

# Chun Yin

## List of Publications by Year in descending order

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110  
papers

2,997  
citations

218381

26  
h-index

168136

53  
g-index

110  
all docs

110  
docs citations

110  
times ranked

2384  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractional-order sliding mode based extremum seeking control of a class of nonlinear systems. <i>Automatica</i> , 2014, 50, 3173-3181.	3.0	331
2	Control of a novel class of fractional-order chaotic systems via adaptive sliding mode control approach. <i>Applied Mathematical Modelling</i> , 2013, 37, 2469-2483.	2.2	243
3	Nonfragile asynchronous control for uncertain chaotic Lurie network systems with Bernoulli stochastic process. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 1693-1714.	2.1	192
4	Extreme learning machine and adaptive sparse representation for image classification. <i>Neural Networks</i> , 2016, 81, 91-102.	3.3	190
5	Design of sliding mode controller for a class of fractional-order chaotic systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 356-366.	1.7	187
6	Adaptive fractional-order switching-type control method design for 3D fractional-order nonlinear systems. <i>Nonlinear Dynamics</i> , 2015, 82, 39-52.	2.7	186
7	Fractional-order exponential switching technique to enhance sliding mode control. <i>Applied Mathematical Modelling</i> , 2017, 44, 705-726.	2.2	129
8	An SOC estimation approach based on adaptive sliding mode observer and fractional order equivalent circuit model for lithium-ion batteries. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 24, 127-144.	1.7	90
9	Design of Fractional-Order Backstepping Sliding Mode Control for Quadrotor UAV. <i>Asian Journal of Control</i> , 2019, 21, 156-171.	1.9	82
10	Design of adaptive backstepping dynamic surface control method with RBF neural network for uncertain nonlinear system. <i>Neurocomputing</i> , 2019, 330, 490-503.	3.5	79
11	Energy-saving control strategy for lighting system based on multivariate extremum seeking with Newton algorithm. <i>Energy Conversion and Management</i> , 2017, 142, 504-522.	4.4	76
12	Landmark recognition with sparse representation classification and extreme learning machine. <i>Journal of the Franklin Institute</i> , 2015, 352, 4528-4545.	1.9	75
13	Novel integral inequality approach on master-slave synchronization of chaotic delayed Lur <sup>e</sup> systems with sampled-data feedback control. <i>Nonlinear Dynamics</i> , 2016, 83, 1259-1274.	2.7	73
14	Fractional-order adaptive minimum energy cognitive lighting control strategy for the hybrid lighting system. <i>Energy and Buildings</i> , 2015, 87, 176-184.	3.1	64
15	Novel delay-dependent master-slave synchronization criteria of chaotic Lur <sup>e</sup> systems with time-varying-delay feedback control. <i>Applied Mathematics and Computation</i> , 2016, 282, 137-154.	1.4	59
16	Design of optimal lighting control strategy based on multi-variable fractional-order extremum seeking method. <i>Information Sciences</i> , 2018, 465, 38-60.	4.0	57
17	Hypervelocity impact of TiB <sub>2</sub> -based composites as front bumpers for space shield applications. <i>Materials and Design</i> , 2016, 97, 473-482.	3.3	52
18	Design PD controller for master-slave synchronization of chaotic Lur <sup>e</sup> systems with sector and slope restricted nonlinearities. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 1632-1639.	1.7	48

