

He Yigang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

1,267
citations

18
h-index

29
g-index

150
ext. papers

1,696
ext. citations

3.5
avg, IF

5.37
L-index

#	Paper	IF	Citations
132	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 586-595	5.2	140
131	An improved SVM classifier based on double chains quantum genetic algorithm and its application in analogue circuit diagnosis. <i>Neurocomputing</i> , 2016 , 211, 202-211	5.4	65
130	Analog Circuit Incipient Fault Diagnosis Method Using DBN Based Features Extraction. <i>IEEE Access</i> , 2018 , 6, 23053-23064	3.5	58
129	Finite-time robust fault-tolerant control against actuator faults and saturations. <i>IET Control Theory and Applications</i> , 2017 , 11, 550-556	2.5	37
128	Capacity Prognostics of Lithium-Ion Batteries using EMD Denoising and Multiple Kernel RVM. <i>IEEE Access</i> , 2017 , 5, 12061-12070	3.5	35
127	Solution of optimal reactive power dispatch with FACTS devices: A survey. <i>Energy Reports</i> , 2020 , 6, 2211-2229	4.29	35
126	Cryptanalysis and Improvement of the Image Encryption Scheme Based on 2D Logistic-Adjusted-Sine Map. <i>IEEE Access</i> , 2019 , 7, 12584-12597	3.5	32
125	Intelligent Classification of Silicon Photovoltaic Cell Defects Based on Eddy Current Thermography and Convolution Neural Network. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6242-6251	11.9	29
124	Cryptanalysis and Improvement of the Hyper-Chaotic Image Encryption Scheme Based on DNA Encoding and Scrambling. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-15	1.8	29
123	Generative Adversarial Networks With Comprehensive Wavelet Feature for Fault Diagnosis of Analog Circuits. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6640-6650	5.2	27
122	Transformer Fault Diagnosis Using Self-Powered RFID Sensor and Deep Learning Approach. <i>IEEE Sensors Journal</i> , 2018 , 18, 6399-6411	4	27
121	A Novel Localization Algorithm Based on Isomap and Partial Least Squares for Wireless Sensor Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 304-314	5.2	27
120	Analysis of A-stationary random signals in the linear canonical transform domain. <i>Signal Processing</i> , 2018 , 146, 126-132	4.4	24
119	Design of Fractional Swarm Intelligent Computing With Entropy Evolution for Optimal Power Flow Problems. <i>IEEE Access</i> , 2020 , 8, 111401-111419	3.5	23
118	Remaining Useful Life Prediction and State of Health Diagnosis of Lithium-Ion Battery Based on Second-Order Central Difference Particle Filter. <i>IEEE Access</i> , 2020 , 8, 37305-37313	3.5	22
117	Self-Powered RFID Sensor Tag for Fault Diagnosis and Prognosis of Transformer Winding. <i>IEEE Sensors Journal</i> , 2017 , 17, 6418-6430	4	21
116	An Improved Open-Switch Fault Diagnosis Technique of a PWM Voltage Source Rectifier Based on Current Distortion. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12212-12225	7.2	20

