

Yichuang Sun

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1605947/yichuang-sun-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

111
papers

1,187
citations

19
h-index

30
g-index

141
ext. papers

1,864
ext. citations

2.9
avg, IF

5.33
L-index

#	Paper	IF	Citations
111	Automated Visual Defect Detection for Flat Steel Surface: A Survey. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 626-644	5.2	98
110	A field programmable analog array for CMOS continuous-time OTA-C filter applications. <i>IEEE Journal of Solid-State Circuits</i> , 2002 , 37, 125-136	5.5	72
109	Firing multistability in a locally active memristive neuron model. <i>Nonlinear Dynamics</i> , 2020 , 100, 3667-3683		63
108	Hybrid multisynchronization of coupled multistable memristive neural networks with time delays. <i>Neurocomputing</i> , 2019 , 363, 281-294	5.4	57
107	Generalized Completed Local Binary Patterns for Time-Efficient Steel Surface Defect Classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 667-679	5.2	51
106	A Multi-Stable Memristor and its Application in a Neural Network. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 3472-3476	3.5	48
105	Focal design issues affecting the deployment of wireless sensor networks for pipeline monitoring. <i>Ad Hoc Networks</i> , 2013 , 11, 1237-1253	4.8	46
104	. <i>IEEE Access</i> , 2020 , 8, 39310-39321	3.5	44
103	Versatile active biquad based on second-generation current conveyors. <i>International Journal of Electronics</i> , 1994 , 76, 91-98	1.2	40
102	Weighted sum synchronization of memristive coupled neural networks. <i>Neurocomputing</i> , 2020 , 403, 211-223	5.4	29
101	Synchronization of inertial memristive neural networks with time-varying delays via static or dynamic event-triggered control. <i>Neurocomputing</i> , 2020 , 404, 367-380	5.4	28
100	Structure generation and design of multiple loop feedback OTA-grounded capacitor filters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1997 , 44, 1-11		27
99	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 12708-12719	8.9	26
98	Miniaturized Resonator and Bandpass Filter for Silicon-Based Monolithic Microwave and Millimeter-Wave Integrated Circuits. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 4062-4071	3.9	25
97	Neural Bursting and Synchronization Emulated by Neural Networks and Circuits. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 3397-3410	3.9	25
96	Surface Defect Classification for Hot-Rolled Steel Strips by Selectively Dominant Local Binary Patterns. <i>IEEE Access</i> , 2019 , 7, 23488-23499	3.5	24
95	Optimal Quality-of-Service Scheduling for Energy-Harvesting Powered Wireless Communications. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 3269-3280	9.6	21

94	A 14-mW PLL-Less Receiver in 0.18- μm CMOS for Chinese Electronic Toll Collection Standard. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2014 , 61, 763-767	3.5	20
93	Design of current-mode multiple output OTA and capacitor filters. <i>International Journal of Electronics</i> , 1996 , 81, 95-99	1.2	20
92	Current-mode multiple-loop feedback filters using dual-output OTAs and grounded capacitors. <i>International Journal of Circuit Theory and Applications</i> , 1997 , 25, 69-80	2	18
91	Second-order OTA-C filters derived from Nawrocki-Klein biquad. <i>Electronics Letters</i> , 1998 , 34, 1449	1.1	17
90	Headspace Oxygen Concentration Measurement for Pharmaceutical Glass Bottles in Open-Path Optical Environment Using TDLAS/WMS. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 5828-5842	5.2	17
89	Exponential multistability of memristive Cohen-Grossberg neural networks with stochastic parameter perturbations. <i>Applied Mathematics and Computation</i> , 2020 , 386, 125483	2.7	15
88	Compact Millimeter-Wave Bandpass Filters Using Quasi-Lumped Elements in 0.13- μm (Bi)-CMOS Technology for 5G Wireless Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 3064-3073	4.1	14
87	Memristor-based neural network circuit with weighted sum simultaneous perturbation training and its applications. <i>Neurocomputing</i> , 2021 , 462, 581-590	5.4	14
86	Robust Multimode Function Synchronization of Memristive Neural Networks With Parameter Perturbations and Time-Varying Delays. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-15	7.3	13
85	Brain-like initial-boosted hyperchaos and application in biomedical image encryption. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	12
84	A 10-b Fourth-Order Quadrature Bandpass Continuous-Time $\Sigma\Delta$ Modulator With 33-MHz Bandwidth for a Dual-Channel GNSS Receiver. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1303-1314	4.1	11
83	Resonator-based universal ota-grounded capacitor filters. <i>International Journal of Circuit Theory and Applications</i> , 1995 , 23, 261-265	2	11
82	A Sub-GHz low-power transceiver with PAPR-tolerant power amplifier for 802.11ah applications 2015 ,		10
81	Universal third-order OTA-C filters. <i>International Journal of Electronics</i> , 1998 , 85, 597-609	1.2	10
80	Design of Miniaturized On-Chip Bandpass Filters Using Inverting-Coupled Inductors in (Bi)-CMOS Technology. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 647-657	3.9	10
79	Performance Analysis of Millimeter Wave Massive MIMO Systems in Centralized and Distributed Schemes. <i>IEEE Access</i> , 2018 , 6, 75482-75494	3.5	10
78	A Fully-Integrated Reconfigurable Dual-Band Transceiver for Short Range Wireless Communications in 180 nm CMOS. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 2572-2590	5.5	9
77	Determination of the impedance matching domain of passive LC ladder networks: Theory and implementation. <i>Journal of the Franklin Institute</i> , 1996 , 333, 141-155	4	9

