

Jin He

List of Publications by Year in descending order

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67
papers

1,139
citations

430754

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434063

31
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all docs

67
docs citations

67
times ranked

1053
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photo-response performance of Cu ₂ O-based graded heterojunction optoelectronic devices with a Ga ₂ O ₃ buffer layer. Journal of Materials Chemistry C, 2022, 10, 5505-5513.	2.7	6
2	A Multi-Classification Hybrid Quantum Neural Network Using an All-Qubit Multi-Observable Measurement Strategy. Entropy, 2022, 24, 394.	1.1	16
3	EvoMBN: Evolving Multi-Branch Networks on Myocardial Infarction Diagnosis Using 12-Lead Electrocardiograms. Biosensors, 2022, 12, 15.	2.3	11
4	Graph representation-based machine learning framework for predicting electronic band structures of quantum-confined nanostructures. Science China Materials, 2022, 65, 3157-3170.	3.5	5
5	A Multilayer Neural Network Merging Image Preprocessing and Pattern Recognition by Integrating Diffusion and Drift Memristors. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 645-656.	2.6	26
6	A K-band high-gain power amplifier with slow-wave transmission-line transformer in 130-nm RF CMOS. International Journal of Circuit Theory and Applications, 2021, 49, 1347-1357.	1.3	3
7	Machine learning method for tight-binding Hamiltonian parameterization from ab-initio band structure. Npj Computational Materials, 2021, 7, .	3.5	30
8	Steep-Slope Transistors Based on Chiral Graphene Nanoribbons With Intrinsic Cold Source. IEEE Transactions on Electron Devices, 2021, 68, 4123-4128.	1.6	8
9	A K-Band Active Up/Down Bidirectional Mixer in 130-nm CMOS. , 2021, , .		4
10	MFB-CBRNN: A Hybrid Network for MI Detection Using 12-Lead ECGs. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 503-514.	3.9	78
11	A Real Time QRS Detection Algorithm Based on ET and PD Controlled Threshold Strategy. Sensors, 2020, 20, 4003.	2.1	21
12	Fully memristive spiking-neuron learning framework and its applications on pattern recognition and edge detection. Neurocomputing, 2020, 403, 80-87.	3.5	24
13	Asia-Pacific Lightning Location Network (APLLN) and Preliminary Performance Assessment. Remote Sensing, 2020, 12, 1537.	1.8	11
14	Multi-information fusion neural networks for arrhythmia automatic detection. Computer Methods and Programs in Biomedicine, 2020, 193, 105479.	2.6	45
15	The reconstruction of the symmetry between sublattices: a strategy to improve the transport properties of edge-defective graphene nanoribbon transistors. Physical Chemistry Chemical Physics, 2020, 22, 18265-18271.	1.3	3
16	Classification of VLF/LF Lightning Signals Using Sensors and Deep Learning Methods. Sensors, 2020, 20, 1030.	2.1	27
17	A D-band CMOS power amplifier for short-range data center communication. IEICE Electronics Express, 2020, 17, 20200159-20200159.	0.3	5
18	Acceleration of LSTM With Structured Pruning Method on FPGA. IEEE Access, 2019, 7, 62930-62937.	2.6	27

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19	A 2.5-Gb/s CMOS optical receiver with wide dynamic range using dual AGCs. Analog Integrated Circuits and Signal Processing, 2019, 101, 229-235.	0.9	0
20	Wave-Function Symmetry Mechanism of Quantum-Well States in Graphene Nanoribbon Heterojunctions. Physical Review Applied, 2019, 12, .	1.5	4
21	A K -Band High-Gain and Low-Noise Folded CMOS Mixer Using Current-Reuse and Cross-Coupled Techniques. IEEE Access, 2019, 7, 133218-133226.	2.6	18
22	A 22.5-30.5GHz CMOS Power Amplifier Using Pole-tuning Technique for 5G Applications. , 2019, , .		1
23	A novel ECG signal compression method using spindle convolutional auto-encoder. Computer Methods and Programs in Biomedicine, 2019, 175, 139-150.	2.6	44
24	Influence of Compact Memristors's Stability on Machine Learning. IEEE Access, 2019, 7, 47472-47478.	2.6	15
25	Monitor-Based Spiking Recurrent Network for the Representation of Complex Dynamic Patterns. International Journal of Neural Systems, 2019, 29, 1950006.	3.2	21
26	The MBPEP: a deep ensemble pruning algorithm providing high quality uncertainty prediction. Applied Intelligence, 2019, 49, 2942-2955.	3.3	18
27	Interface Coupling as a Crucial Factor for Spatial Localization of Electronic States in a Heterojunction of Graphene Nanoribbons. Physical Review Applied, 2019, 11, .	1.5	8
28	A K-Band High-Gain LNA in 0.13- μ m RF CMOS. , 2019, , .		3
29	Strain engineering of chevron graphene nanoribbons. Journal of Applied Physics, 2019, 125, .	1.1	7
30	Efficient Multispikes Learning for Spiking Neural Networks Using Probability-Modulated Timing Method. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1984-1997.	7.2	13
31	A hardware friendly unsupervised memristive neural network with weight sharing mechanism. Neurocomputing, 2019, 332, 193-202.	3.5	29
32	Activating impurity effect in edge nitrogen-doped chevron graphene nanoribbons. Journal of Physics Communications, 2018, 2, 045028.	0.5	8
33	A 28 GHz LNA using defected ground structure for 5G application. Microwave and Optical Technology Letters, 2018, 60, 1067-1072.	0.9	18
34	Micro-Strip Line 90° Phase Shifter with Double Ground Slots for D-Band Applications. Journal of Circuits, Systems and Computers, 2018, 27, 1850192.	1.0	3
35	Real-Time Multilead Convolutional Neural Network for Myocardial Infarction Detection. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1434-1444.	3.9	124
36	Dielectric Engineering With the Environment Material in 2-D Semiconductor Devices. IEEE Journal of the Electron Devices Society, 2018, 6, 325-331.	1.2	5