115	Transformer Health Management Based on Self-Powered RFID Sensor and Multiple Kernel RVM. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 818-828	5.2	19
114	Transformer Fault Diagnosis Method Based on Self-Powered RFID Sensor Tag, DBN, and MKSVM. <i>IEEE Sensors Journal</i> , 2019 , 19, 8202-8214	4	18
113	Constant Power Load Stabilization in DC Microgrid Systems Using Passivity-Based Control With Nonlinear Disturbance Observer. <i>IEEE Access</i> , 2020 , 8, 92393-92406	3.5	18
112	Prognostics of Lithium-Ion Batteries Based on Wavelet Denoising and DE-RVM. <i>Computational Intelligence and Neuroscience</i> , 2015 , 2015, 918305	3	18
111	Online diagnostic method of open-switch faults in PWM voltage source rectifier based on instantaneous AC current distortion. <i>IET Electric Power Applications</i> , 2018 , 12, 447-454	1.8	17
110	Detection of Cardiac Signal Characteristic Point Using Log-Domain Wavelet Transform Circuits. <i>Circuits, Systems, and Signal Processing</i> , 2008 , 27, 683-698	2.2	17
109	A New Chaotic Attractor and Its Synchronization Implementation. <i>Circuits, Systems, and Signal Processing</i> , 2015 , 34, 1747-1768	2.2	16
108	Fault diagnosis for analog circuits utilizing time-frequency features and improved VVRKFA. <i>Measurement Science and Technology</i> , 2018 , 29, 045004	2	15
107	A Plain-Image-Related Chaotic Image Encryption Algorithm Based on DNA Sequence Operation and Discrete Logarithm. <i>IEEE Access</i> , 2019 , 7, 181589-181609	3.5	15
106	Cryptanalysis of the integrated chaotic systems based image encryption algorithm. <i>Optik</i> , 2019 , 186, 449-457	2.5	15
105	Feature extraction of analogue circuit fault signals via cross-wavelet transform and variational Bayesian matrix factorisation. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 318-327	1.5	14
104	Image encryption algorithm based on discrete logarithm and memristive chaotic system. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 1951-1967	2.3	13
103	A Naive-Bayes-Based Fault Diagnosis Approach for Analog Circuit by Using Image-Oriented Feature Extraction and Selection Technique. <i>IEEE Access</i> , 2020 , 8, 5065-5079	3.5	13
102	Analysis of Mutual Couple Effect of UHF RFID Antenna for the Internet of Things Environment. <i>IEEE Access</i> , 2019 , 7, 81451-81465	3.5	12
101	Robust Geman-McClure Based Nonlinear Spline Adaptive Filter Against Impulsive Noise. <i>IEEE Access</i> , 2020 , 8, 22571-22580	3.5	12
100	A Novel Approach To Diagnosis Of Analog Circuit Incipient Faults Based On KECA And OAO LSSVM. <i>Metrology and Measurement Systems</i> , 2015 , 22, 251-262		12
99	Uncertainty relations for signal concentrations associated with the linear canonical transform 2018 , 81, 100-105		11
98	Channel Estimation in MIMO-DFDM Systems Based on a New Adaptive Greedy Algorithm. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 29-32	5.9	11

97	An Integrated Method of the Future Capacity and RUL Prediction for Lithium-Ion Battery Pack. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	11
96	Energy-Saving Measurement in LoRaWAN-Based Wireless Sensor Networks by Using Compressed Sensing. <i>IEEE Access</i> , 2020 , 8, 49477-49486	3.5	10
95	An Adaptive SVD Method for Solving the Pass-Region Problem in S-Transform Time-Frequency Filters. <i>Chinese Journal of Electronics</i> , 2015 , 24, 115-123	0.9	10
94	A Novel Domestic Electric Water Heater Control Method. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3246-3256	3.7	10
93	Adaptive finite-time synchronization of a class of pinned and adjustable complex networks. <i>Nonlinear Dynamics</i> , 2016 , 85, 1393-1403	5	10
92	Reconstruction theorem for bandlimited signals from noisy samples in the offset linear canonical transform domain. <i>Optik</i> , 2018 , 171, 862-868	2.5	9
91	Tilt Angle Monitoring by Using Sparse Residual LSTM Network and Grid Search. <i>IEEE Sensors Journal</i> , 2019 , 19, 8803-8812	4	9
90	On-Line Measurement of Dynamic Tilt Angle by Compensating Gyroscope Drift Error. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 3244-3252	5.2	9
89	Electromagnetic Induction Heating and Image Fusion of Silicon Photovoltaic Cell Electrothermography and Electroluminescence. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 4413-4422	11.9	9
88	Fast Solving Method Based on Linearized Equations of Branch Power Flow for Coordinated Charging of EVs (EVCC). <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 4404-4418	6.8	8
87	Modeling and Prediction of the Reliability Analysis of an 18-Pulse Rectifier Power Supply for Aircraft Based Applications. <i>IEEE Access</i> , 2020 , 8, 47063-47071	3.5	8
86	Tilt Angle On-Line Prognosis by Using Improved Sparse LSSVR and Dynamic Sliding Window. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 296-306	5.2	8
85	Neural Network Algorithm for Designing FIR Filters Utilizing Frequency-Response Masking Technique. <i>Journal of Computer Science and Technology</i> , 2009 , 24, 463-471	1.7	8
84	Gear Fault Diagnosis in Variable Speed Condition Based on Multiscale Chirplet Path Pursuit and Linear Canonical Transform. <i>Complexity</i> , 2018 , 2018, 1-8	1.6	8
83	Analysis of Current Distortion of Three-Phase Voltage Source Rectifiers and its Application in Fault Diagnosis. <i>IEEE Access</i> , 2020 , 8, 4065-4075	3.5	7
82	Nonuniform Sampling Theorems for Bandlimited Signals in the Offset Linear Canonical Transform. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 3227-3244	2.2	7
81	Metric of the Application Environment Impact to the Passive UHF RFID System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 2387-2395	5.2	7
80	Broadband UHF RFID tag antenna with a rectangular-loop feed and additional patches. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 1234-1236	1.2	7

