Herbert Ho-Ching Iu

List of Publications by Year in Descending Order

235 papers	4,308 citations	34 h-index	54 g-index
262 ext. papers	5,617 ext. citations	4.5 avg, IF	6.27 L-index

#	Paper	IF	Citations
235	FPGA Synthesis of Ternary Memristor-CMOS Decoders for Active Matrix Microdisplays. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-11	3.9	3
234	Complex dynamics of a bi-directional N-type locally-active memristor. *Communications in Nonlinear Science and Numerical Simulation*, **2022**, 105, 106086	3.7	2
233	Low-Variance Memristor-Based Multi-Level Ternary Combinational Logic. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-12	3.9	3
232	Complex Oscillations of Chua Corsage Memristor with Two Symmetrical Locally Active Domains. *Electronics (Switzerland)*, **2022**, 11, 665	2.6	2
231	A General Strategy for Kilogram-Scale Preparation of Highly Crystal-line Covalent Triazine Frameworks.. *Angewandte Chemie - International Edition*, **2022**, e202203327	16.4	2
230	Adaptive Synchronization of Fractional-Order Complex-Valued Neural Networks With Time-Varying Delays. *IEEE Access*, **2022**, 10, 45677-45688	3.5	3
229	Tri-valued memristor-based hyper-chaotic system with hidden and coexistent attractors. *Chaos, Solitons and Fractals*, **2022**, 159, 112177	9.3	2
228	A New Fault Diagnosis of Rolling Bearing Based on Markov Transition Field and CNN. *Entropy*, **2022**, 24, 751	2.8	2
227	Neuromorphic dynamics near the edge of chaos in memristive neurons. *Chaos, Solitons and Fractals*, **2022**, 160, 112241	9.3	1
226	Kernel Correntropy Conjugate Gradient Algorithms Based on Half-Quadratic Optimization. *IEEE Transactions on Cybernetics*, **2021**, 51, 5497-5510	10.2	11
225	Rapid, Ordered Polymerization of Crystalline Semiconducting Covalent Triazine Frameworks. *Angewandte Chemie - International Edition*, **2021**, 61, e202113926	16.4	3
224	Adaptive Filters With Robust Augmented Space Linear Model: A Weighted k-NN Method. *IEEE Transactions on Signal Processing*, **2021**, 1-1	4.8	3
223	Universal Dynamics Analysis of Locally-Active Memristors and Its Applications. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 1-13	3.9	2
222	An adaptive model predictive control strategy for a class of discrete-time linear systems with parametric uncertainty. *International Journal of Adaptive Control and Signal Processing*, **2021**, 35, 2389	2.8	
221	Neuromorphic Dynamics of Chua Corsage Memristor. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 1-14	3.9	7
220	Threshold-type memristor-based memory circuit. *International Journal of Circuit Theory and Applications*, **2021**, 49, 1515-1531	2	1
219	A novel linear matrix inequality-based robust event-triggered model predictive control for a class of discrete-time linear systems. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 4416-4435	3.6	1

#	Reference	IF	Cites
218	A Novel Non-Autonomous Chaotic System With Infinite 2-D Lattice of Attractors and Bursting Oscillations. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 1023-1027	3.5	5
217	An Autonomous Impedance Adaptation Strategy for Wireless Power Transfer System Using Phase-Controlled Switched Capacitors. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 2303-2316	5.6	5
216	Prosthesis Control Using Spike Rate Coding in the Retina Photoreceptor Cells **2021**,		1
215	Simple modelling of S-type NbOx locally active memristor. *Electronics Letters*, **2021**, 57, 630-632	1.1	1
214	Locally active memristor based oscillators: The dynamic route from period to chaos and hyperchaos. *Chaos*, **2021**, 31, 063114	3.3	3
213	The Simple Charge-Controlled Grounded/Floating Mem-Element Emulator. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 2177-2181	3.5	8
212	Synchronous Generator Rectification System Based on Double Closed-Loop Control of Backstepping and Sliding Mode Variable Structure. *Electronics (Switzerland)*, **2021**, 10, 1832	2.6	
211	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 4014-4026	8.9	7
210	Application of Event-Triggered Cubature Kalman Filter for Remote Nonlinear State Estimation in Wireless Sensor Network. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5133-5145	8.9	20
209	Blockchain-Based Electric Vehicle Incentive System for Renewable Energy Consumption. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 396-400	3.5	14
208	Impedance Modeling of DFIG Wind Farms With Various Rotor Speeds and Frequency Coupling. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 406-410	3.5	6
207	An MPC-Based Dual-Solver Optimization Method for DC Microgrids With Simultaneous Consideration of Operation Cost and Power Loss. *IEEE Transactions on Power Systems*, **2021**, 36, 936-947	7	9
206	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 68, 264-274	3.9	16
205	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 2512-2524	7.3	26
204	A Behavioral SPICE Model of a Binarized Memristor for Digital Logic Implementation. *Circuits, Systems, and Signal Processing*, **2021**, 40, 2682-2693	2.2	4
203	Fixed-Point Maximum Total Complex Correntropy Algorithm for Adaptive Filter. *IEEE Transactions on Signal Processing*, **2021**, 69, 2188-2202	4.8	1
202	Complex Shannon Entropy Based Learning Algorithm and Its Applications. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	0
201	Large-Signal Stability of Grid-Forming and Grid-Following Controls in Voltage Source Converter: A Comparative Study. *IEEE Transactions on Power Electronics*, **2021**, 36, 7832-7840	7.2	28