76	A locally active discrete memristor model and its application in a hyperchaotic map. <i>Nonlinear Dynamics</i> , 2022 , 107, 2935	5	9
75	Design of Reconfigurable dB-Linear Variable-Gain Amplifier and Switchable-Order g_m -C Filter in 65-nm CMOS Technology. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 5148-5158 ⁴⁻¹		8
74	Automatic impedance matching and antenna tuning using quantum genetic algorithms for wireless and mobile communications. <i>IET Microwaves, Antennas and Propagation</i> , 2013 , 7, 693-700	1.6	8
73	Dynamic Virtual Page-Based Flash Translation Layer With Novel Hot Data Identification and Adaptive Parallelism Management. <i>IEEE Access</i> , 2018 , 6, 56200-56213	3.5	8
72	Design of Millimeter-Wave Bandpass Filters With Broad Bandwidth in Si-Based Technology. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1174-1181	2.9	7
71	. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2468-2475	6.8	7
70	Large Dynamic Range High Frequency Fully Differential CMOS Transconductance Amplifier. <i>Analog Integrated Circuits and Signal Processing</i> , 2003 , 34, 247-255	1.2	7
69	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 11166-11179	6.8	6
68	Note on two integrator loop OTA-C configurations. <i>Electronics Letters</i> , 1998 , 34, 1533	1.1	6
67	A General Traffic Flow Prediction Approach Based on Spatial-Temporal Graph Attention. <i>IEEE Access</i> , 2020 , 8, 153731-153741	3.5	6
66	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 939-950	3.9	5
65	Design for testability of high-order OTA-C filters. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 1859-1873	2	5
64	Energy-harvesting powered transmissions of bursty data packets with strict deadlines 2014 ,		5
63	A New Technique for the Design of Multi-Phase Voltage Controlled Oscillators. <i>Journal of Circuits, Systems and Computers</i> , 2017 , 26, 1750113	0.9	4
62	Interference Alignment for Cognitive Radio Communications and Networks: A Survey. <i>Journal of Sensor and Actuator Networks</i> , 2019 , 8, 50	3.8	4
61	General rational approximation of Gaussian wavelet series and continuous-time gm-C filter implementation. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 2006-2022	2	4
60	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
59	A differential space-time coding scheme for cooperative spectrum sensing in cognitive radio networks 2015 ,		4

