Xiangxiang Meng

List of Publications by Year
in descending order

53 papers	1,305 citations	567144 15 h-index	501076 28 g-index
53 all docs	53 docs citations	53 times ranked	995 citing authors

#	Article	IF	Citations
1	Disturbance Observer-Based Feedback Linearization Control for a Quadruple-Tank Liquid Level System. ISA Transactions, 2022, 122, 146-162.	3.1	34
2	Optimized control strategy based on EPCH and DBMP algorithms for quadruple-tank liquid level system. Journal of Process Control, 2022, 110, 121-132.	1.7	12
3	Sliding Mode Control of Underactuated Nonlinear Systems Based on Piecewise Double Power Reaching Law. Mathematical Problems in Engineering, 2022, 2022, 1-14.	0.6	3
4	Fuzzy Sliding Mode Adaptive Backstepping Control of Multiple Motors Winding System Based on Disturbance Observer. Journal of Electrical Engineering and Technology, 2022, 17, 1815-1828.	1.2	3
5	Funnel tracking control for nonlinear servo drive systems with unknown disturbances. ISA Transactions, 2022, 128, 328-335.	3.1	9
6	Smooth-Switching Gain Based Adaptive Neural Network Control of n-Joint Manipulator with Multiple Constraints. Actuators, 2022, 11, 127.	1.2	0
7	Neural network dynamic surface position control of nâ€joint robot driven by PMSM with unknown load observer. IET Control Theory and Applications, 2022, 16, 1208-1226.	1.2	14
8	Liquid Level Control of Four-Tank System Based on Active Disturbance Rejection Technology. Measurement: Journal of the International Measurement Confederation, 2021, 175, 109146.	2.5	19
9	Cooperative control of deadbeat predictive and state error portâ€controlled Hamiltonian method for permanent magnet synchronous motor drives. IET Electric Power Applications, 2021, 15, 1343-1357.	1.1	2
10	Neural network-based adaptive funnel sliding mode control for servo mechanisms with friction compensation. Neurocomputing, 2020, 377, 16-26.	3.5	24
11	Smooth-Switching Control of Robot-Based Permanent-Magnet Synchronous Motors via Port-Controlled Hamiltonian and Feedback Linearization. Energies, 2020, 13, 5731.	1.6	4
12	Sliding mode disturbance observer-based the port-controlled Hamiltonian control for a four-tank liquid level system subject to external disturbances. , 2020, , .		3
13	Disturbance Observer and L2-Gain-Based State Error Feedback Linearization Control for the Quadruple-Tank Liquid-Level System. Energies, 2020, 13, 5500.	1.6	13
14	Adaptive Disturbance Attenuation Control of Two Tank Liquid Level System With Uncertain Parameters Based on Port-Controlled Hamiltonian. IEEE Access, 2020, 8, 47384-47392.	2.6	11
15	Disturbance Observer-Based Integral Backstepping Control for a Two-Tank Liquid Level System Subject to External Disturbances. Mathematical Problems in Engineering, 2020, 2020, 1-22.	0.6	2
16	Backstepping sliding mode control of induction motor based on disturbance observer. IET Electric Power Applications, 2020, 14, 2537-2546.	1.1	11
17	Design and implementation of a novel adaptive backstepping control scheme for a PMSM with unknown load torque. IET Electric Power Applications, 2019, 13, 445-455.	1.1	58
18	Robust adaptive tracking control for servo mechanisms with continuous friction compensation. Control Engineering Practice, 2019, 87, 76-82.	3.2	41

