

Pengjun Wang

List of Publications by Year in descending order

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65
papers

1,081
citations

516710
16
h-index

414414
32
g-index

65
all docs

65
docs citations

65
times ranked

775
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon three-mode (de)multiplexer based on cascaded asymmetric Y junctions. Optics Letters, 2016, 41, 2851.	3.3	112
2	Dimension decided Harris hawks optimization with Gaussian mutation: Balance analysis and diversity patterns. Knowledge-Based Systems, 2021, 215, 106425.	7.1	104
3	Chaos-Induced and Mutation-Driven Schemes Boosting Salp Chains-Inspired Optimizers. IEEE Access, 2019, 7, 31243-31261.	4.2	92
4	Efficient multi-population outpost fruit fly-driven optimizers: Framework and advances in support vector machines. Expert Systems With Applications, 2020, 142, 112999.	7.6	84
5	Multilevel threshold image segmentation with diffusion association slime mould algorithm and Renyi's entropy for chronic obstructive pulmonary disease. Computers in Biology and Medicine, 2021, 134, 104427.	7.0	79
6	Rationalized fruit fly optimization with sine cosine algorithm: A comprehensive analysis. Expert Systems With Applications, 2020, 157, 113486.	7.6	59
7	Random reselection particle swarm optimization for optimal design of solar photovoltaic modules. Energy, 2022, 239, 121865.	8.8	54
8	Random learning gradient based optimization for efficient design of photovoltaic models. Energy Conversion and Management, 2021, 230, 113751.	9.2	53
9	Performance optimization of salp swarm algorithm for multi-threshold image segmentation: Comprehensive study of breast cancer microscopy. Computers in Biology and Medicine, 2021, 139, 105015.	7.0	41
10	Adaptive Harris hawks optimization with persistent trigonometric differences for photovoltaic model parameter extraction. Engineering Applications of Artificial Intelligence, 2022, 109, 104608.	8.1	39
11	High-performance inertial impactation filters for particulate matter removal. Scientific Reports, 2018, 8, 4757.	3.3	36
12	Experimental demonstration of a broadband two-mode multi/demultiplexer based on asymmetric Y-junctions. Optics and Laser Technology, 2018, 100, 7-11.	4.6	32
13	A New Kernel Extreme Learning Machine Framework for Somatization Disorder Diagnosis. IEEE Access, 2019, 7, 45512-45525.	4.2	30
14	Delayed dynamic step shuffling frog-leaping algorithm for optimal design of photovoltaic models. Energy Reports, 2021, 7, 228-246.	5.1	30
15	Boosted hunting-based fruit fly optimization and advances in real-world problems. Expert Systems With Applications, 2020, 159, 113502.	7.6	26
16	Compact and Low-Insertion-Loss 1Å—N Power Splitter in Silicon Photonics. Journal of Lightwave Technology, 2021, 39, 6253-6259.	4.6	20
17	Implementation of All 27 Possible Univariate Ternary Logics With a Single ZnO Memristor. IEEE Transactions on Electron Devices, 2019, 66, 4710-4715.	3.0	15
18	Particle swarm optimized polarization beam splitter using metasurface-assisted silicon nitride Y-junction for mid-infrared wavelengths. Optics Communications, 2019, 451, 186-191.	2.1	14

19	Radiation-Hardened, Read-Disturbance-Free New-Quatro-10T Memory Cell for Aerospace Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1935-1939.	3.1	14
20	An enhanced Cauchy mutation grasshopper optimization with trigonometric substitution: engineering design and feature selection. Engineering With Computers, 2022, 38, 4583-4616.	6.1	13
21	Laminated polyacrylonitrile nanofiber membrane codoped with boehmite nanoparticles for efficient electrostatic capture of particulate matters. Nanotechnology, 2021, 32, 235601.	2.6	12
22	A 215-FÅ ² Bistable Physically Unclonable Function With an ACF of <0.005 and a Native Bit Instability of 2.05% in 65-nm CMOS Process. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 2290-2299.	3.1	10
23	A Multimode Configurable Physically Unclonable Function With Bit-Instability-Screening and Power-Gating Strategies. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 100-111.	3.1	10
24	Flexible-Grid Wavelength-Selective Switch Based on Silicon Microring Resonators With Interferometric Couplers. Journal of Lightwave Technology, 2018, 36, 3344-3353.	4.6	9
25	Elite dominance scheme ingrained adaptive salp swarm algorithm: a comprehensive study. Engineering With Computers, 0, , 1.	6.1	9
26	A multi-port low-power current mode PUF using MOSFET current-division deviation in 65 nm technology. Microelectronics Journal, 2017, 67, 169-175.	2.0	8
27	Compact and low-loss 1 Å– 3 polarization-insensitive optical power splitter using cascaded tapered silicon waveguides. Optics Letters, 2020, 45, 5596.	3.3	8
28	Non-volatile polarization-insensitive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1288" altimg="si178.svg">\langle \text{mml:mrow}>\langle \text{mml:mn}>1\langle \text{mml:mn}>\langle \text{mml:mo} \text{linebreak="goodbreak"} \text{linebreakstyle="after">\AA-\langle \text{mml:mo}>\langle \text{mml:mn}>2\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:math}>$ silicon optical switch using phase-change materials. Optics Communications, 2021, 479, 126407.	2.1	7
29	A 65nm/0.448ÅmW EEG processor with parallel architecture SVM and lifting wavelet transform for high-performance and low-power epilepsy detection. Computers in Biology and Medicine, 2022, 144, 105366.	7.0	6
30	Design of a Flexible-Grid 1 Å– 2 Wavelength-Selective Switch Using Silicon Microring Resonators. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	5
31	Direct-binary-search-optimized compact silicon-based polarization beam splitter using a pixelated directional coupler. Optics Communications, 2021, 484, 126670.	2.1	5
32	A Quantized Convolutional Neural Network Implemented With Memristor for Image Denoising and Recognition. Frontiers in Neuroscience, 2021, 15, 717222.	2.8	5
33	&p>&tTemperature Dependence Of AOS Thin Film Nano Transistors For Medical Applications&t/p>. International Journal of Nanomedicine, 2019, Volume 14, 8685-8691.	6.7	4
34	A 0.1-pj/b and ACF <0.04 Multiple-Valued PUF for Chip Identification Using Bit-Line Sharing Strategy in 65-nm CMOS. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 1043-1052.	3.1	4
35	PbS Quantum Dots Based on Physically Unclonable Function for Ultra High-Density Key Generation. Journal of Electronic Materials, 2019, 48, 7603-7607.	2.2	3

