

# Weidong Zhang

## List of Publications by Year in descending order

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113  
papers

2,080  
citations

361413

20  
h-index

265206

42  
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118  
all docs

118  
docs citations

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times ranked

3166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Asynchronous Output-Feedback Controller Design for Markovian Jump Systems With Output Quantization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 1214-1223.	9.3	11
2	TNF- $\alpha$ Triggers RIP1/FADD/Caspase-8-Mediated Apoptosis of Astrocytes and RIP3/MLKL-Mediated Necroptosis of Neurons Induced by <i>Angiostrongylus cantonensis</i> Infection. <i>Cellular and Molecular Neurobiology</i> , 2022, 42, 1841-1857.	3.3	17
3	A New Method to Design Distributed Consensus Controller for Linear Multi-Agent Systems With Directed Graphs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 1492-1496.	3.0	2
4	Tumor microenvironment-responsive size-switchable drug delivery nanosystems. <i>Expert Opinion on Drug Delivery</i> , 2022, 19, 221-234.	5.0	11
5	A data-driven Dirac-MUSIC method based on the MLP model. <i>IET Science, Measurement and Technology</i> , 2022, 16, 367-376.	1.6	2
6	Improved Object Detection Method for Unmanned Surface Vehicle Using Real-Time Neural Networks. , 2022, , .		1
7	Determination of Optimal Characteristic Point Positions for Modulus Back-Calculation of Layered Pavement Structure. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2022, 148, .	1.5	0
8	Mobilization of arsenic during reductive dissolution of As(V)-bearing jarosite by a sulfate reducing bacterium. <i>Journal of Hazardous Materials</i> , 2021, 402, 123717.	12.4	12
9	Oxidative stress-induced mitophagy is suppressed by the miR-106b-93-25 cluster in a protective manner. <i>Cell Death and Disease</i> , 2021, 12, 209.	6.3	25
10	Accurate partial discharge localisation using a multi-deep neural network model trained with a novel virtual measurement method. <i>IET Science, Measurement and Technology</i> , 2021, 15, 352.	1.6	1
11	Multifunctional Liposomes Enable Active Targeting and Twinfilin 1 Silencing to Reverse Paclitaxel Resistance in Brain Metastatic Breast Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23396-23409.	8.0	24
12	Distributed Nash equilibrium learning: A second-order proximal algorithm. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 6392-6409.	3.7	3
13	Control Strategies for Target-Attacker-Defender Games of USVs. , 2021, , .		3
14	Individual effects of L-arginine or L-lysine on stability of pork or chicken emulsion sausages with partial replacement of porcine backfat by soybean oil. <i>International Journal of Food Science and Technology</i> , 2021, 56, 6742-6751.	2.7	5
15	Quality of frozen porcine Longissimus lumborum muscles injected with L-arginine and L-lysine solution. <i>Meat Science</i> , 2021, 179, 108530.	5.5	19
16	The Imprinted PARAFILM as a New Carrier Material for Dried Plasma Spots (DPSs) Utilizing Desorption Electrospray Ionization Mass Spectrometry (DESI-MS) in Phospholipidomics. <i>Frontiers in Chemistry</i> , 2021, 9, 801043.	3.6	2
17	Real-Time Control Allocation for Autonomous Surface Vehicle Using Constrained Quadratic Programming. <i>Research on World Agricultural Economy</i> , 2021, 01, .	1.3	1
18	Controller Designed via an Adaptive Reaching Law for DSMC Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 330-334.	3.0	15