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19	Adaptive minimum energy cognitive lighting control: Integer order vs fractional order strategies in sliding mode based extremum seeking. <i>Mechatronics</i> , 2013, 23, 863-872.	2.0	48
20	On delay-dependent robust stability of a class of uncertain mixed neutral and Lur <sup>e</sup> dynamical systems with interval time-varying delays. <i>Journal of the Franklin Institute</i> , 2010, 347, 1623-1642.	1.9	43
21	Design an adaptive sliding mode controller for drive-response synchronization of two different uncertain fractional-order chaotic systems with fully unknown parameters. <i>Journal of the Franklin Institute</i> , 2012, 349, 3078-3101.	1.9	39
22	Urban noise recognition with convolutional neural network. <i>Multimedia Tools and Applications</i> , 2019, 78, 29021-29041.	2.6	38
23	Hypervelocity impact damage behavior of B4C/Al composite for MMOD shielding application. <i>Materials and Design</i> , 2020, 186, 108323.	3.3	38
24	Fractional-order switching type control law design for adaptive sliding mode technique of 3D fractional-order nonlinear systems. <i>Complexity</i> , 2016, 21, 363-373.	0.9	33
25	Robust stability analysis of fractional-order uncertain singular nonlinear system with external disturbance. <i>Applied Mathematics and Computation</i> , 2015, 269, 351-362.	1.4	31
26	Radar emitter identification with bispectrum and hierarchical extreme learning machine. <i>Multimedia Tools and Applications</i> , 2019, 78, 28953-28970.	2.6	28
27	Maximum Correntropy Criterion-Based Hierarchical One-Class Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 3748-3754.	7.2	28
28	An improved feature extraction algorithm for automatic defect identification based on eddy current pulsed thermography. <i>Mechanical Systems and Signal Processing</i> , 2018, 113, 5-21.	4.4	27
29	Research on Damages Evaluation Method With Multi-Objective Feature Extraction Optimization Scheme for M/OD Impact Risk Assessment. <i>IEEE Access</i> , 2019, 7, 98530-98545.	2.6	27
30	Research on crack detection applications of improved PCNN algorithm in moi nondestructive test method. <i>Neurocomputing</i> , 2018, 277, 249-259.	3.5	23
31	Design of the MOI method based on the artificial neural network for crack detection. <i>Neurocomputing</i> , 2017, 226, 80-89.	3.5	21
32	Adaptive rapid defect identification in ECPT based on K-means and automatic segmentation algorithm. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 1-18.	3.3	20
33	Design and stability analysis of multivariate extremum seeking with Newton method. <i>Journal of the Franklin Institute</i> , 2018, 355, 1559-1578.	1.9	19
34	An Improved Bearing Fault Diagnosis Scheme Based on Hierarchical Fuzzy Entropy and Alexnet Network. <i>IEEE Access</i> , 2021, 9, 61710-61720.	2.6	19
35	A magnetic domain spots filtering method with self-adapting threshold value selecting for crack detection based on the MOI. <i>Nonlinear Dynamics</i> , 2016, 86, 741-750.	2.7	18
36	Robust control for uncertain Lur <sup>e</sup> systems with sector and slope restricted nonlinearities by PD state feedback. <i>Nonlinear Analysis: Real World Applications</i> , 2011, 12, 501-512.	0.9	17

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37	Optimizing Energy Consumption for Lighting Control System via Multivariate Extremum Seeking Control With Diminishing Dither Signal. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1848-1859.	3.4	17
38	Adaptive Fractional-Order SMC Controller Design for Unmanned Quadrotor Helicopter Under Actuator Fault and Disturbances. IEEE Access, 2020, 8, 103792-103802.	2.6	17
39	Successive approximation method for the measurement of thickness using pulsed eddy current. , 2015, , .		16
40	Delay-partitioning approach design for stochastic stability analysis of uncertain neutral-type neural networks with Markovian jumping parameters. Neurocomputing, 2016, 207, 437-449.	3.5	16
41	The design and performance analysis of multivariate fractional-order gradient-based extremum seeking approach. Applied Mathematical Modelling, 2018, 62, 680-700.	2.2	14
42	On the Dynamics of an Impulsive Reaction-Diffusion Predator-Prey System with Ratio-Dependent Functional Response. Acta Applicandae Mathematicae, 2011, 115, 329-349.	0.5	10
43	Design of trajectory tracking controller with fractional-order backstepping sliding mode method for quadrotor UAV. , 2018, , .		10
44	A novel distance estimation algorithm for periodic surface vibrations based on frequency band energy percentage feature. Mechanical Systems and Signal Processing, 2018, 113, 222-236.	4.4	9
45	Robust stability and stabilization of uncertain fractional-order descriptor nonlinear system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6080-6085.	0.4	8
46	ICA fusion approach based on fuzzy using in eddy current pulsed thermography. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 443-451.	0.3	8
47	Multidimensional Fractional-Order Newton-Based Extremum Seeking for Online Light-Energy Saving Technique of Lighting System. IEEE Transactions on Industrial Electronics, 2020, 67, 8576-8586.	5.2	8
48	Infrared feature extraction and prediction method based on dynamic multi-objective optimization for space debris impact damages inspection. Journal of the Franklin Institute, 2021, 358, 10165-10192.	1.9	8
49	DOA Estimation of Excavation Devices with ELM and MUSIC-Based Hybrid Algorithm. Cognitive Computation, 2017, 9, 564-580.	3.6	7
50	Exponential $\hat{z}$ synchronization of non-fragile sampled-data controlled complex dynamical networks with random coupling and time varying delay. Systems Science and Control Engineering, 2018, 6, 370-387.	1.8	7
51	Actuator fault tolerant controlling using adaptive radical basis function neural network SMC for quadrotor UAV. , 2019, , .		7
52	Infrared Detection Method for Hypervelocity Impact Based on Thermal Image Fusion. IEEE Access, 2021, 9, 90510-90528.	2.6	7
53	An improved active islanding detection method applying to multi-inverter power system. , 2015, , .		6
54	Extremum seeking control with fractional-order switching technique design for maximum power point tracking in photovoltaic systems. , 2015, , .		6

