

# Qijun Huang

## List of Publications by Year in descending order

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72  
papers

1,162  
citations

430874

18  
h-index

434195

31  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1044  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multi-Classification Hybrid Quantum Neural Network Using an All-Qubit Multi-Observable Measurement Strategy. <i>Entropy</i> , 2022, 24, 394.	2.2	16
2	EvoMBN: Evolving Multi-Branch Networks on Myocardial Infarction Diagnosis Using 12-Lead Electrocardiograms. <i>Biosensors</i> , 2022, 12, 15.	4.7	11
3	Graph representation-based machine learning framework for predicting electronic band structures of quantum-confined nanostructures. <i>Science China Materials</i> , 2022, 65, 3157-3170.	6.3	5
4	New ECG Compression Method for Portable ECG Monitoring System Merged with Binary Convolutional Auto-Encoder and Residual Error Compensation. <i>Biosensors</i> , 2022, 12, 524.	4.7	3
5	A Multilayer Neural Network Merging Image Preprocessing and Pattern Recognition by Integrating Diffusion and Drift Memristors. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021, 13, 645-656.	3.8	26
6	DMMAN: A two-stage audio-visual fusion framework for sound separation and event localization. <i>Neural Networks</i> , 2021, 133, 229-239.	5.9	13
7	A K-Band high-gain power amplifier with slow-wave transmission-line transformer in 130-nm RF CMOS. <i>International Journal of Circuit Theory and Applications</i> , 2021, 49, 1347-1357.	2.0	3
8	Memristor-Based Image Enhancement: High Efficiency and Robustness. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 602-609.	3.0	17
9	Steep-Slope Transistors Based on Chiral Graphene Nanoribbons With Intrinsic Cold Source. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4123-4128.	3.0	8
10	A method for determining D region ionosphere reflection height from lightning skywaves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 221, 105692.	1.6	8
11	A K-Band Active Up/Down Bidirectional Mixer in 130-nm CMOS. , 2021, , .		4
12	MFB-CBRNN: A Hybrid Network for MI Detection Using 12-Lead ECGs. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 503-514.	6.3	78
13	A Real Time QRS Detection Algorithm Based on ET and PD Controlled Threshold Strategy. <i>Sensors</i> , 2020, 20, 4003.	3.8	21
14	Asia-Pacific Lightning Location Network (APLLN) and Preliminary Performance Assessment. <i>Remote Sensing</i> , 2020, 12, 1537.	4.0	11
15	Multi-information fusion neural networks for arrhythmia automatic detection. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 193, 105479.	4.7	45
16	The reconstruction of the symmetry between sublattices: a strategy to improve the transport properties of edge-defective graphene nanoribbon transistors. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18265-18271.	2.8	3
17	Classification of VLF/LF Lightning Signals Using Sensors and Deep Learning Methods. <i>Sensors</i> , 2020, 20, 1030.	3.8	27
18	Acceleration of LSTM With Structured Pruning Method on FPGA. <i>IEEE Access</i> , 2019, 7, 62930-62937.	4.2	27

