

# Weilin Yang

## List of Publications by Year in descending order

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38  
papers

1,344  
citations

686830

13  
h-index

552369

26  
g-index

38  
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38  
docs citations

38  
times ranked

2057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonsingular Fast Terminal Sliding Mode Control for Permanent Magnet Linear Synchronous Motor via High-Order Super-Twisting Observer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 1651-1659.	3.7	30
2	Robust Model Predictive Control for Linear Systems via Self-Triggered Pseudo Terminal Ingredients. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 1312-1322.	3.5	5
3	Prescribed Performance-Based Adaptive Terminal Sliding Mode Control for Virtual Synchronous Generators. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-10.	0.6	2
4	Development of Machine Vision System for Off-Line Inspection of Fine Defects on Glass Screen Surface. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	2.4	0
5	A Novel Multi-Agent Model-Free Control for State-of-Charge Balancing Between Distributed Battery Energy Storage Systems. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021, 5, 679-688.	3.4	16
6	Disturbance-Observer-Based Terminal Sliding Mode Control for Linear Traction System With Prescribed Performance. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 649-658.	5.3	30
7	A novel dual-mode robust model predictive control approach via alternating optimizations. <i>Automatica</i> , 2021, 133, 109857.	3.0	11
8	Hierarchical global fast terminal sliding mode control for a bridge travelling crane system. <i>IET Control Theory and Applications</i> , 2021, 15, 814-828.	1.2	11
9	Adaptive Command-Filtered Fuzzy Nonsingular Terminal Sliding Mode Backstepping Control for Linear Induction Motor. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7405.	1.3	2
10	Disturbance Observer-Based Prescribed Performance Fault-Tolerant Control for a Multi-Area Interconnected Power System with a Hybrid Energy Storage System. <i>Energies</i> , 2020, 13, 1251.	1.6	6
11	Model Based Robust Predictive Control of Ship Roll/Yaw Motions with Input Constraints. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3377.	1.3	4
12	Dynamic SOC Balance Strategy for Modular Energy Storage System Based on Adaptive Droop Control. <i>IEEE Access</i> , 2020, 8, 41418-41431.	2.6	17
13	Actuator fault-tolerant load frequency control for interconnected power systems with hybrid energy storage system. <i>Energy Reports</i> , 2020, 6, 1312-1317.	2.5	16
14	Nonsingular Terminal Sliding Mode Control for PMLSM Based on Disturbance Observer. , 2020, , .		2
15	Command-Filtered Backstepping Controller for DC Microgrid with Hybrid Energy Storage Devices. , 2020, , .		0
16	Adaptive Terminal Sliding Mode Backstepping Control for Virtual Synchronous Generators. , 2020, , .		0
17	Fault-Tolerant Control for Load Frequency Control System via a Fault Observer. , 2020, , .		0
18	Observer-Based Sliding Mode FTC for Multi-Area Interconnected Power Systems against Hybrid Energy Storage Faults. <i>Energies</i> , 2019, 12, 2819.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Improved Finite Control Set Model Predictive Control for Permanent Magnet Synchronous Motor Drives. , 2019, , .		2
20	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
21	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
22	Event-Triggered $\mathcal{H}_{\infty}$ -Type Robust Model Predictive Control of Linear Systems With Disturbances. IEEE Access, 2019, 7, 53859-53867.	2.6	10
23	A novel robust model predictive control approach with pseudo terminal designs. Information Sciences, 2019, 481, 128-140.	4.0	8
24	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
25	A Model-free Control Strategy for Battery Energy Storage with an Application to Power Accommodation. , 2018, , .		6
26	Direct Torque Control of PMSM Based on Model Free iPI Controller. , 2018, , .		1
27	Power Management of Battery Energy Storage System Using Model Free Adaptive Control. , 2018, , .		2
28	Thermal Lattice Boltzmann Simulation of Evaporating Thin Liquid Film for Vapor Generation. Applied Sciences (Switzerland), 2018, 8, 798.	1.3	5
29	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
30	Insights into the Impact of Surface Hydrophobicity on Droplet Coalescence and Jumping Dynamics. Langmuir, 2017, 33, 8574-8581.	1.6	36
31	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
32	Analysis of squeeze film air damping in MEMS with lattice Boltzmann method. , 2016, , .		1
33	Steam generation under one sun enabled by a floating structure with thermal concentration. Nature Energy, 2016, 1, .	19.8	870
34	Prediction of thin liquid film evaporation characteristics with a thermal lattice boltzmann method. , 2016, , .		1
35	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
36	Decreasing the Horizon Robust Model Predictive Control With Specified Settling Time To A Terminal Constraint Set. Asian Journal of Control, 2016, 18, 664-673.	1.9	6

#	ARTICLE	IF	CITATIONS
37	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
38	Robust model predictive control of uncertain linear systems with persistent disturbances and input constraints. , 2013, , .		6