

# Weilin Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,344  
citations

686830

13  
h-index

552369

26  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Steam generation under one sun enabled by a floating structure with thermal concentration. Nature Energy, 2016, 1, .	19.8	870
2	Robust Model Predictive Control for Discrete-Time Takagi-Sugeno Fuzzy Systems With Structured Uncertainties and Persistent Disturbances. IEEE Transactions on Fuzzy Systems, 2014, 22, 1213-1228.	6.5	97
3	Adaptive Terminal Sliding Mode Control for Hybrid Energy Storage Systems of Fuel Cell, Battery and Supercapacitor. IEEE Access, 2019, 7, 29295-29303.	2.6	47
4	An optimal approach to output-feedback robust model predictive control of LPV systems with disturbances. International Journal of Robust and Nonlinear Control, 2016, 26, 3253-3273.	2.1	41
5	Insights into the Impact of Surface Hydrophobicity on Droplet Coalescence and Jumping Dynamics. Langmuir, 2017, 33, 8574-8581.	1.6	36
6	Disturbance-Observer-Based Terminal Sliding Mode Control for Linear Traction System With Prescribed Performance. IEEE Transactions on Transportation Electrification, 2021, 7, 649-658.	5.3	30
7	Nonsingular Fast Terminal Sliding Mode Control for Permanent Magnet Linear Synchronous Motor via High-Order Super-Twisting Observer. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1651-1659.	3.7	30
8	H $\infty$ Robust Load Frequency Control for Multi-Area Interconnected Power System with Hybrid Energy Storage System. Applied Sciences (Switzerland), 2018, 8, 1748.	1.3	17
9	Dynamic SOC Balance Strategy for Modular Energy Storage System Based on Adaptive Droop Control. IEEE Access, 2020, 8, 41418-41431.	2.6	17
10	A Novel Multi-Agent Model-Free Control for State-of-Charge Balancing Between Distributed Battery Energy Storage Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 679-688.	3.4	16
11	Actuator fault-tolerant load frequency control for interconnected power systems with hybrid energy storage system. Energy Reports, 2020, 6, 1312-1317.	2.5	16
12	A novel approach to the analysis of squeezed-film air damping in microelectromechanical systems. Journal of Micromechanics and Microengineering, 2017, 27, 015012.	1.5	15
13	Data-driven Sliding Mode Control for MIMO systems and Its Application on Linear Induction Motors. International Journal of Control, Automation and Systems, 2019, 17, 1717-1725.	1.6	13
14	A novel dual-mode robust model predictive control approach via alternating optimizations. Automatica, 2021, 133, 109857.	3.0	11
15	Hierarchical global fast terminal sliding mode control for a bridge travelling crane system. IET Control Theory and Applications, 2021, 15, 814-828.	1.2	11
16	Event-Triggered $H_{\infty}$ -Type Robust Model Predictive Control of Linear Systems With Disturbances. IEEE Access, 2019, 7, 53859-53867.	2.6	10
17	A novel robust model predictive control approach with pseudo terminal designs. Information Sciences, 2019, 481, 128-140.	4.0	8
18	Robust model predictive control of uncertain linear systems with persistent disturbances and input constraints. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
19	Decreasingâ€œhorizon Robust Model Predictive Control With Specified Settling Time To A Terminal Constraint Set. Asian Journal of Control, 2016, 18, 664-673.	1.9	6
20	A Model-free Control Strategy for Battery Energy Storage with an Application to Power Accommodation. , 2018, , .		6
21	Disturbance Observer-Based Prescribed Performance Fault-Tolerant Control for a Multi-Area Interconnected Power System with a Hybrid Energy Storage System. Energies, 2020, 13, 1251.	1.6	6
22	Thermal Lattice Boltzmann Simulation of Evaporating Thin Liquid Film for Vapor Generation. Applied Sciences (Switzerland), 2018, 8, 798.	1.3	5
23	Robust Model Predictive Control for Linear Systems via Self-Triggered Pseudo Terminal Ingredients. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1312-1322.	3.5	5
24	Improved Model-Free Adaptive Sliding-Mode-Constrained Control for Linear Induction Motor considering End Effects. Mathematical Problems in Engineering, 2018, 2018, 1-9.	0.6	4
25	Observer-Based Sliding Mode FTC for Multi-Area Interconnected Power Systems against Hybrid Energy Storage Faults. Energies, 2019, 12, 2819.	1.6	4
26	Model Based Robust Predictive Control of Ship Roll/Yaw Motions with Input Constraints. Applied Sciences (Switzerland), 2020, 10, 3377.	1.3	4
27	Power Management of Battery Energy Storage System Using Model Free Adaptive Control. , 2018, , .		2
28	Improved Finite Control Set Model Predictive Control for Permanent Magnet Synchronous Motor Drives. , 2019, , .		2
29	Adaptive Command-Filtered Fuzzy Nonsingular Terminal Sliding Mode Backstepping Control for Linear Induction Motor. Applied Sciences (Switzerland), 2020, 10, 7405.	1.3	2
30	Nonsingular Terminal Sliding Mode Control for PMLSM Based on Disturbance Observer. , 2020, , .		2
31	Prescribed Performance-Based Adaptive Terminal Sliding Mode Control for Virtual Synchronous Generators. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	2
32	Analysis of squeeze film air damping in MEMS with lattice Boltzmann method. , 2016, , .		1
33	Prediction of thin liquid film evaporation characteristics with a thermal lattice boltzmann method. , 2016, , .		1
34	Direct Torque Control of PMSM Based on Model Free iPI Controller. , 2018, , .		1
35	Command-Filtered Backstepping Controller for DC Microgrid with Hybrid Energy Storage Devices. , 2020, , .		0
36	Adaptive Terminal Sliding Mode Backstepping Control for Virtual Synchronous Generators. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	Fault-Tolerant Control for Load Frequency Control System via a Fault Observer. , 2020, , .		0
38	Development of Machine Vision System for Off-Line Inspection of Fine Defects on Glass Screen Surface. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	2.4	0