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19	Neuronal NLRC5 regulates MHC class I expression in Neuroa cells and also during hippocampal development. <i>Journal of Neurochemistry</i> , 2020, 152, 182-194.	3.9	11
20	Simultaneous Fault Estimation for Markovian Jump Systems With Generally Uncertain Transition Rates: A Reduced-Order Observer Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 7889-7897.	7.9	16
21	48 weeks outcome after cessation of nucleos(t)ide analogue therapy in chronic hepatitis B patients. <i>Annals of Hepatology</i> , 2020, 19, 329-334.	1.5	2
22	MiR34a Regulates Neuronal MHC Class I Molecules and Promotes Primary Hippocampal Neuron Dendritic Growth and Branching. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 573208.	3.7	8
23	Effects of adsorbed phosphate on jarosite reduction by a sulfate reducing bacterium and associated mineralogical transformation. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110921.	6.0	3
24	Alterations of Gut Microbiome and Metabolite Profiling in Mice Infected by <i>Schistosoma japonicum</i> . <i>Frontiers in Immunology</i> , 2020, 11, 569727.	4.8	32
25	Notice of Violation of IEEE Publication Principles: Channel Equalization and Data Detection of OFDM Under Fading Channel. <i>IEEE Access</i> , 2020, 8, 77120-77130.	4.2	0
26	Data-driven method using DNN for PD location in substations. <i>IET Science, Measurement and Technology</i> , 2020, 14, 314-321.	1.6	14
27	Bandgap-tunable device realized by ternary plasma photonic crystals arrays. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
28	Synthesis, antitumor activity, and molecular docking of (â)-epigallocatechin-3-gallate-4Î-triazolopodophyllotoxin conjugates. <i>Journal of Asian Natural Products Research</i> , 2020, 23, 1-9.	1.4	3
29	V2G Strategy for Primary Frequency Control of an Industrial Microgrid Considering the Charging Station Operator. <i>Electronics (Switzerland)</i> , 2020, 9, 549.	3.1	41
30	Grid-searching method in polar coordinate system for PD location in substations. <i>IET Science, Measurement and Technology</i> , 2020, 14, 924-931.	1.6	0
31	Research on Image Representation Algorithm of Partial Discharge Pulse Signal Based on Time-Frequency Analysis. , 2020, , .		0
32	Characteristic Analysis of Point Discharge Current Pulse Using Numerical Simulation Based on Fluid Dynamics Model. , 2020, , .		1
33	A Frequency Mixing Processing Method for PD Signals Acquired by Multiple Different Type of Sensors. , 2020, , .		0
34	An External UHF Miniaturized Compound Spiral Slot Antenna for Partial Discharge Detection in GIS. , 2020, , .		5
35	Efficient Liquid-Liquid Extraction of Benzene from Its Mixture with Cyclohexane by Utilizing Hyperbranched Polymeric Ammoniums Salts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 15321-15331.	3.7	1
36	Simultaneous fault estimation for uncertain Markovian jump systems subjected to actuator degradation. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 4435-4453.	3.7	7

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37	Effects of Phenolic Pollution on Interspecific Competition between <i>Microcystis aeruginosa</i> and <i>Chlorella pyrenoidosa</i> and their Photosynthetic Responses. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3947.	2.6	9
38	Simple Approach on Intermixing Solar and Wind Energy and Minimizing Their Intermittent Effect. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2019, 24, 24-30.	0.9	3
39	Design of a Distributed UHF Sensor Array System for PD Detection and Location in Substation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 1844-1851.	4.7	19
40	Current pulse characteristic analysis of typical void and point partial discharge based on PIC-MCC method. <i>IET Science, Measurement and Technology</i> , 2019, 13, 447-452.	1.6	5
41	Finite-time dissipative filtering for uncertain discrete-time systems with state and disturbance-dependent noise over fading channels. <i>ISA Transactions</i> , 2019, 86, 134-143.	5.7	12
42	$H_2$ input load disturbance rejection controller design for synchronised output regulation of time-delayed multi-agent systems with frequency domain method. <i>International Journal of Control</i> , 2019, 92, 356-367.	1.9	7
43	Preparation of TiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> /CF composites for enhanced microwave absorbing performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7194-7202.	2.2	17
44	Robust adaptive trajectory tracking control of underactuated surface vessel in fields of marine practice. <i>Journal of Marine Science and Technology</i> , 2018, 23, 950-957.	2.9	45
45	Output feedback semiglobal practical consensus of linear systems with relative state-dependent uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 3560-3573.	3.7	2
46	Consensus controllers for general integrator multi-agent systems: analysis, design and application to autonomous surface vessels. <i>IET Control Theory and Applications</i> , 2018, 12, 669-678.	2.1	15
47	Performance recovery of a class of uncertain non-affine systems with unmodelled dynamics: an indirect dynamic inversion method. <i>International Journal of Control</i> , 2018, 91, 266-284.	1.9	10
48	Research on the sliding mode control for underactuated surface vessels via parameter estimation. <i>Nonlinear Dynamics</i> , 2018, 91, 1163-1175.	5.2	43
49	Leader-follower formation control of underactuated surface vehicles based on sliding mode control and parameter estimation. <i>ISA Transactions</i> , 2018, 72, 15-24.	5.7	122
50	Design and development of a portable partial discharge generator. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 366, 012072.	0.6	1
51	Grid Searching Method in Polar Coordinate for PD Location in Substation. , 2018, , .		1
52	Design of an omnidirectional PD UHF antenna for substation inspection robot considering installation circumstance. , 2018, , .		0
53	EGCC Reduces Obesity and White Adipose Tissue Gain Partly Through AMPK Activation in Mice. <i>Frontiers in Pharmacology</i> , 2018, 9, 1366.	3.5	113
54	Microscopic simulation and characteristics analysis of surface discharge based on PIC-MCC method. , 2018, , .		0