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37	Lossless medical image compression using geometry-adaptive partitioning and least square-based prediction. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 957-966.	1.6	16
38	Local Modification of Defective Edge Hamiltonian for Graphene Nanoribbon Devices. , 2018, , .		0
39	Back-Propagation Neural Network based on Analog Memristive Synapse. , 2018, , .		0
40	A D-Band Amplifier in 65 nm Bulk CMOS for Short-Distance Data Center Communication. <i>IEEE Access</i> , 2018, 6, 53191-53200.	2.6	8
41	Multiple-feature-branch convolutional neural network for myocardial infarction diagnosis using electrocardiogram. <i>Biomedical Signal Processing and Control</i> , 2018, 45, 22-32.	3.5	116
42	A broadband CMOS amplifier in D band using pole-tuning technique with T-type network. , 2018, , .		1
43	Restraining Strategy of the Stoneâ€Wales Defect Effect on Graphene Nanoribbon MOSFETs. <i>IEEE Electron Device Letters</i> , 2018, 39, 1092-1095.	2.2	11
44	Graphene Nanoribbon Tunnel Field-Effect Transistor via Segmented Edge Saturation. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2694-2701.	1.6	20
45	Threeâ€dimensional separate descendantâ€based SPIHT algorithm for fast compression of highâ€resolution medical image sequences. <i>IET Image Processing</i> , 2017, 11, 80-87.	1.4	19
46	Highly Sensitive Bilayer Phosphorene Nanoribbon Pressure Sensor Based on the Energy Gap Modulation Mechanism: A Theoretical Study. <i>IEEE Electron Device Letters</i> , 2017, 38, 1313-1316.	2.2	15
47	A Versatile and Accurate Compact Model of Memristor With Equivalent Resistor Topology. <i>IEEE Electron Device Letters</i> , 2017, 38, 1367-1370.	2.2	14
48	Multiâ€valued logic design methodology with double negative differential resistance transistors. <i>Micro and Nano Letters</i> , 2017, 12, 738-743.	0.6	5
49	A sub-terahertz multi-pixel imaging system with surface wave resonator for isolation. , 2017, , .		0
50	A D-band SPST switch using parallel-stripline swap with defected ground structure. <i>IEICE Electronics Express</i> , 2017, 14, 20171104-20171104.	0.3	6
51	Scaling Effect of Phosphorene Nanoribbon - Uncovering the Origin of Asymmetric Current Transport. <i>Scientific Reports</i> , 2016, 6, 38009.	1.6	11
52	Novel Strategy of Edge Saturation Hamiltonian for Graphene Nanoribbon Devices. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 4514-4520.	1.6	10
53	A Numerical Study on Graphene Nanoribbon Heterojunction Dual-Material Gate Tunnel FET. <i>IEEE Electron Device Letters</i> , 2016, 37, 1354-1357.	2.2	32
54	Novel Near-Lossless Compression Algorithm for Medical Sequence Images with Adaptive Block-Based Spatial Prediction. <i>Journal of Digital Imaging</i> , 2016, 29, 706-715.	1.6	17

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55	The Dual Effects of Gate Dielectric Constant in Tunnel FETs. IEEE Journal of the Electron Devices Society, 2016, 4, 445-450.	1.2	11
56	Accurate modeling of three-port center-tapped octagonal inductors for SPDT switch design in 0.13- μ m BiCMOS. , 2016, , .		1
57	Prior knowledge input neural network method for GFET description. Journal of Computational Electronics, 2016, 15, 911-918.	1.3	5
58	Energy gap tunable graphene antidot nanoribbon MOSFET: A uniform multiscale analysis from band structure to transport properties. Carbon, 2016, 101, 143-151.	5.4	27
59	A Fully-Integrated D-Band Frequency Synthesizer in 0.13- μ m SiGe BiCMOS. Journal of Circuits, Systems and Computers, 2016, 25, 1640010.	1.0	0
60	150-GHz SPDT switch with rat-race coupler topology in 0.13- μ m SiGe BiCMOS. , 2015, , .		0
61	Cross-Sectional Shape Effects of Gate-All-Around Nanowire Field-Effect Transistors. Journal of Computational and Theoretical Nanoscience, 2015, 12, 5171-5178.	0.4	0
62	Effects of Fin shape on sub-10Ånm FinFETs. Journal of Computational Electronics, 2015, 14, 515-523.	1.3	13
63	Band Structure Effects in Extremely Scaled Silicon Nanowire MOSFETs With Different Cross Section Shapes. IEEE Transactions on Electron Devices, 2015, 62, 3547-3553.	1.6	22
64	Negative differential resistance in graphene nanoribbon superlattice field-effect transistors. Micro and Nano Letters, 2015, 10, 400-403.	0.6	9
65	A Novel Barrier Controlled Tunnel FET. IEEE Electron Device Letters, 2014, 35, 798-800.	2.2	56
66	SVM-Based Synthetic Fingerprint Discrimination Algorithm and Quantitative Optimization Strategy. PLoS ONE, 2014, 9, e111099.	1.1	5
67	A <sc>24â€GHz</sc> active up/down bidirectional mixer in 130â€nm <sc>RF CMOS</sc>. International Journal of RF and Microwave Computer-Aided Engineering, 0, , .	0.8	0