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37	Silicon-based flexible-grid mode- and wavelength-selective switch utilizing microring resonators and Y-junctions. Journal of Lightwave Technology, 2020, , 1-1.	4.6	3
38	Silicon Mode (de)Multiplexer Based on Cascaded Particle-Swarm-Optimized Counter-Tapered Couplers. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	3
39	Integrated Polarity Optimization of MPRM Circuits Based on Improved Multi-Objective Particle Swarm Optimization. Chinese Journal of Electronics, 2020, 29, 833-840.	1.5	3
40	Delay and area optimization for FPRM circuits based on MSPSO algorithm. , 2017, , .		2
41	An improved KFDD based reversible circuit synthesis method. The Integration VLSI Journal, 2019, 69, 251-265.	2.1	2
42	Modeling and Mechanism of Enhanced Performance of In-Ga-Zn-O Thin-Film Transistors with Nanometer Thicknesses under Temperature Stress. Journal of Physical Chemistry C, 2020, 124, 22793-22798.	3.1	2
43	SPIF design based on Camellia encryption algorithm. Microelectronics Journal, 2021, 112, 105051.	2.0	2
44	$0.67 \times 10^{-4} \text{ m}^2/\text{bitcell}$ two-transistor leakage-based physically unclonable function with native bit-instability of 0.89% at 65Ånm. Electronics Letters, 2020, 56, 1237-1239.	1.0	2
45	A Reliable Multi-information Entropy Glitch PUF Using Schmitt Trigger Sampling Method for IoT Security. , 2021, , .		2
46	High performance bistable weak physical unclonable function for IoT security. IEICE Electronics Express, 2018, 15, 20180879-20180879.	0.8	1
47	Plasmonic Feynman Gate Based on Suspended Graphene Nano-Ribbon Waveguides at THz Wavelengths. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	1
48	Design of SH Aging Sensor for Real Time and Application in Sensing Network. Canadian Journal of Electrical and Computer Engineering, 2020, 43, 73-82.	2.0	1
49	Matrix Encryption based Anti-Machine Learning Attack Algorithm for Strong PUF. , 2021, , .		1
50	Geometry dependent current-voltage characteristics of T-stub zigzag-edged graphene nanoribbon quantum waveguides. European Physical Journal B, 2022, 95, 1.	1.5	1
51	A highly reliable lightweight PUF circuit with temperature and voltage compensated for secure chip identification. , 2017, , .		0
52	Design of A Silicon Waveguide Admittance Detecting Circuit Using Quadratic Cross-Correlation Method. , 2018, , .		0
53	Area Optimization for FPRM Circuit Based on BDD. , 2018, , .		0
54	Detecting the Control Flow Attacks Based on Built-in Secure Register Bank. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Electrically Controlled Meta-Switch With Nonvolatile Functionality. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	0
56	Design of Aging Detection Sensor Based on Voltage Comparison. , 2019, , .		0
57	Design of the admittance detecting circuit for silicon waveguides using the capacitor-integration method. , 2019, , .		0
58	Design of Crosstalk NAND Gate Circuit Based on Interconnect Coupling Capacitance. , 2019, , .		0
59	A High-speed Dynamic Domino Full Adder Based on DICG Positive Feedback. , 2019, , .		0
60	Advanced Design and Electrical Properties Simulation of Two-Dimensional Photovoltaic Devices. Journal of Physical Chemistry C, 2019, 123, 11347-11350.	3.1	0
61	A Low Cost MST-FSM Obfuscation Method for Hardware IP Protection. Journal of Circuits, Systems and Computers, 2020, 29, 2050208.	1.5	0
62	TVDâ€PB logic circuit based on camouflaging circuit for IoT security. IET Circuits, Devices and Systems, 0, , .	1.4	0
63	A 0.004% resolution & SAT<1.8Â¼son-chip adaptive anti-aging system using cuckoo intelligence-based algorithm in 65Ânm CMOS. The Integration VLSI Journal, 2021, 78, 135-143.	2.1	0
64	A 65nm Reliable Near-Subthreshold Standard Cells Design Using Schmitt Trigger. , 2021, , .		0
65	An ACF<0.03 low-power software PUF based on the RISC-V processor for IoT security. Microelectronics Journal, 2022, 121, 105362.	2.0	0