The End of Moore's Law: A New Beginning for Informat

Citation Report

#	ARTICLE	IF	CITATIONS
1	Continuous-Time Computational Aspects of Cyber-Physical Security. , 2016, , .		2
2	Wireless charging of mobile phones: PowerKiss and Powermat (2007-2014). International Journal of Technology Management, 2016, 70, 218.	0.2	0
3	Enterprise architecture: A competence-based approach to achieving agility and firm performance. International Journal of Production Economics, 2017, 193, 566-577.	5.1	61
4	NRAM status and prospects. , 2017, , .		4
5	Multi-chip technologies to unleash computing performance gains over the next decade. , 2017, , .		31
6	An Expanded Benchmarking of Beyond-CMOS Devices Based on Boolean and Neuromorphic Representative Circuits. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2017, 3, 101-110.	1.1	35
7	Principles and trends in quantum nano-electronics and nano-magnetics for beyond-CMOS computing. , 2017, , .		4
8	AutoTiering: Automatic data placement manager in multi-tier all-flash datacenter. , 2017, , .		34
9	Architecture and Dissipation: Thermodynamic Costs of General Purposeness in von Neumann Processors. , 2017, , .		2
10	Energy efficient computing and sensing in the Zettabyte era: From silicon to the cloud. , 2017, , .		28
11	Dissipation in neuromorphic computing: Fundamental bounds for feedforward networks. , 2017, , .		2
12	A Hardware/Software Stack for Heterogeneous Systems. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 243-259.	2.5	12
13	The Vision of Self-aware Reordering of Security Network Function Chains. , 2018, , .		5
14	Negative differential conductance in doped-silicon nanoscale devices with superconducting electrodes. Applied Nanoscience (Switzerland), 2018, 8, 1025-1030.	1.6	3
15	High performance iterative elemental product strategy in assembly-free FEM on GPU with improved occupancy. Computing (Vienna/New York), 2018, 100, 1273-1297.	3.2	5
16	Using block copolymers as infiltration sites for development of future nanoelectronic devices: Achievements, barriers, and opportunities. Microelectronic Engineering, 2018, 195, 74-85.	1.1	39
17	Performance and Power Efficient Massive Parallel Computational Model for HPC Heterogeneous Exascale Systems. IEEE Access, 2018, 6, 23095-23107.	2.6	26
18	Superconducting Magnetic Field Programmable Gate Array. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-12.	1.1	25

#	ARTICLE	IF	CITATIONS
19	NRAM: a disruptive carbon-nanotube resistance-change memory. Nanotechnology, 2018, 29, 134003.	1.3	10
20	Different Dielectrics for Source, Drain and Channel Regions of 1D Nanowire MOSFETs and TFETs. ECS Journal of Solid State Science and Technology, 2018, 7, N20-N28.	0.9	6
21	Liquid metal enabled combinatorial heat transfer science: toward unconventional extreme cooling. Frontiers in Energy, 2018, 12, 259-275.	1.2	43
22	A longer-lasting memory in layered semiconductors. Nature Nanotechnology, 2018, 13, 357-357.	15.6	2
23	Study of local currents in low dimension materials using complex injecting potentials. Journal of Applied Physics, 2018, 123, 165102.	1.1	5
24	Co- and contra-directional vertical coupling between ferromagnetic layers with grating for short-wavelength spin wave generation. New Journal of Physics, 2018, 20, 053021.	1.2	18
25	BCB Evaluation of High-Performance and Low-Leakage Three-Independent-Gate Field-Effect Transistors. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2018, 4, 35-43.	1.1	12
26	Tensions in specifying computing curricula for K-12: Towards a principled approach for objectives. IT - Information Technology, 2018, 60, 59-68.	0.6	6
27	Enriching lanthanide single-ion magnetism through symmetry and axiality. Chemical Communications, 2018, 54, 3685-3696.	2.2	99
28	Defect injection, Fault Modeling and Test Algorithm Generation Methodology for STT-MRAM. , 2018, , .		30
29	Exponential Innovation through Digital Transformation. , 2018, , .		9
30	Interactive Launch of 16,000 Microsoft Windows Instances on a Supercomputer. , 2018, , .		3
31	10T and 8T Full Adders Based on Ambipolar XOR Gates with SB-FinFETs. , 2018, , .		1
32	Modeling of Gate Stack Patterning for Advanced Technology Nodes: A Review. Micromachines, 2018, 9, 631.	1.4	27
33	Contemporary alternatives to traditional processor design in the post Moore's law era. , 2018, , .		2
34	WDM Weighted Sum in an 8x8 SOA-Based InP Cross-Connect for Photonic Deep Neural Networks. , 2018, , .		4
35	Error Resilient Neuromorphic Networks Using Checker Neurons. , 2018, , .		6
36	A Missing Active Device–Trancitor for a New Paradigm of Electronics. IEEE Access, 2018, 6, 46962-46967.	2.6	0