79	The Post-Fault Current Model of Voltage Source Converter and Its Application in Fault Diagnosis. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1209-1214	7.2	7
78	Temperature Compensation and Pressure Bias Estimation for Piezoresistive Pressure Sensor Based on Machine Learning Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	7
77	Performance Analysis of Efficient Computing Techniques for Direction of Arrival Estimation of Underwater Multi Targets. <i>IEEE Access</i> , 2021 , 9, 33284-33298	3.5	7
76	A Systematic Design Method for 3-D Grid Multiscroll Chaotic Attractors and Its Circuit Implementation Employing CFOAs. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550041	2	6
75	Diagonal recurrent neural network based on-line stator winding turn fault detection for induction motors 2005 ,		6
74	Intelligent diagnosis of cascaded H-bridge multilevel inverter combining sparse representation and deep convolutional neural networks. <i>IET Power Electronics</i> , 2021 , 14, 1121-1137	2.2	6
73	The extrapolation of bandlimited signals in the offset linear canonical transform domain. <i>Optik</i> , 2019 , 180, 626-634	2.5	6
72	A sequential computational approach to optimal control problems for differential-algebraic systems based on efficient implicit Runge-Kutta integration. <i>Applied Mathematical Modelling</i> , 2018 , 58, 313-330	4.5	5
71	Nonlinear correction of photoelectric displacement sensor based on least square support vector machine. <i>Journal of Central South University</i> , 2011 , 18, 1614-1618	2.1	5
70	A novel method for fault diagnosis of analog circuits based on WP and GPNN. <i>International Journal of Electronics</i> , 2008 , 95, 431-439	1.2	5
69	On the application of artificial neural networks to fault diagnosis in analog circuits with tolerances		5
68	Fog-Computing-Based Short-Circuit Diagnosis Scheme. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3359-3371	3.7	5
67	A Novel Adaptive Hybrid Truncation Precoding Strategy in Massive MIMO. <i>IEEE Communications Letters</i> , 2018 , 22, 2298-2301	3.8	5
66	A Multiple Open-Circuit Fault Diagnosis Method for Two-Level Three-Phase Voltage Source Converters Based on Average Phase Voltage Model. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	5
65	Realization of Analog Wavelet Filter Using Hybrid Genetic Algorithm for On-Line Epileptic Event Detection. <i>IEEE Access</i> , 2020 , 8, 33137-33150	3.5	4
64	Switched-current circuits test using pseudo-random method. <i>Analog Integrated Circuits and Signal Processing</i> , 2007 , 52, 47-55	1.2	4
63	State-of-Health Prognosis for Lithium-Ion Batteries Considering the Limitations in Measurements via Maximal Information Entropy and Collective Sparse Variational Gaussian Process. <i>IEEE Access</i> , 2020 , 8, 188199-188217	3.5	4
62	Pilot Assignment for Cell Free Massive MIMO Systems Using a Weighted Graphical Framework. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 6190-6194	6.8	4