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55	Partial Discharge Pattern Recognition with Data Augmentation based on Generative Adversarial Networks. , 2018, , .		15
56	Analysis of Time-Frequency Characteristics of PD Electromagnetic Wave Based on Electromagnetic Simulation. , 2018, , .		1
57	EMD- WVD Method Based High- Frequency Current Analysis of Low Voltage Arc. , 2018, , .		4
58	Grid searching method in spherical coordinate for PD location in a substation. , 2018, , .		2
59	Optimal control of non-minimum phase integrating processes with time delay using disturbance observer-based control scheme. International Journal of Systems Science, 2018, 49, 1725-1737.	5.5	0
60	Disturbance observer-based consensus control of input-delayed LTI systems with matched disturbances: a predictor feedback approach. IET Control Theory and Applications, 2018, 12, 1584-1591.	2.1	6
61	Cooperative output regulation of linear heterogeneous systems with mismatched uncertainties via generalised extended state observer. IET Control Theory and Applications, 2017, 11, 685-693.	2.1	10
62	Dimension Effect on Breakdown Voltage of Partial SOI LDMOS. IEEE Journal of the Electron Devices Society, 2017, 5, 157-163.	2.1	8
63	Optimal disturbance rejection controllers design for synchronised output regulation of time-delayed multi-agent systems. IET Control Theory and Applications, 2017, 11, 1053-1062.	2.1	7
64	Adaptive non-singular integral terminal sliding mode tracking control for autonomous underwater vehicles. IET Control Theory and Applications, 2017, 11, 1293-1306.	2.1	224
65	A General Strategy for Open-Flask Alkene Isomerization by Ruthenium Hydride Complexes with Non-Redox Metal Salts. ChemCatChem, 2017, 9, 3849-3859.	3.7	11
66	Multiple Trench Split-gate SOI LDMOS Integrated With Schottky Rectifier. IEEE Transactions on Electron Devices, 2017, 64, 3028-3031.	3.0	7
67	H2 consensus control of time-delayed multi-agent systems: A frequency-domain method. ISA Transactions, 2017, 66, 437-447.	5.7	8
68	Guaranteed cost consensus protocol design for linear multi-agent systems with sampled-data information: An input delay approach. ISA Transactions, 2017, 67, 87-97.	5.7	46
69	Numerical Investigation of High-Voltage Partial Buried P/N-Layer SOI LDMOS. IEEE Transactions on Electron Devices, 2017, 64, 3725-3733.	3.0	8
70	Simulation Study of 4H-SiC UMOSFET Structure With p <sup>+</sup> -polySi/SiC Shielded Region. IEEE Transactions on Electron Devices, 2017, 64, 3719-3724.	3.0	33
71	Optimal disturbance rejection controller design for integrating processes with dead time based on algebraic theory. International Journal of Systems Science, 2017, 48, 1266-1280.	5.5	2
72	Electrical line-shafting control for motor speed synchronisation using sliding mode controller and disturbance observer. IET Control Theory and Applications, 2017, 11, 205-212.	2.1	36

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73	H <sub>2</sub> analytical decoupling control design for non-square systems with time delays. , 2017, , .		0
74	Speed control for sensorless SPMSM via variable structure controller and EMF-based position estimation scheme. , 2017, , .		0
75	On finite-level dynamic quantisation of event-triggered networked systems with actuator fault. IET Control Theory and Applications, 2017, 11, 2927-2937.	2.1	3
76	A Novel Transient Fault Current Sensor Based on the PCB Rogowski Coil for Overhead Transmission Lines. Sensors, 2016, 16, 742.	3.8	26
77	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. Review of Scientific Instruments, 2016, 87, 075119.	1.3	18
78	Development of asymmetric biconical antenna for vehicle-mounted partial discharge detection in substations. , 2016, , .		1
79	Recent research results on wireless passive acoustic sensors for smart grids application. , 2016, , .		5
80	Event-triggered fault-tolerant control for networked systems with dynamic quantiser. IET Control Theory and Applications, 2016, 10, 1088-1096.	2.1	33
81	Robust distributed model predictive control under actuator saturations and packet dropouts with time-varying probabilities. IET Control Theory and Applications, 2016, 10, 534-544.	2.1	8
82	Identification of Lightning Strike on 500-kV Transmission Line Based on the Time-Domain Parameters of a Traveling Wave. IEEE Access, 2016, 4, 7241-7250.	4.2	20
83	Performance analysis and optimization of passive location to stationary target. , 2016, , .		2
84	A comparative study of optimization algorithms for correction of radar system error. , 2016, , .		0
85	Output tracking of boiler-turbine system by fuzzy guaranteed cost control. , 2016, , .		4
86	Time frequency characteristic analysis and simulation of VFTO waveform generated by disconnector switch in GIS. , 2016, , .		7
87	A nonlinear updated gain observer for MIMO systems: Design, analysis and application to marine surface vessels. ISA Transactions, 2016, 64, 129-140.	5.7	7
88	Robust adaptive tracking control of MIMO nonlinear systems in the presence of actuator hysteresis. International Journal of Systems Science, 2016, 47, 2359-2369.	5.5	8
89	Distributed adaptive containment control of heterogeneous linear multi-agent systems: an output regulation approach. IET Control Theory and Applications, 2016, 10, 95-102.	2.1	71
90	Multivariable disturbance observer-based H <sub>2</sub> analytical decoupling control design for multivariable systems. International Journal of Systems Science, 2016, 47, 179-193.	5.5	12