#	Article	IF	Citations
37	Programmable Nanophotonics for Computation. , 2018, , .		3
38	SFQmap: A Technology Mapping Tool for Single Flux Quantum Logic Circuits. , 2018, , .		27
39	Can series and parallel compositions improve on hammocks?. , 2018, , .		3
40	Beyond CMOS: Steep-Slope Devices and Energy Efficient Nanoelectronics. , 2018, , 281-305.		2
41	Design methodology of single-flux-quantum flip-flops composed of both 0- and π-shifted Josephson junctions. Superconductor Science and Technology, 2018, 31, 105003.	1.8	25
42	Landauerâ€™s limit and the physicality of information. European Physical Journal B, 2018, 91, 1.	0.6	5
43	Future Dielectric Materials for CNT Interconnects - Possibilities and Challenges. Journal of Nano Research, 2018, 52, 21-42.	0.8	13
44	RNS Hardware Matrix Multiplier for High Precision Neural Network Acceleration: "RNS TPU". , 2018, , .		16
45	Advances in Liquid Metal Science and Technology in Chip Cooling and Thermal Management. Advances in Heat Transfer, 2018, , 187-300.	0.4	40
46	The FinFET Breakthrough and Networks of Innovation in the Semiconductor Industry, 1980â€"2005: Applying Digital Tools to the History of Technology. Technology and Culture, 2018, 59, 251-288.	0.0	5
47	User- Friendly Compact Model of Magnetic Tunnel Junctions for Circuit Simulation Based on Switching Probability. , 2019, , .		3
48	VeriSFQ: A Semi-formal Verification Framework and Benchmark for Single Flux Quantum Technology. , 2019, , .		16
49	Self-Testing Analog Spiking Neuron Circuit. , 2019, , .		9
50	Recent advances in nano-materials for packaging of electronic devices. Journal of Materials Science: Materials in Electronics, 2019, 30, 13855-13868.	1.1	89
51	Time squeezing for tiny devices. , 2019, , .		6
52	Personal volunteer computing. , 2019, , .		19
53	Multiscale models of infection. Current Opinion in Biomedical Engineering, 2019, 11, 102-108.	1.8	6
54	ECAx. Transactions on Embedded Computing Systems, 2019, 18, 1-20.	2.1	3

