

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
g-index

118
all docs

118
docs citations

118
times ranked

3166
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Leader-follower formation control of underactuated surface vehicles based on sliding mode control and parameter estimation. ISA Transactions, 2018, 72, 15-24.	5.7	122
3	EGCG Reduces Obesity and White Adipose Tissue Gain Partly Through AMPK Activation in Mice. Frontiers in Pharmacology, 2018, 9, 1366.	3.5	113
4	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
5	Graphene quantum dots-carbon nanotube hybrid arrays for supercapacitors. Nanotechnology, 2013, 24, 195401.	2.6	84
6	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
7	Observer-based adaptive consensus tracking for linear multi-agent systems with input saturation. IET Control Theory and Applications, 2015, 9, 2124-2131.	2.1	56
8	Electrochemical deposition of polyaniline nanosheets mediated by sulfonated polyaniline functionalized graphenes. Journal of Materials Chemistry, 2011, 21, 13978.	6.7	51
9	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
10	Robust adaptive trajectory tracking control of underactuated surface vessel in fields of marine practice. Journal of Marine Science and Technology, 2018, 23, 950-957.	2.9	45
11	Research on the sliding mode control for underactuated surface vessels via parameter estimation. Nonlinear Dynamics, 2018, 91, 1163-1175.	5.2	43
12	V2G Strategy for Primary Frequency Control of an Industrial Microgrid Considering the Charging Station Operator. Electronics (Switzerland), 2020, 9, 549.	3.1	41
13	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
14	Event-triggered fault-tolerant control for networked systems with dynamic quantiser. IET Control Theory and Applications, 2016, 10, 1088-1096.	2.1	33
15	Simulation Study of 4H-SiC UMOSFET Structure With p ⁺ -polySi/SiC Shielded Region. IEEE Transactions on Electron Devices, 2017, 64, 3719-3724.	3.0	33
16	Alterations of Gut Microbiome and Metabolite Profiling in Mice Infected by Schistosoma japonicum. Frontiers in Immunology, 2020, 11, 569727.	4.8	32
17	A Novel Transient Fault Current Sensor Based on the PCB Rogowski Coil for Overhead Transmission Lines. Sensors, 2016, 16, 742.	3.8	26
18	Oxidative stress-induced mitophagy is suppressed by the miR-106b-93-25 cluster in a protective manner. Cell Death and Disease, 2021, 12, 209.	6.3	25

#	ARTICLE	IF	CITATIONS
19	Multifunctional Liposomes Enable Active Targeting and Twinfilin 1 Silencing to Reverse Paclitaxel Resistance in Brain Metastatic Breast Cancer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23396-23409.	8.0	24
20	QoE-Oriented Two-Stage Resource Allocation in Femtocell Networks. , 2014, , .		21
21	Identification of Lightning Strike on 500-kV Transmission Line Based on the Time-Domain Parameters of a Traveling Wave. <i>IEEE Access</i> , 2016, 4, 7241-7250.	4.2	20
22	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
23	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
24	A novel high-density power energy harvesting methodology for transmission line online monitoring devices. <i>Review of Scientific Instruments</i> , 2016, 87, 075119.	1.3	18
25	Preparation of TiO ₂ /Fe ₃ O ₄ /CF composites for enhanced microwave absorbing performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7194-7202.	2.2	17
26	TNF- α 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
27	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
28	A stochastic model for power system transient stability with wind power. , 2014, , .		15
29	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
30	Partial Discharge Pattern Recognition with Data Augmentation based on Generative Adversarial Networks. , 2018, , .		15
31	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
32	Data-driven method using DNN for PD location in substations. <i>IET Science, Measurement and Technology</i> , 2020, 14, 314-321.	1.6	14
33	Consensus-Based Cooperative Source Localization of Multi-Agent Systems with Sampled Range Measurements. <i>Unmanned Systems</i> , 2014, 02, 231-241.	3.6	13
34	Robust reliable feedback controller design against actuator faults for linear parameter-varying systems in finite-frequency domain. <i>IET Control Theory and Applications</i> , 2015, 9, 1595-1607.	2.1	13
35	Multivariable disturbance observer-based H_2 analytical decoupling control design for multivariable systems. <i>International Journal of Systems Science</i> , 2016, 47, 179-193.	5.5	12
36	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