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55	Fault diagnostics of rolling bearings using feature fusion based BP, RBF and PNN neural networks. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 95-102.	0.3	6
56	Design of Fractional-Order Backstepping Sliding Mode Controller for the Quadrotor Unmanned Aerial Vehicles. , 2018, , .		6
57	Design of Hypervelocity-Impact Damage Evaluation Technique Based on Bayesian Classifier of Transient Temperature Attributes. IEEE Access, 2020, 8, 18703-18715.	2.6	6
58	Using an Optimal Multi-Target Image Segmentation Based Feature Extraction Method to Detect Hypervelocity Impact Damage for Spacecraft. IEEE Sensors Journal, 2021, 21, 20258-20272.	2.4	5
59	Global Extremum Seeking Control with Sliding Modes for output-feedback global tracking of nonlinear systems. , 2012, , .		4
60	Combustion Synthesis of TiB <sub>2</sub> -TiC/42CrMo4 Composites with Gradient Joint Prepared in Different High-Gravity Fields. Journal of Materials Engineering and Performance, 2015, 24, 4585-4593.	1.2	4
61	Selection of significant independent components in eddy current pulsed thermography non-destructive testing. , 2015, , .		4
62	Artificial intelligence in impact damage evaluation of space debris for spacecraft. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 511-514.	1.5	4
63	Fractional-order power rate type reaching law for sliding mode control of uncertain nonlinear system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5369-5374.	0.4	3
64	Adaptive backstepping control of block-strict-feedback systems with unknown parameters. , 2017, , .		3
65	Tracking the Minimum Energy Consumption for the Lighting System though Modified Extremum Seeking Method. Energy Procedia, 2017, 105, 2583-2588.	1.8	3
66	Design of trajectory tracking controller with backstepping method for quadrotor unmanned aerial vehicles. , 2018, , .		3
67	Design of the fractional-order adaptive nonsingular terminal sliding mode controller for 6-DOF robotic manipulator. , 2018, , .		3
68	Microstructures and Toughening of TiC-TiB <sub>2</sub> Ceramic Composites with Cr-Based Alloy Phase Prepared by Combustion Synthesis in High-Gravity Field. Advances in Materials Science and Engineering, 2015, 1-6.	1.0	2
69	Interference of various active islanding detection methods with positive feedback in multi-inverter power system. Journal of Renewable and Sustainable Energy, 2015, 7, 033103.	0.8	2
70	Detection of the crack by reducing the influence of the magnetic domain based on the MOI. , 2016, , .		2
71	Design of trajectory tracking control for adaptive intelligent detection based on 6-DOF manipulator. , 2017, , .		2
72	Fractional order nonsingular fast terminal sliding mode control technique for 6-DOF robotic manipulator. , 2018, , .		2