61	Electro-Thermal-Mechanical Multiphysics Coupling Failure Analysis Based on Improved IGBT Dynamic Model. <i>IEEE Access</i> , 2019 , 7, 174155-174166	3.5	4
60	Partial Discharge Localization in Substations Using a Regularization Method. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 822-830	4.3	4
59	A Method for the Localization of Partial Discharge Sources in Transformers Using TDOA and Truncated Singular Value Decomposition. <i>IEEE Sensors Journal</i> , 2021 , 21, 6741-6751	4	4
58	Feature Extraction and Classification of Cataluminescence Images Based on Sparse Coding Convolutional Neural Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	4
57	Multiple Open-Circuit Fault Diagnosis Method in NPC Rectifiers Using Fault Injection Strategy. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 8554-8571	7.2	4
56	Anti-Interference Deep Visual Identification Method for Fault Localization of Transformer Using a Winding Model. <i>Sensors</i> , 2019 , 19,	3.8	3
55	Structure and realization of pole-shared switched-current complex wavelet filter. <i>Analog Integrated Circuits and Signal Processing</i> , 2015 , 85, 193-199	1.2	3
54	Primal dual interior point dynamic programming for coordinated charging of electric vehicles. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017 , 5, 1004-1015	4	3
53	A fast matrix inverse s-transform algorithm for MCG denoise 2015 ,		3
52	Extrapolation Theorem for Bandlimited Signals Associated with the Offset Linear Canonical Transform. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 1699-1712	2.2	3
51	Multi-Resolution Generalized S-Transform Denoising for Precise Localization of Partial Discharge in Substations. <i>IEEE Sensors Journal</i> , 2021 , 21, 4966-4980	4	3
50	A Partial Discharge Localization Method in Transformers Based on Linear Conversion and Density Peak Clustering. <i>IEEE Access</i> , 2021 , 9, 7447-7459	3.5	3
49	Dynamics Feature and Synchronization of a Robust Fractional-Order Chaotic System. <i>Complexity</i> , 2018 , 2018, 1-12	1.6	3
48	Surrogate Model-Based Energy-Efficient Scheduling for LPWA-Based Environmental Monitoring Systems. <i>IEEE Access</i> , 2018 , 6, 59940-59948	3.5	3
47	Dynamical Behavior of a 3D Jerk System with a Generalized Memristive Device. <i>Complexity</i> , 2018 , 2018, 1-10	1.6	3
46	A Novel Anti-Collision Algorithm in RFID for Internet of Things. <i>IEEE Access</i> , 2018 , 6, 45860-45874	3.5	3
45	A hypothesis method for T-type three-level inverters open-circuit fault diagnosis based on output phase voltage model. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
44	Switched-current filter structure for synthesizing arbitrary characteristics based on follow-the-leader feedback configuration. <i>Analog Integrated Circuits and Signal Processing</i> , 2015 , 82, 479-486	1.2	2

43	Effect of grain boundary on electric performance of ZnO nanowire transistor with wrap-around gate. <i>Central South University</i> , 2011 , 18, 1009-1012		2
42	Broadband and size-reduced microstrip antenna with double T-feed for UHF RFID tags. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 2697-2699	1.2	2
41	A fully-programmable analog VLSI for Gaussian function generator using switched-current circuit 2007 ,		2
40	Wireless Channel Scene Recognition Method Based on an Autocorrelation Function and Deep Learning. <i>IEEE Access</i> , 2020 , 8, 226324-226336	3.5	2
39	Hilbert ID Considering Multi-Window Feature Extraction for Transformer Deep Vision Fault Positioning. <i>IEEE Access</i> , 2020 , 8, 91276-91286	3.5	2
38	Channel Estimation in Massive MIMO Systems Based on Generalized Block Adaptive Matching Pursuit Algorithm. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 2098-2101	5.9	2
37	Real-Time Fault Detection and Diagnosis System for Analog and Mixed-Signal Circuits of AcoustoMagnetic EAS Devices. <i>IEEE Design and Test</i> , 2016 , 33, 77-90	1.4	2
36	Open-switch fault diagnosis in three-level rectifiers based on selective calculation method for instant voltage deviation. <i>IET Power Electronics</i> , 2021 , 14, 923-935	2.2	2
35	A Robust Fully Arctangent Adaptive Interpolated Volterra Filtering Algorithm Against Impulsive Noise. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 2742-2746	3.5	2
34	Broad Echo State Network for Channel Prediction in MIMO-OFDM Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 13383-13399	6.8	1
33	Adaptive Elastic Echo State Network for Channel Prediction in IEEE802.11ah Standard-Based OFDM System. <i>IEEE Access</i> , 2020 , 8, 10169-10185	3.5	1
32	Construction of bulk power grid security defense system under the background of AC/DC hybrid EHV transmission system and new energy 2017 ,		1
31	Improved FBD reactive power and harmonic current detecting method based on voltage sequence decomposition 2015 ,		1
30	Wavelet Neural Network Approach for Testing of Switched-Current Circuits. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 2011 , 27, 611-625	0.7	1
29	Four optimal design approaches of high-order finite-impulse response filters based on neural network. <i>Central South University</i> , 2007 , 14, 94-99		1
28	Fuzzy Model based On-line Stator Winding Turn Fault Detection for Induction Motors 2006 ,		1
27	Analogue VLSI implementations of wavelet transform based on switched-current technology 2007 ,		1
26	Design of 2D digital filters using BP neural networks 2005 ,		1