58	The Capacity Performance of ASTC-MIMO-OFDM System in a Correlated Rayleigh Frequency-Selective Channel. <i>Wireless Personal Communications</i> , 2013 , 68, 1365-1376	1.9	4
57	PERFORMANCE ANALYSIS AND COMPARISON OF MULTIPLE LOOP FEEDBACK OTA-C FILTERS. <i>Journal of Circuits, Systems and Computers</i> , 2005 , 14, 685-720	0.9	4
56	LTE RSRP, RSRQ, RSSNR and local topography profile data for RF propagation planning and network optimization in an urban propagation environment. <i>Data in Brief</i> , 2018 , 21, 1724-1737	1.2	4
55	Improving Displacement Measurement for Evaluating Longitudinal Road Profiles. <i>IEEE Sensors Journal</i> , 2018 , 18, 3767-3779	4	4
54	Memristor-based affective associative memory neural network circuit with emotional gradual processes. <i>Neural Computing and Applications</i> , ¹	4.8	4
53	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
52	Oscillation-Based DFT for Second-Order Bandpass OTA-C Filters. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 1807-1824	2.2	3
51	Relay-Based Cooperative Spectrum Sensing with Improved Energy Detection In Cognitive Radio 2015 ,		3
50	Multistandard Analogue Baseband Filters for Software-Defined and Cognitive Radio Receivers. <i>Circuits, Systems, and Signal Processing</i> , 2011 , 30, 755-774	2.2	3
49	A 10-bit 200-MHz CMOS video DAC for HDTV applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2007 , 52, 133-138	1.2	3
48	Symbolic Circuit Analysis Using Mathematica. <i>International Journal of Electrical Engineering and Education</i> , 1994 , 31, 324-333	0.6	3
47	Flexible reconfigurable GNSS RF receiver for portable application of Internet of Things. <i>Microelectronics Journal</i> , 2020 , 106, 104912	1.8	3
46	Robust Statistics Evidence Based Secure Cooperative Spectrum Sensing for Cognitive Radio Networks 2020 ,		3
45	Electrical vehicle grid integration for demand response in distribution networks using reinforcement learning. <i>IET Electrical Systems in Transportation</i> ,	2.1	3
44	Design of Gm-C wavelet filter for on-line epileptic EEG detection. <i>IEICE Electronics Express</i> , 2019 , 16, 20190560-20190563	0.560-3	20190560-20190563
43	A Novel High Linearity and Low Power Folded CMOS LNA for UWB Receivers. <i>Journal of Circuits, Systems and Computers</i> , 2018 , 27, 1850047	0.9	3
42	Optimal Modeled Six-Phase Space Vector Pulse Width Modulation Method for Stator Voltage Harmonic Suppression. <i>Energies</i> , 2018 , 11, 2598	3.1	3
41	A multi-value 3D crossbar array nonvolatile memory based on pure memristors. <i>European Physical Journal: Special Topics</i> ,	2.3	3

40	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	1.3	2
39	Efficient evidence-based decision fusion scheme for cooperative spectrum sensing in cognitive radio networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020 , 31, e3901	1.9	2
38	A Gm-C complex IF filter using fully differential transconductor for dual-mode GNSS receiver 2017 ,		2
37	A 0.1B.0 GHz flexible SDR receiver with digitally assisted calibration in 65 nm CMOS. <i>Microelectronics Journal</i> , 2018 , 72, 58-73	1.8	2
36	A wideband linear tunable CDTA and its application in field programmable analogue array. <i>Analog Integrated Circuits and Signal Processing</i> , 2016 , 88, 465-483	1.2	2
35	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 1218-1229	6.9	2
34	Efficient space-frequency block coded pilot-aided channel estimation method for multiple-input-multiple-output orthogonal frequency division multiplexing systems over mobile frequency-selective fading channels. <i>IET Communications</i> , 2014 , 8, 841-851	1.3	2
33	A fully-integrated reconfigurable transceiver for narrowband wireless communication in 180nm CMOS 2015 ,		2
32	A Low Distortion Wide Tuning Range CMOS Fully-Differential Fourth-Order Bessel Filter. <i>Analog Integrated Circuits and Signal Processing</i> , 2004 , 41, 55-63	1.2	2
31	Bursting oscillations and bifurcation mechanism in a fully integrated piecewise-smooth chaotic system. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1737-1749	2.3	2
30	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
29	Space-time opportunistic interference alignment in cognitive radio networks 2016 ,		2
28	A Stochastic based Physical Layer Security in Cognitive Radio Networks: Cognitive Relay to Fusion Center 2019 ,		2
27	Systematic Design of Current-Mode Multiple-Loop Feedback Filters Based on a Single CDCTA. <i>IETE Journal of Research</i> , 2017 , 63, 435-447	0.9	1
26	A Stochastic Method to Physical Layer Security of an Amplify-and-Forward Spectrum Sensing in Cognitive Radio Networks: Secondary User to Relay 2019 ,		1
25	Duality of antennas and subcarriers in massive MIMO-OFDM downlink system. <i>Electronics Letters</i> , 2015 , 51, 1115-1117	1.1	1
24	Fixed Pattern Noise Reduction and Linearity Improvement in Time-Mode CMOS Image Sensors. <i>Sensors</i> , 2020 , 20,	3.8	1
23	A robust high-efficiency cross-coupled charge pump circuit without blocking transistors. <i>Analog Integrated Circuits and Signal Processing</i> , 2018 , 95, 395-401	1.2	1