#	Article	IF	Citations
55	Performance Analysis of Various Multi-and Many-Core Systems Centered on Memory. , 2019, , .		0
56	A Programmable Hyper-Dimensional Processor Architecture for Human-Centric IoT. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 439-452.	2.7	40
57	Challenges and the status of superconducting single flux quantum technology. , 2019, , .		9
58	Graphene and two-dimensional materials for silicon technology. Nature, 2019, 573, 507-518.	13.7	936
59	Reliability and energy efficient workflow scheduling in cloud environment. Cluster Computing, 2019, 22, 1283-1297.	3.5	71
60	Time Moore: Exploiting Moore's Law From The Perspective of Time. IEEE Solid-State Circuits Magazine, 2019, 11, 39-55.	0.5	33
61	A first-principles investigation of spintronics of nitrophosphorene doped with 3d transition metals. Journal of Applied Physics, 2019, 125, 233902.	1.1	2
62	Thickness‐Dependent Asymmetric Potential Landscape and Polarization Relaxation in Ferroelectric Hf$_x$Zr$_{1−x}$O$_2$ Thin Films through Interfacial Bound Charges. Advanced Electronic Materials, 2019, 5, 1900554.	2.6	13
64	Historical review of computer simulation of radiation effects in materials. Journal of Nuclear Materials, 2019, 520, 273-295.	1.3	121
65	Balanced Factorization and Rewriting Algorithms for Synthesizing Single Flux Quantum Logic Circuits. , 2019, , .		8
66	Nonlinear Computing and Nonlinear Artificial Intelligence. Understanding Complex Systems, 2019, , 44-53.	0.3	0
67	Characterization of a pseudo-DRAM Crossbar Computational Memory Array in 55nm CMOS : (Invited) Tj ETQq1 1 0.784314 rgBT /Overl		2
68	Ternary content-addressable memory with MoS2 transistors for massively parallel data search. Nature Electronics, 2019, 2, 108-114.	13.1	83
69	Investigating power efficiency of mergesort. Journal of Supercomputing, 2019, 75, 6277-6302.	2.4	4
70	Dynamic application reconfiguration on heterogeneous hardware. , 2019, , .		23
71	Mn$_2$CoReO$_6$: a robust multisublattice antiferromagnetic perovskite with small A-site cations. Chemical Communications, 2019, 55, 3331-3334.	2.2	15
72	An Industry and Government Perspective on Challenges and Open Problems in Signal Processing [SP Forum]. IEEE Signal Processing Magazine, 2019, 36, 125-131.	4.6	2
73	Plasmon-Enhanced Near-Field Optical Spectroscopy of Multicomponent Semiconductor Nanostructures. Optoelectronics, Instrumentation and Data Processing, 2019, 55, 488-494.	0.2	2

#	Article	IF	Citations
74	Study of gate source-drain overlap/gate-channel underlap in Heteojunction (50nm Ge channel) n-Double Gate TFET for different κ-spacer. , 2019, , .		5
75	Nonintrusive reduced order modeling framework for quasigeostrophic turbulence. Physical Review E, 2019, 100, 053306.	0.8	51
76	Low Temperature and Pressureless Microfluidic Electroless Bonding Process for Vertical Interconnections. , 2019, , .		3
77	Ultracompact and Low-Power Logic Circuits via Workfunction Engineering. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2019, 5, 94-102.	1.1	6
78	Uniform and ultrathin high-κ gate dielectrics for two-dimensional electronic devices. Nature Electronics, 2019, 2, 563-571.	13.1	204
79	Survey and Benchmarking of Machine Learning Accelerators. , 2019, , .		115
80	Ambipolar SB-FinFETs: A New Path to Ultra-Compact Sub-10 nm Logic Circuits. IEEE Transactions on Electron Devices, 2019, 66, 255-263.	1.6	7
81	Leveraging Tactile Internet Cognizance and Operation via IoT and Edge Technologies. Proceedings of the IEEE, 2019, 107, 364-375.	16.4	42
82	Three-Dimensional Monolithic FinFET-Based 8T SRAM Cell Design for Enhanced Read Time and Low Leakage. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 899-912.	2.1	13
83	Design of Flip-Flops Using Reversible DR Gate. Advances in Intelligent Systems and Computing, 2019, , 223-237.	0.5	0
84	Decision Making Photonics: Solving Bandit Problems Using Photons. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	1.9	14
86	Neuromorphic Photonics With Coherent Linear Neurons Using Dual-IQ Modulation Cells. Journal of Lightwave Technology, 2020, 38, 811-819.	2.7	56
87	Nonâ€Native Block Copolymer Thin Film Nanostructures Derived from Iterative Selfâ€Assembly Processes. Advanced Materials Interfaces, 2020, 7, 1901747.	1.9	17
88	Bias-free reconfigurable magnonic phase shifter based on a spin-current controlled ferromagnetic resonator. Journal Physics D: Applied Physics, 2020, 53, 105002.	1.3	6
90	Deep Neural Network Through an InP SOA-Based Photonic Integrated Cross-Connect. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-11.	1.9	81
91	Perspective of computational modeling of nanomaterials. Frontiers of Nanoscience, 2020, , 1-3.	0.3	0
92	Investigating the effect of quantized confining energy on the quantum coulomb blockade phenomena in single-electron transistor. Solid State Communications, 2020, 322, 114078.	0.9	5
93	Emerging Memristive Artificial Synapses and Neurons for Energyâ€Efficient Neuromorphic Computing. Advanced Materials, 2020, 32, e2004659.	11.1	175