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91	On the pole of non-square transfer function matrix Mooreâ€“Penrose pseudo-inverses. International Journal of Systems Science, 2015, 46, 2560-2571.	5.5	5
92	A new design scheme of distributed controller for heterogeneous multi-agent systems. , 2015, , .		0
93	H&lt;inf&gt;2&lt;/inf&gt; optimal speed regulator for vector controlled induction motor drives. , 2015, , .		1
94	Stabilization of Markov Jump Linear Systems with Input Quantization. Circuits, Systems, and Signal Processing, 2015, 34, 2109-2126.	2.0	3
95	Dynamic quantised feedback stabilisation of discrete-time linear system with white noise input. International Journal of Systems Science, 2015, 46, 2221-2230.	5.5	2
96	Robust reliable feedback controller design against actuator faults for linear parameterâ€“varying systems in finiteâ€“frequency domain. IET Control Theory and Applications, 2015, 9, 1595-1607.	2.1	13
97	Characterisation system for the evaluation of digital partial discharge measuring instruments. IET Science, Measurement and Technology, 2015, 9, 817-825.	1.6	3
98	Observerâ€“based adaptive consensus tracking for linear multiâ€“agent systems with input saturation. IET Control Theory and Applications, 2015, 9, 2124-2131.	2.1	56
99	Stabilization of discrete-time linear systems with quantization and arbitrary packet losses. Transactions of the Institute of Measurement and Control, 2015, 37, 1084-1094.	1.7	3
100	A stochastic model for power system transient stability with wind power. , 2014, , .		15
101	QoE-Oriented Two-Stage Resource Allocation in Femtocell Networks. , 2014, , .		21
102	Consensus-Based Cooperative Source Localization of Multi-Agent Systems with Sampled Range Measurements. Unmanned Systems, 2014, 02, 231-241.	3.6	13
103	Functionalized Graphitic Carbon Nitride for Metal-free, Flexible and Rewritable Nonvolatile Memory Device via Direct Laser-Writing. Scientific Reports, 2014, 4, 5882.	3.3	94
104	TS-fuzzy modeling based on $\hat{\mu}$ -insensitive smooth support vector regression. Journal of Intelligent and Fuzzy Systems, 2013, 24, 805-817.	1.4	5
105	Graphene quantum dotsâ€“carbon nanotube hybrid arrays for supercapacitors. Nanotechnology, 2013, 24, 195401.	2.6	84
106	Optimization of transmission spatial layer selection with unreliable RI in MIMO-OFDM systems. , 2012, , .		1
107	Design of temperature sensor array in smart electric grid based on SAW resonators. , 2012, , .		3
108	Location Algorithm for Partial Discharge Based on Radio Frequency (RF) Antenna Array. , 2012, , .		6

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109	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. <i>Journal of Materials Chemistry</i> , 2011, 21, 13978.	6.7	51
110	Chemical constituents of <i>Rhododendron primulaeflorum</i> . <i>Chemistry of Natural Compounds</i> , 2010, 46, 106-108.	0.8	5
111	A New Knapsack Public-Key Cryptosystem. , 2009, , .		7
112	Frequency adjustment method for in-situ seismic modulus of asphalt concrete. <i>International Journal of Pavement Engineering</i> , 0, , 1-9.	4.4	7
113	A novel robust fault estimation observer design for semi-Markovian jump systems with partially bounded transition rate. <i>International Journal of Robust and Nonlinear Control</i> , 0, , .	3.7	1