22	Programmable analogue baseband filters for software defined and cognitive radio 2011 ,		1
21	Design of test stimuli and minimisation of ambiguity in fault diagnosis of analogue circuits with tolerance. <i>International Journal of Electronics</i> , 2011 , 98, 173-183	1.2	1
20	Data-fused method of fault diagnosis for analog circuits. <i>Analog Integrated Circuits and Signal Processing</i> , 2009 , 61, 87-92	1.2	1
19	An improved sphere decoder for MIMO systems 2012 ,		1
18	Performance comparison of high-order IFLF and LF linear phase lowpass OTA-C filters with and without gain boost. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 63, 451-463	1.2	1
17	HIGH-FREQUENCY LINEAR MULTIPLE-OUTPUT CMOS TRANSCONDUCTANCE AMPLIFIER FOR CURRENT-MODE FILTERS. <i>Journal of Circuits, Systems and Computers</i> , 2006 , 15, 701-717	0.9	1
16	Analysis of current conveyor error effects in signal-processing circuits. <i>International Journal of Circuit Theory and Applications</i> , 1996 , 24, 479-487	2	1
15	A novel resonant ZVS power converter with self-driven synchronous rectifier for low-voltage high-current applications. <i>IET Power Electronics</i> , 2021 , 14, 1397-1408	2.2	1
14	Design and Implementation of a Reconfigurable Wideband Radio Frequency Spectrum Analyzer With Image Rejection in the Digital Domain. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-16	5.2	1
13	A 90-GHz Asymmetrical Single-Pole Double-Throw Switch With >19.5-dBm 1-dB Compression Point in Transmission Mode Using 55-nm Bulk CMOS Technology. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-10	3.9	1
12	Time-efficient fault detection and diagnosis system for analog circuits. <i>Automatika</i> , 2018 , 59, 302-310	1.6	1
11	Spectrum Sensing of DVB-T2 Signals using a Low Computational Noise Power Estimation 2018 ,		1
10	Design and Implementation of a Re-Configurable Versatile Direct Digital Synthesis-Based Pulse Generator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-14	5.2	1
9	Memristive Cluster Based Compact High-Density Nonvolatile Memory Design and Application for Image Storage. <i>Micromachines</i> , 2022 , 13, 844	3.3	1
8	Design of programmable Gaussian-derived wavelet filter for wearable biomedical sensor. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2122-2137	2	0
7	High Efficiency Cross-Coupled Charge Pump Circuit with Four-Clock Signals. <i>Radioelectronics and Communications Systems</i> , 2018 , 61, 565-570	0.9	0
6	A W-Band SPDT Switch With 15-dBm P1dB in 55-nm Bulk CMOS. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4	2.6	0
5	Average Transmit Power of Adaptive ZF Very Large Multi-user and Multi-antenna Systems. <i>Wireless Personal Communications</i> , 2015 , 81, 1215-1232	1.9	

4	Wireless network requirements and solutions for the future circular collider: A hostile indoor environment. <i>China Communications</i> , 2021 , 18, 193-203	3
3	Low-power, high-linearity transconductor with a high tolerance for process and temperature variations. <i>IET Circuits, Devices and Systems</i> , 2020 , 14, 1295-1304	1.1
2	Guest Editorial Special Issue on the 2016 IEEE International Symposium on Circuits and Systems (ISCAS 2016). <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 2109-2111	3.9
1	Transmit Power Minimization for MIMO Systems of Exponential Average BER with Fixed Outage Probability. <i>Wireless Personal Communications</i> , 2016 , 90, 1951-1970	1.9