200	Implementation of Hodgkin-Huxley Neuron Model With the Novel Memristive Oscillator. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 2982-2986	3.5	3
199	Multi-bifurcation cascaded bursting oscillations and mechanism in a novel 3D non-autonomous circuit system with parametric and external excitation. *Nonlinear Dynamics*, **2021**, 105, 3699-3714	5	4
198	Realization of Low-Voltage and High-Current Rectifier Module Control System Based on Nonlinear Feed-Forward PID Control. *Electronics (Switzerland)*, **2021**, 10, 2138	2.6	1
197	Duty VV-MPTC for Post-Fault Eight Switch Three-Phase Inverter Fed Induction Motor Drives With Reduced Neutral Point Voltage Fluctuation. *IEEE Transactions on Power Electronics*, **2021**, 36, 11691-11700	7.2	1
196	Stability and Multiconstraint Operating Region of Grid-Connected Modular Multilevel Converter Under Grid Phase Disturbance. *IEEE Transactions on Power Electronics*, **2021**, 36, 12551-12564	7.2	3
195	A Novel Modeling Method of Floating Memory Elements and its Practical Implementation. *Wuli Xuebao/Acta Physica Sinica*, **2021**, 0-0	0.6	
194	Finite-Time Projective Synchronization of Stochastic Complex-Valued Neural Networks With Probabilistic Time-Varying Delays. *IEEE Access*, **2021**, 9, 44784-44796	3.5	1
193	Nonlinear circuits with parallel-/series-connected HP-type memory elements and their characteristic analysis. *International Journal of Circuit Theory and Applications*, **2021**, 49, 513-532	2	2
192	Experimental Study of Fractional-Order RC Circuit Model Using the Caputo and Caputo-Fabrizio Derivatives. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 1-11	3.9	6
191	General Modeling Method of Threshold-Type Multivalued Memristor and Its Application in Digital Logic Circuits. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2021**, 31,	2	3
190	A memcapacitor-based hyperchaotic conservative system.. *Chaos*, **2021**, 31, 123116	3.3	0
189	Modeling Simplification and Dynamic Behavior of N-Shaped Locally-Active Memristor Based Oscillator. *IEEE Access*, **2020**, 8, 75571-75585	3.5	11
188	A Real-Time Retinomorphic Simulator Using a Conductance-Based Discrete Neuronal Network **2020**,		2
187	An Online Parameters Monitoring Method for Output Capacitor of Buck Converter Based on Large-Signal Load Transient Trajectory Analysis. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 1-1	5.6	15
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185	Deadbeat Control for Single-Inductor Multiple-Output DC‐DC Converter With Effectively Reduced Cross Regulation. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3372-3381	5.6	12
184	A Behavioral Model of Digital Resistive Switching for Systems Level DNN Acceleration. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 956-960	3.5	4
183	Combined Sliding-Mode Control for the IFDBC Interfaced DC Microgrids With Power Electronic Loads. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3396-3410	5.6	5

182	Finite-Time Projective Synchronization of Fractional-Order Memristive Neural Networks with Mixed Time-Varying Delays. *Complexity*, **2020**, 2020, 1-27	1.6	3
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178	An Unscented Particle Filtering Approach to Decentralized Dynamic State Estimation for DFIG Wind Turbines in Multi-Area Power Systems. *IEEE Transactions on Power Systems*, **2020**, 35, 2670-2682	7	11
177	Simplified Four-Level Inverter-Based Single-Phase DSTATCOM Using Model Predictive Control. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3382-3395	5.6	1
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174	A New Modulation⊡Demodulation Approach to DC Power-line Data Transmission for SRG-Integrated Microgrid. *IEEE Transactions on Power Electronics*, **2020**, 35, 12370-12382	7.2	13
173	Pinning Synchronization via Intermittent Control for Memristive Cohen-Grossberg Neural Networks With Mixed Delays. *IEEE Access*, **2020**, 8, 55676-55687	3.5	3
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171	A Family of Binary Memristor-Based Low-Pass Filters With Controllable Cut-Off Frequency. *IEEE Access*, **2020**, 8, 60199-60209	3.5	2
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169	A Simple Floating Mutator for Emulating Memristor, Memcapacitor, and Meminductor. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 1334-1338	3.5	32
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162	Fast Voltage-Based MPPT Control for High Gain Switched Inductor DC-DC Boost Converters **2020**,		1
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160	On the Use of Memristive Hyperchaotic System to Design Color Image Encryption Scheme. *IEEE Access*, **2020**, 8, 182240-182248	3.5	3
159	S-Type Locally Active Memristor-Based Periodic and Chaotic Oscillators. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 5139-5152	3.9	19
158	An Integrated Transmission Expansion and Sectionalizing-Based Black Start Allocation of BESS Planning Strategy for Enhanced Power Grid Resilience. *IEEE Access*, **2020**, 8, 148968-148979	3.5	5
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153	An Adaptive Large Neighborhood Search for Solving Generalized Lock Scheduling Problem: Comparative Study With Exact Methods. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 21, 3344-3356	6.1	4
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150	MTPA Trajectory Tracking Control with On-line MRAS Parameter Identification for an IPMSM. *Journal of Electrical Engineering and Technology*, **2019**, 14, 2355-2366	1.4	8
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147	A third-order memristive Wien-bridge circuit and its integrable deformation **2019**, 93, 1		5