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37	Bandgap-tunable device realized by ternary plasma photonic crystals arrays. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	12
38	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
39	A General Strategy for Open-Flask Alkene Isomerization by Ruthenium Hydride Complexes with Non-Redox Metal Salts. <i>ChemCatChem</i> , 2017, 9, 3849-3859.	3.7	11
40	Neuronal NLRC5 regulates MHC class I expression in Neuro2a cells and also during hippocampal development. <i>Journal of Neurochemistry</i> , 2020, 152, 182-194.	3.9	11
41	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
42	Tumor microenvironment-responsive size-switchable drug delivery nanosystems. <i>Expert Opinion on Drug Delivery</i> , 2022, 19, 221-234.	5.0	11
43	Cooperative output regulation of linear heterogeneous systems with mismatched uncertainties via generalised extended state observer. <i>IET Control Theory and Applications</i> , 2017, 11, 685-693.	2.1	10
44	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
45	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
46	Robust distributed model predictive control under actuator saturations and packet dropouts with time-varying probabilities. <i>IET Control Theory and Applications</i> , 2016, 10, 534-544.	2.1	8
47	Robust adaptive tracking control of MIMO nonlinear systems in the presence of actuator hysteresis. <i>International Journal of Systems Science</i> , 2016, 47, 2359-2369.	5.5	8
48	Dimension Effect on Breakdown Voltage of Partial SOI LDMOS. <i>IEEE Journal of the Electron Devices Society</i> , 2017, 5, 157-163.	2.1	8
49	H2 consensus control of time-delayed multi-agent systems: A frequency-domain method. <i>ISA Transactions</i> , 2017, 66, 437-447.	5.7	8
50	Numerical Investigation of High-Voltage Partial Buried P/N-Layer SOI LDMOS. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3725-3733.	3.0	8
51	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
52	A New Knapsack Public-Key Cryptosystem. , 2009, , .		7
53	Time frequency characteristic analysis and simulation of VFTO waveform generated by disconnector switch in GIS. , 2016, , .		7
54	A nonlinear updated gain observer for MIMO systems: Design, analysis and application to marine surface vessels. <i>ISA Transactions</i> , 2016, 64, 129-140.	5.7	7

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55	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
56	Multiple Trench Split-gate SOI LDMOS Integrated With Schottky Rectifier. IEEE Transactions on Electron Devices, 2017, 64, 3028-3031.	3.0	7
57	Simultaneous fault estimation for uncertain Markovian jump systems subjected to actuator degradation. International Journal of Robust and Nonlinear Control, 2019, 29, 4435-4453.	3.7	7
58	input load disturbance rejection controller design for synchronised output regulation of time-delayed multi-agent systems with frequency domain method. International Journal of Control, 2019, 92, 356-367.	1.9	7
59	Frequency adjustment method for in-situ seismic modulus of asphalt concrete. International Journal of Pavement Engineering, 0, , 1-9.	4.4	7
60	Location Algorithm for Partial Discharge Based on Radio Frequency (RF) Antenna Array. , 2012, , .		6
61	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
62	Chemical constituents of Rhododendron primulaeflorum. Chemistry of Natural Compounds, 2010, 46, 106-108.	0.8	5
63	TS-fuzzy modeling based on μ -insensitive smooth support vector regression. Journal of Intelligent and Fuzzy Systems, 2013, 24, 805-817.	1.4	5
64	On the pole of non-square transfer function matrix Moore-Penrose pseudo-inverses. International Journal of Systems Science, 2015, 46, 2560-2571.	5.5	5
65	Recent research results on wireless passive acoustic sensors for smart grids application. , 2016, , .		5
66	Current pulse characteristic analysis of typical void and point partial discharge based on PIC-MCC method. IET Science, Measurement and Technology, 2019, 13, 447-452.	1.6	5
67	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. International Journal of Food Science and Technology, 2021, 56, 6742-6751.	2.7	5
68	An External UHF Miniaturized Compound Spiral Slot Antenna for Partial Discharge Detection in GIS. , 2020, , .		5
69	Output tracking of boiler-turbine system by fuzzy guaranteed cost control. , 2016, , .		4
70	EMD- WVD Method Based High- Frequency Current Analysis of Low Voltage Arc. , 2018, , .		4
71	Design of temperature sensor array in smart electric grid based on SAW resonators. , 2012, , .		3
72	Stabilization of Markov Jump Linear Systems with Input Quantization. Circuits, Systems, and Signal Processing, 2015, 34, 2109-2126.	2.0	3

