,		3
51	Global stabilization of a chain of integrators with input saturation and disturbances 2011 ,		3
50	On-Board System Identification of Systems With Unknown Input Nonlinearity and System Parameters 2005 , 1079		3
49	Robust Model-Based Fault Detection Using Adaptive Robust Observers		3
48	Adaptive robust precision motion control of linear motors with ripple force compensations: theory and experiments		3
47	1998 ,		3
46	Vsc motion and force control of robot manipulators in the presence of environmental constraint uncertainties. <i>Journal of Field Robotics</i> , 1994 , 11, 503-515		3
45	Development of parallel-connected pump/valve-coordinated control unit with improved performance and efficiency. <i>Mechatronics</i> , 2020 , 70, 102419	3	3
44	Desired compensation neural network adaptive robust control of an industrial linear motor motion system with comparative experimental investigation 2016 ,		3
43	Adaptive Robust Control of a 7-DoFs Teleoperation Robot System With Payload Variations and Disturbances 2018 ,		3
42	Adaptive robust control of skid steer mobile robot with independent driving torque allocation 2017 ,		2

41	Contouring control of biaxial systems based on a new task coordinate frame 2010 ,		2
40	System identification, modeling and precision motion control of a linear motor drive stage 2010 ,		2
39	Adaptive robust precision motion control of linear motors with electromagnetic nonlinearity compensation 2011 ,		2
38	Adaptive robust control of a class of nonlinear systems in semi-strict feedback form with non-uniformly detectable unmeasured internal states. <i>International Journal of Adaptive Control and Signal Processing</i> , 2010 , 24, 961-981	2.8	2
37	Neural Network Adaptive Robust Control Of Siso Nonlinear Systems In A Normal Form. <i>Asian Journal of Control</i> , 2008 , 3, 96-110	1.7	2
36	Integrated Direct/Indirect Adaptive Robust Control of Multi-DOF Hydraulic Robotic Arms 2007 , 841		2
35	Adaptive robust control: theory and applications lap integrated design of intelligent and precision mechatronic systems		2
34	A globally stable high performance adaptive robust control algorithm with input saturation for precision motion control of linear motor drive system		2
33	Observer based coordinated adaptive robust control of robot manipulators driven by single-rod hydraulic actuators		2
32	Nonlinear model based coordinated adaptive robust control of electro-hydraulic robotic arms via overparametrizing method		2
31	Unified Method for Task-Space Motion/Force/Impedance Control of Manipulator With Unknown Contact Reaction Strategy. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	2
30	Energy-saving and accurate motion control of a hydraulic actuator with uncertain negative loads. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 253-264	3.7	2
29	Cascade force control of lower limb hydraulic exoskeleton for human performance augmentation 2016 ,		2
28	Adaptive robust motion control of uncertain manipulators through immersion and invariance adaptive visual servoing 2016 ,		2
27	Precision Motion Control of Independent Metering Hydraulic System With Nonlinear Flow Modeling and Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
26	Integrated design of speed sensorless control algorithms for induction motors 2015 ,		1
25	High precision and high efficiency control of pump and valves combined hydraulic system 2018 ,		1
24	Time-dependent orbital stabilization of underactuated bipedal walking 2017 ,		1

23	Modeling and synchronized motion control of a dual-linear-motor-driven gantry by considering rotational dynamics 2017 ,		1
22	Adaptive robust control of mobile satellite communication system with disturbance and model uncertainties. <i>Journal of Systems Engineering and Electronics</i> , 2012 , 23, 761-767	1,3	1
21	Adaptive control for nonlinear system with unknown hysteresis 2012 ,		1
20	Adaptive robust precision motion control of linear motors with high frequency flexible modes 2012 ,		1
19	Experimental design for identification of nonlinear systems with bounded uncertainties 2010 ,		1
18	A case study for adaptive robust precision motion control of systems preceded by unknown dead-zones with comparative experiments 2010 ,		1
17	Set-membership identification based adaptive robust control of systems with unknown parameter bounds 2009 ,		1
16	High bandwidth adaptive robust control for hydraulic rotary actuator 2011 ,		1
15	Adaptive robust tip tracking control of a class of flexible beams 2012 ,		1
14	An Output Feedback Based Adaptive Robust Fault Tolerant Control Scheme for a Class of Nonlinear Systems 2009 ,		1
13	High performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments 1997 ,		1
12	Accommodation of partial actuator faults using output feedback based adaptive robust control 2008 ,		1
11	Fault detection for nonlinear systems in presence of input unmodeled dynamics 2007 ,		1
10	Using Control Theory for Load Shedding in Data Stream Management 2007 ,		1
9	Adaptive robust control of programmable valves with manufacturer supplied flow mapping only 2004 ,		1
8	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form 2001 ,		1
7	Adaptive robust repetitive control of a class of nonlinear systems in normal form with applications to motion control of linear motors		1
6	Adaptive robust control of mechanical systems with nonlinear dynamic friction compensation 2000 ,		1

5	Coordinated adaptive robust contour tracking of linear-motor-driven tables in task space		1
4	Adaptive Robust Motion Control of a Pump Direct Drive Electro-hydraulic System with Meter-Out Pressure Regulation. <i>IFAC-PapersOnLine</i> , 2020 , 53, 9005-9010	0.7	1
3	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 5441-5449	11.9	1
2	A Telepresence-Guaranteed Control Scheme for Teleoperation Applications of Transferring Weight-Unknown Objects. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022 , 9, 1015-1025	7	1
1	Geometric Adaptive Robust Hierarchical Control for Quadrotors with Aerodynamic Damping and Complete Inertia Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0