146	Two-Period Frame Transient Switching Control for Buck Converter Using Coupled-Inductor Auxiliary Circuit. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8040-8050	8.9	5
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141	. *IEEE Transactions on Power Systems*, **2019**, 34, 3941-3950	7	3
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139	A Nested Tensor Product Model Transformation. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 1-15	8.3	33
138	An Auxiliary-Parallel-Inductor-Based Sequence Switching Control to Improve the Load Transient Response of Buck Converters. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 2776-2784	8.9	6
137	Mitigating Line Frequency Instability of Boost PFC Converter Under Proportional Outer-Voltage Loop With Additional Third Current-Harmonic Feedforward Compensation. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2019**, 66, 4528-4541	3.9	3
136	Application of the Lyapunov Algorithm to Optimize the Control Strategy of Low-Voltage and High-Current Synchronous DC Generator Systems. *Electronics (Switzerland)*, **2019**, 8, 871	2.6	0
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133	An Optimized Memristor-Based Hyperchaotic System With Controlled Hidden Attractors. *IEEE Access*, **2019**, 7, 124641-124646	3.5	7
132	A memristor-meminductor-based chaotic system with abundant dynamical behaviors. *Nonlinear Dynamics*, **2019**, 96, 765-788	5	39
131	Central Difference Kalman Filter Approach Based Decentralized Dynamic States Estimator for DFIG Wind Turbines in Power Systems **2019**,		1
130	Chaotic Oscillator Using Coupled Memristive Pairs **2019**,		1
129	Advanced small-signal-based analytical approach to modelling high-order power converters. *IET Power Electronics*, **2019**, 12, 228-236	2.2	3

128	Dynamic surface control for discrete-time strict-feedback systems with network-induced time-varying delays and packets loss. *International Journal of Control*, **2019**, 1-10	1.5	2
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123	Constant-Frequency Capacitor Current Hysteresis Control of Buck Converter Using Reconstructed Ideal-Capacitor Voltage. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7916-7926	8.9	5
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121	Dynamic surface control for discrete-time strict-feedback systems with network-induced delays using predictive event-triggered strategy. *International Journal of Systems Science*, **2019**, 50, 337-350	2.3	4
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119	An online maximum power point capturing technique for high-efficiency power generation of solar photovoltaic systems. *Journal of Modern Power Systems and Clean Energy*, **2019**, 7, 357-368	4	9
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114	A Combined Analytical-Numerical Methodology for Predicting Subharmonic Oscillation in H-Bridge Inverters Under Double Edge Modulation. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2018**, 65, 2341-2351	3.9	5
113	Formulation and Implementation of Nonlinear Integral Equations to Model Neural Dynamics Within the Vertebrate Retina. *International Journal of Neural Systems*, **2018**, 28, 1850004	6.2	9
112	Simplified Load-Feedforward Control Design for Dual-Active-Bridge Converters With Current-Mode Modulation. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 2073-2085	5.6	29
111	Unique Modular Structure of Multicell High-Boost Converters With Reduced Component Currents. *IEEE Transactions on Power Electronics*, **2018**, 33, 7795-7804	7.2	14

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109	Energy-Efficient Anti-Flocking Control for Mobile Sensor Networks on Uneven Terrains. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 2022-2026	3.5	7
108	A Memristive Chaotic Oscillator With Increasing Amplitude and Frequency. *IEEE Access*, **2018**, 6, 12945-12950	3.5	72
107	A Family of Module-Integrated High Step-Up Converters With Dual Coupled Inductors. *IEEE Access*, **2018**, 6, 16256-16266	3.5	17
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100	Pulse Phase Shift Based Low-Frequency Oscillation Suppression for PT Controlled CCM Buck Converter. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 1465-1469	3.5	5
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87	An Impedance Network Boost Converter With a High-Voltage Gain. *IEEE Transactions on Power Electronics*, **2017**, 32, 6661-6665	7.2	37
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