#	ARTICLE	IF	CITATIONS
19	Design of high-resolution quantization scheme with exp-Golomb code applied to compression of special images. <i>Journal of Visual Communication and Image Representation</i> , 2019, 65, 102684.	2.8	6
20	A 2.5-Gb/s CMOS optical receiver with wide dynamic range using dual AGCs. <i>Analog Integrated Circuits and Signal Processing</i> , 2019, 101, 229-235.	1.4	0
21	Wave-Function Symmetry Mechanism of Quantum-Well States in Graphene Nanoribbon Heterojunctions. <i>Physical Review Applied</i> , 2019, 12, .	3.8	4
22	A $K$ -Band High-Gain and Low-Noise Folded CMOS Mixer Using Current-Reuse and Cross-Coupled Techniques. <i>IEEE Access</i> , 2019, 7, 133218-133226.	4.2	18
23	A 22.5-30.5GHz CMOS Power Amplifier Using Pole-tuning Technique for 5G Applications. , 2019, , .		1
24	A novel ECG signal compression method using spindle convolutional auto-encoder. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 175, 139-150.	4.7	44
25	Influence of Compact Memristors's Stability on Machine Learning. <i>IEEE Access</i> , 2019, 7, 47472-47478.	4.2	15
26	Monitor-Based Spiking Recurrent Network for the Representation of Complex Dynamic Patterns. <i>International Journal of Neural Systems</i> , 2019, 29, 1950006.	5.2	21
27	The MBPEP: a deep ensemble pruning algorithm providing high quality uncertainty prediction. <i>Applied Intelligence</i> , 2019, 49, 2942-2955.	5.3	18
28	Interface Coupling as a Crucial Factor for Spatial Localization of Electronic States in a Heterojunction of Graphene Nanoribbons. <i>Physical Review Applied</i> , 2019, 11, .	3.8	8
29	A K-Band High-Gain LNA in 0.13- $\mu\text{m}$ RF CMOS. , 2019, , .		3
30	Strain engineering of chevron graphene nanoribbons. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	7
31	Efficient Multispikes Learning for Spiking Neural Networks Using Probability-Modulated Timing Method. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 1984-1997.	11.3	13
32	A hardware friendly unsupervised memristive neural network with weight sharing mechanism. <i>Neurocomputing</i> , 2019, 332, 193-202.	5.9	29
33	A 28 GHz LNA using defected ground structure for 5G application. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 1067-1072.	1.4	18
34	Micro-Strip Line $90^\circ$ Phase Shifter with Double Ground Slots for D-Band Applications. <i>Journal of Circuits, Systems and Computers</i> , 2018, 27, 1850192.	1.5	3
35	Real-Time Multilead Convolutional Neural Network for Myocardial Infarction Detection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1434-1444.	6.3	124
36	Dielectric Engineering With the Environment Material in 2-D Semiconductor Devices. <i>IEEE Journal of the Electron Devices Society</i> , 2018, 6, 325-331.	2.1	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.	2.8	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.	4.2	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.	5.7	116
42	Restraining Strategy of the Stoneâ€™s Wales Defect Effect on Graphene Nanoribbon MOSFETs. <i>IEEE Electron Device Letters</i> , 2018, 39, 1092-1095.	3.9	11
43	Graphene Nanoribbon Tunnel Field-Effect Transistor via Segmented Edge Saturation. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2694-2701.	3.0	20
44	Three-dimensional separate descendant-based SPIHT algorithm for fast compression of high-resolution medical image sequences. <i>IET Image Processing</i> , 2017, 11, 80-87.	2.5	19
45	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.	3.9	15
46	A Versatile and Accurate Compact Model of Memristor With Equivalent Resistor Topology. <i>IEEE Electron Device Letters</i> , 2017, 38, 1367-1370.	3.9	14
47	Multi-valued logic design methodology with double negative differential resistance transistors. <i>Micro and Nano Letters</i> , 2017, 12, 738-743.	1.3	5
48	A sub-terahertz multi-pixel imaging system with surface wave resonator for isolation. , 2017, , .		0
49	A D-band SPST switch using parallel-stripline swap with defected ground structure. <i>IEICE Electronics Express</i> , 2017, 14, 20171104-20171104.	0.8	6
50	Scaling Effect of Phosphorene Nanoribbon - Uncovering the Origin of Asymmetric Current Transport. <i>Scientific Reports</i> , 2016, 6, 38009.	3.3	11
51	Novel Strategy of Edge Saturation Hamiltonian for Graphene Nanoribbon Devices. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 4514-4520.	3.0	10
52	A Numerical Study on Graphene Nanoribbon Heterojunction Dual-Material Gate Tunnel FET. <i>IEEE Electron Device Letters</i> , 2016, 37, 1354-1357.	3.9	32
53	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.	2.9	17
54	The Dual Effects of Gate Dielectric Constant in Tunnel FETs. <i>IEEE Journal of the Electron Devices Society</i> , 2016, 4, 445-450.	2.1	11

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55	Accurate modeling of three-port center-tapped octagonal inductors for SPDT switch design in 0.13- $\mu$ m BiCMOS. , 2016, , .		1
56	Prior knowledge input neural network method for GFET description. Journal of Computational Electronics, 2016, 15, 911-918.	2.5	5
57	Energy gap tunable graphene antidot nanoribbon MOSFET: A uniform multiscale analysis from band structure to transport properties. Carbon, 2016, 101, 143-151.	10.3	27
58	150-GHz SPDT switch with rat-race coupler topology in 0.13- $\mu$ m SiGe BiCMOS. , 2015, , .		0
59	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
60	Effects of Fin shape on sub-10Ånm FinFETs. Journal of Computational Electronics, 2015, 14, 515-523.	2.5	13
61	Band Structure Effects in Extremely Scaled Silicon Nanowire MOSFETs With Different Cross Section Shapes. IEEE Transactions on Electron Devices, 2015, 62, 3547-3553.	3.0	22
62	Negative differential resistance in graphene nanoribbon superlattice field-effect transistors. Micro and Nano Letters, 2015, 10, 400-403.	1.3	9
63	High Precision Multicolorimetric Pyrometer With a Novel Photoelectric MOSFET. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 680-686.	4.7	2
64	A Novel Barrier Controlled Tunnel FET. IEEE Electron Device Letters, 2014, 35, 798-800.	3.9	56
65	Fast reconstruction with adaptive sampling in block compressed imaging. IEICE Electronics Express, 2014, 11, 20140056-20140056.	0.8	5
66	Hardware efficient architecture for compressed imaging. IEICE Electronics Express, 2014, 11, 20140562-20140562.	0.8	2
67	SVM-Based Synthetic Fingerprint Discrimination Algorithm and Quantitative Optimization Strategy. PLoS ONE, 2014, 9, e111099.	2.5	5
68	Effects of vacancy defects on graphene nanoribbon field effect transistor. Micro and Nano Letters, 2013, 8, 816-821.	1.3	29
69	An Implementation of SOPC-Based Neural Monitoring System. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2469-2475.	4.7	3
70	High-Performance FPGA Implementation of Discrete Wavelet Transform for Image Processing. , 2011, , .		8
71	A novel photoelectric MOSFET with AC output under constant illumination. Optical and Quantum Electronics, 2009, 41, 795-803.	3.3	1
72	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, , .	1.2	0