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73	Characterisation system for the evaluation of digital partial discharge measuring instruments. IET Science, Measurement and Technology, 2015, 9, 817-825.	1.6	3
74	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
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	Simple Approach on Intermixing Solar and Wind Energy and Minimizing Their Intermittent Effect. Journal of Shanghai Jiaotong University (Science), 2019, 24, 24-30.	0.9	3
77	Effects of adsorbed phosphate on jarosite reduction by a sulfate reducing bacterium and associated mineralogical transformation. Ecotoxicology and Environmental Safety, 2020, 202, 110921.	6.0	3
78	Synthesis, antitumor activity, and molecular docking of (α)-epigallocatechin-3-gallate-4 β -triazolopodophyllotoxin conjugates. Journal of Asian Natural Products Research, 2020, 23, 1-9.	1.4	3
79	Distributed Nash equilibrium learning: A second-order proximal algorithm. International Journal of Robust and Nonlinear Control, 2021, 31, 6392-6409.	3.7	3
80	Control Strategies for Target-Attacker-Defender Games of USVs. , 2021, , .		3
81	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
82	Performance analysis and optimization of passive location to stationary target. , 2016, , .		2
83	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
84	Output feedback semiglobal practical consensus of linear systems with relative state-dependent uncertainties. International Journal of Robust and Nonlinear Control, 2018, 28, 3560-3573.	3.7	2
85	Grid searching method in spherical coordinate for PD location in a substation. , 2018, , .		2
86	48 weeks outcome after cessation of nucleos(t)ide analogue therapy in chronic hepatitis B patients. Annals of Hepatology, 2020, 19, 329-334.	1.5	2
87	A New Method to Design Distributed Consensus Controller for Linear Multi-Agent Systems With Directed Graphs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1492-1496.	3.0	2
88	The Imprinted PARAFILM as a New Carrier Material for Dried Plasma Spots (DPSs) Utilizing Desorption Electrospray Ionization Mass Spectrometry (DESI-MS) in Phospholipidomics. Frontiers in Chemistry, 2021, 9, 801043.	3.6	2
89	A data-driven DirMUSIC method based on the MLP model. IET Science, Measurement and Technology, 2022, 16, 367-376.	1.6	2
90	Optimization of transmission spatial layer selection with unreliable RI in MIMO-OFDM systems. , 2012, , .		1

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91	H<inf>2</inf> optimal speed regulator for vector controlled induction motor drives. , 2015, , .		1
92	Development of asymmetric biconical antenna for vehicle-mounted partial discharge detection in substations. , 2016, , .		1
93	Design and development of a portable partial discharge generator. IOP Conference Series: Materials Science and Engineering, 2018, 366, 012072.	0.6	1
94	Grid Searching Method in Polar Coordinate for PD Location in Substation. , 2018, , .		1
95	Analysis of Time-Frequency Characteristics of PD Electromagnetic Wave Based on Electromagnetic Simulation. , 2018, , .		1
96	Efficient Liquidâ€“Liquid Extraction of Benzene from Its Mixture with Cyclohexane by Utilizing Hyperbranched Polymeric Ammoniums Salts. Industrial & Engineering Chemistry Research, 2019, 58, 15321-15331.	3.7	1
97	Accurate partial discharge localisation using a multiâ€“deep neural network model trained with a novel virtual measurement method. IET Science, Measurement and Technology, 2021, 15, 352.	1.6	1
98	Characteristic Analysis of Point Discharge Current Pulse Using Numerical Simulation Based on Fluid Dynamics Model. , 2020, , .		1
99	A novel robust fault estimation observer design for semiâ€“Markovian jump systems with partially bounded transition rate. International Journal of Robust and Nonlinear Control, 0, , .	3.7	1
100	Real-Time Control Allocation for Autonomous Surface Vehicle Using Constrained Quadratic Programming. Research on World Agricultural Economy, 2021, 01, .	1.3	1
101	Improved Object Detection Method for Unmanned Surface Vehicle Using Real-Time Neural Networks. , 2022, , .		1
102	A new design scheme of distributed controller for heterogeneous multi-agent systems. , 2015, , .		0
103	A comparative study of optimization algorithms for correction of radar system error. , 2016, , .		0
104	H<inf>2</inf> analytical decoupling control design for non-square systems with time delays. , 2017, , .		0
105	Speed control for sensorless SPMSM via variable structure controller and EMF-based position estimation scheme. , 2017, , .		0
106	Design of an omnidirectional PD UHF antenna for substation inspection robot considering installation circumstance. , 2018, , .		0
107	Microscopic simulation and characteristics analysis of surface discharge based on PIC-MCC method. , 2018, , .		0
108	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

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109	Notice of Violation of IEEE Publication Principles: Channel Equalization and Data Detection of OFVDM Under Fading Channel. IEEE Access, 2020, 8, 77120-77130.	4.2	0
110	Grid searching method in polar coordinate system for PD location in substations. IET Science, Measurement and Technology, 2020, 14, 924-931.	1.6	0
111	Research on Image Representation Algorithm of Partial Discharge Pulse Signal Based on Time-Frequency Analysis. , 2020, , .		0
112	A Frequency Mixing Processing Method for PD Signals Acquired by Multiple Different Type of Sensors. , 2020, , .		0
113	Determination of Optimal Characteristic Point Positions for Modulus Back-Calculation of Layered Pavement Structure. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	1.5	0