25	Fuzzy Neural Network based Predictive Control for Active Power Filter 2006 ,		1
24	Line fault location in a distribution network based on K-fault diagnosis method		1
23	A neural network approach for fault diagnosis of large-scale analogue circuits		1
22	An Evaluation Method of Electromagnetic Interference Based on a Fast S-Transform and TimeFrequency Space Model. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 1-9	2	1
21	Characteristic Harmonic Spectrum Relocating for Controlling Specific Inter-Harmonics of Inverters With New Phase-Shifted Rotating PWM. <i>IEEE Access</i> , 2020 , 8, 191005-191027	3.5	1
20	The reactive power optimization of distribution network based on wind power output scenario and complete-bus load 2016 ,		1
19	New shift-invariant spaces for the linear canonical transform and their applications. <i>Optik</i> , 2021 , 227, 165892	2.5	1
18	A Novel Localization Method of Partial Discharge Sources in Substations Based on UHF Antenna and TSVD Regularization. <i>IEEE Sensors Journal</i> , 2021 , 21, 17040-17052	4	1
17	A Method for Increasing the Bandwidth of Rogowski Coils Without Changing Their Size. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-10	5.2	1
16	Design and Optimization Methods of the Header of HDI PCB Rogowski Current Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	1
15	Analysis, Stabilization, and DSP-Based Implementation of a Chaotic System with Nonhyperbolic Equilibrium. <i>Complexity</i> , 2020 , 2020, 1-11	1.6	0
14	Low Complexity Channel Prediction Using TFOS-ELM Method for Massive MIMO Systems. <i>IEEE Access</i> , 2020 , 8, 36681-36690	3.5	0
13	A simple structure wavelet transform circuit employing function link neural networks and SI filters. <i>International Journal of Electronics</i> , 2016 , 103, 2052-2063	1.2	0
12	An Analog Circuit Fault Diagnosis Approach Based on Improved Wavelet Transform and MKELM. <i>Circuits, Systems, and Signal Processing</i> , 2022 , 41, 1255	2.2	0
11	Fast Search Algorithm for Key Transmission Sections Based on Topology Converging Adjacency Matrix. <i>IEEE Access</i> , 2020 , 8, 108235-108246	3.5	0
10	Multi-Period Fast Robust Optimization for Partial Distributed Generators (DGs) Providing Ancillary Services. <i>Energies</i> , 2021 , 14, 4911	3.1	0
9	Adaptive Transfer Learning Based on a Two-Stream Densely Connected Residual Shrinkage Network for Transformer Fault Diagnosis over Vibration Signals. <i>Electronics (Switzerland)</i> , 2021 , 10, 2130 ^{2.6}		0
8	A space hybridization theory for dealing with data insufficiency in intelligent power equipment diagnosis. <i>Electric Power Systems Research</i> , 2021 , 199, 107363	3.5	0

7	Open Circuit Fault Diagnosis of NPC Inverter Based on Improved 1-D CNN Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	0
6	The study of hybrid model identification, computation analysis and fault location for nonlinear dynamic circuits and systems. <i>Frontiers of Mechanical Engineering in China</i> , 2006 , 1, 233-237		
5	Steady-State Mean-Square Error Analysis for Adaptive Joint Process Filter Using Pipelined Feedforward Second-order Volterra Architecture. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	
4	OPTIMAL ANALOG WAVELET BASES CONSTRUCTION USING HYBRID OPTIMIZATION ALGORITHM. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2016 , 9, 1918-1942	0.4	
3	Sparsity Learning-Based CSI Feedback for FDD Massive MIMO Systems. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 585-588	5.9	
2	The Extrapolation Theorem for Discrete Signals in the Offset Linear Canonical Transform Domain. <i>Circuits, Systems, and Signal Processing</i> , 1	2.2	
1	Distributed Voltage Restoration of AC Microgrids Under Communication Delays: A Predictive Control Perspective. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-11	3.9	