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73	Design of an Automatic Defect Identification Method Based ECPT for Pneumatic Pressure Equipment. Complexity, 2018, 2018, 1-16.	0.9	2
74	An enhance feature algorithm for defect detection of pneumatic pressure equipment using eddy current pulsed thermography. , 2018, , .		2
75	Synchronization of Complex Dynamical Networks with Randomly Coupling via Nonfragile Control. , 2018, , .		2
76	Design of Defect Diagnosis Algorithm with Multi-objective Feature Extraction Optimization to Assess the M/OD Impact Damages. , 2021, , .		2
77	Spacecraft damage infrared detection algorithm for hypervelocity impact based on double-layer multi-target segmentation. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 571-586.	1.5	2
78	Response to the comments on "Design of sliding mode controller for a class of fractional-order chaotic systems" [Commun Nonlinear Sci Numer Simulat 2012;17:356-366]. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 5291-5293.	1.7	1
79	Estimating the state of charge of lithium batteries based on fractional-order sliding-mode observer. , 2014, , .		1
80	Grid-connected photovoltaic system using compound current control of the novel repetitive and PI. , 2015, , .		1
81	Stainless steel weld defect detection using eddy current pulsed thermography. , 2015, , .		1
82	Maximum Power Point Tracking in Photovoltaic System Through Extremum Seeking Control With FO Switching Technique. , 2015, , .		1
83	An independent components number estimation technique in eddy current pulsed thermography. , 2016, , .		1
84	Peak Searching for Multimodal Optimization through Gradient-based Stochastic Extremum Seeking Technique. Energy Procedia, 2017, 105, 2589-2594.	1.8	1
85	Crack detection using the MOI method based on artificial neural network. , 2017, , .		1
86	Trajectory tracking optimal control with backstepping method for quadrotor helicopter. , 2017, , .		1
87	Dynamic mission allocation for interceptions by using multiple rotary-wing UAVs. , 2017, , .		1
88	Optimal lighting control strategy for lighting system based on multivariable fractional-order extremum seeking method. , 2018, , .		1
89	Rapid Defect Detection for Spacecraft in Infrared Reconstructed Images Based on Automatic Optimum Mosaic Algorithm. , 2021, , .		1
90	Novel Delay-Dependent Stabilization Criterion for Lur'e Systems with Sector-Restricted Nonlinearities and External Disturbances via PD Feedback Approach. Journal of Optimization Theory and Applications, 2011, 151, 81-99.	0.8	0

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91	Plasma impedance matching using fractional order sliding mode based extremum seeking control. , 2014, , .		0
92	Minimizing energy consumption of lighting system using fractional-order extremum seeking control. , 2015, , .		0
93	Ensemble based constrained-optimization extreme learning machine for landmark recognition. , 2015, , .		0
94	Fractional-order sliding mode-extremum seeking control design with fractional-order PI sliding surface. , 2015, , .		0
95	Statistical test method used to measure the thickness based on the electromagnetism way. , 2016, , .		0
96	Robust stability of fractional-order nonlinear systems under sliding mode controller with fractional-order reaching law. , 2016, , .		0
97	Non-fragile Synchronization of Markovian Jumping Complex Dynamical Networks with Random Coupling and Time-Varying Delays. , 2018, , .		0
98	A design of detection algorithm based on thermal regions separation for pressure vessels. , 2018, , .		0
99	Adaptive intelligent detection based on 6-DOF manipulator. , 2018, , .		0
100	Design of Fractional-order Multivariable Extremum Seeking with Newton Algorithm. , 2018, , .		0
101	Gradient-based stochastic extremum seeking for static maps with delays. , 2019, , .		0
102	A New Spacecraft Impact Damage Feature Extraction Algorithm Based on Dynamic Multi-Objective Optimization Method. , 2019, , .		0
103	Multi-objective Optimization for Infrared Image Feature Detecting under Multi-performance Analysis. , 2019, , .		0
104	Assessment of pressure vessel based on Variational Bayesian. , 2020, , .		0
105	A decomposition multi-objective optimization method based on dynamic weight adjustment for infrared thermal image defect feature adaptive extraction method. , 2021, , .		0
106	GMM-based Automatic Defect Recognition Algorithm for Pressure Vessels Defect Detection through ECPT. IFAC-PapersOnLine, 2020, 53, 820-825.	0.5	0
107	Design of Hypervelocity-Impact Damage Assessment Technique based on Variational Bayesian. IFAC-PapersOnLine, 2020, 53, 814-819.	0.5	0
108	Rapid Defect Detection for Spacecraft in Infrared Reconstructed Images Using Image Mosaic Technique. IFAC-PapersOnLine, 2020, 53, 5695-5700.	0.5	0

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109	Light Energy Saving method of Lighting System Based on MISO FO Newton-based ES. , 2020, , .		0
110	Enhancement of Defect Detectability in Pneumatic Pressure Equipment Using an Automatic Detection Technique in ECPT. Journal of Testing and Evaluation, 2021, 49, 640-660.	0.4	0