#	Article	IF	Citations
19	Barrier Lyapunov functions-based command filtered output feedback control for full-state constrained nonlinear systems. Automatica, 2019, 105, 71-79.	3.0	195
20	Research on the smooth switching control strategy for the four-tank liquid level system. , 2019, , .		2
21	Variable damping injection control of PMSM drive systems based on isolated shootâ€through Zâ€source inverter. IET Electric Power Applications, 2019, 13, 1336-1347.	1.1	3
22	Finite time parameter estimation-based adaptive predefined performance control for servo mechanisms. ISA Transactions, 2019, 87, 174-186.	3.1	14
23	Decentralized state estimation for a large-scale spatially interconnected system. ISA Transactions, 2018, 74, 67-76.	3.1	44
24	Fast Consensus Seeking on Networks with Antagonistic Interactions. Complexity, 2018, 2018, 1-15.	0.9	81
25	Coordination control for supercapacitor charge and discharge in PV energy storage system based on EL and backstepping. , 2018, , .		1
26	Distributed adaptive fixed-time consensus tracking for second-order multi-agent systems using modified terminal sliding mode. Applied Mathematics and Computation, 2017, 312, 23-35.	1.4	52
27	Four quadrant operation and energy optimization control of PMSM drive systems. , 2017, , .		2
28	Coordinated control of sliding mode and Hamiltonian for PWM rectifier. , 2017, , .		1
29	Flux weakening speed control of non-salient pole permanent magnet synchronous motor based on PCH and L2 gain. , 2016, , .		1
30	A design method for controllable topologies of multi-agent networks. , 2016, , .		4
31	Observer and Command-Filter-Based Adaptive Fuzzy Output Feedback Control of Uncertain Nonlinear Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 5962-5970.	5.2	301
32	Induction motor DTC based on adaptive SMC and fuzzy control. , 2015, , .		6
33	Sliding-mode and PCH control of three phase PWM rectifier. , 2015, , .		1
34	Position control of permanent magnet synchronous motor speed sensorless servo system via backstepping. , 2015, , .		3
35	Protocols Design and Uncontrollable Topologies Construction for Multi-Agent Networks. IEEE Transactions on Automatic Control, 2015, 60, 781-786.	3.6	139
36	Controllability of sampled-data multi-agent systems. , 2014, , .		2

#	Article	IF	Citations
37	Energy-shaping and integral control of the three-tank liquid level system. Nonlinear Dynamics, 2013, 73, 2149-2156.	2.7	22
38	Nonlinear control of induction motors based on state error PCH and energy-shaping principle. Nonlinear Dynamics, 2013, 72, 49-59.	2.7	59
39	Energy-shaping and passivity-based control of three-phase PWM rectifiers. , 2012, , .		3
40	Direct adaptive neural control of chaos in the permanent magnet synchronous motor. Nonlinear Dynamics, 2012, 70, 1879-1887.	2.7	35
41	Fuzzy-approximation-based adaptive control of the chaotic permanent magnet synchronous motor. Nonlinear Dynamics, 2012, 69, 1479-1488.	2.7	29
42	Position tracking control of PMSM based on state error PCH and MTPA principle. , 2011, , .		4
43	L2 gain disturbance attenuation of PMSM based on Hamiltonian systems control theory. , 2010, , .		1
44	Speed control of induction motors based on energy-shaping and signal transformation principle. , 2010, , .		1
45	Speed regulation of PMSM based on port-controlled hamiltonian systems and PI control principle. , 2009, , .		5
46	The modeling and control of Buck-Boost converter based on energy-shaping theory. , 2008, , .		5
47	Hamiltonian modeling and energy-shaping control of three-phase ac/dc voltage-source converters. , 2008, , .		10
48	Position control of PMSM based on energy-shaping and MTPA principle. , 2008, , .		4
49	Maximum output power control of PMSM based on energy-shaping and PWM control principle. , 2008, , .		1
50	Maximum Output Power Control of Permanent Magnet Synchronous Motor Based on Energy-shaping Principle. , 2007, , .		4
51	Disturbance attenuation of discrete-time switched linear systems. , 2006, , .		0
52	Analysis and Design of Uncertain Time-Delay Systems Subject to Actuator Saturation. , 2006, , .		0
53	Energy-Shaping Control of PM Synchronous Motor Based on Hamiltonian System Theory. , 2005, , .		7