#	ARTICLE	IF	CITATIONS
94	Electronic Devices Using Open Framework Materials. Chemical Reviews, 2020, 120, 8581-8640.	23.0	185
95	The Future of Work. , 2020, , 555-582.		1
96	Modeling of RRAM With Embedded Tunneling Barrier and Its Application in Logic in Memory. IEEE Journal of the Electron Devices Society, 2020, 8, 1390-1396.	1.2	1
97	From Memristive Materials to Neural Networks. ACS Applied Materials & Interfaces, 2020, 12, 54243-54265.	4.0	56
98	Toward Stable, General Machineâ€‹Learned Models of the Atmospheric Chemical System. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032759.	1.2	25
99	Growth of Single-crystalline Transition Metal Dichalcogenides Monolayers with Large-size. Chemical Research in Chinese Universities, 2020, 36, 511-517.	1.3	5
100	A Survey on Coarse-Grained Reconfigurable Architectures From a Performance Perspective. IEEE Access, 2020, 8, 146719-146743.	2.6	70
101	TEM cell for Testing Low-profile Integrated Circuits for EMC. , 2020, , .		12
102	Analytical Model of Electron Density and Its Machine Learning Inference. Journal of Chemical Information and Modeling, 2020, 60, 3831-3842.	2.5	17
103	Investigation of the intermetallic compounds growth in $10\mu m$ Cu/Sn and Cu/Ni/Sn microbumps under isothermal temperature aging. , 2020, , .		0
104	Multi-Shape Task Placement Algorithm Based on Low Fragmentation Resource Management on 2D Heterogeneous Dynamic Partial Reconfigurable Devices. IEEE Access, 2020, 8, 186362-186375.	2.6	2
105	Modeling and Characterization of Metastability in Single Flux Quantum (SFQ) Synchronizers. , 2020, , .		1
106	Fast Characterization of Input-Output Behavior of Non-Charge-Based Logic Devices by Machine Learning. Electronics (Switzerland), 2020, 9, 1381.	1.8	0
107	Electronically integrated, mass-manufactured, microscopic robots. Nature, 2020, 584, 557-561.	13.7	192
108	Experimental and theoretical study of capacitive memory of metal-oxide-semiconductor devices based on Er-doped In2O3 nano-column arrays. Journal of Applied Physics, 2020, 128, .	1.1	7
109	Phase Variations and Layer Epitaxy of 2D PdSe$_2$ Grown on 2D Monolayers by Direct Selenization of Molecular Pd Precursors. ACS Nano, 2020, 14, 11677-11690.	7.3	10
110	Optically Connected Memory for Disaggregated Data Centers. , 2020, , .		8
111	Hardware and Software Optimizations for Accelerating Deep Neural Networks: Survey of Current Trends, Challenges, and the Road Ahead. IEEE Access, 2020, 8, 225134-225180.	2.6	91

#	Article	IF	Citations
112	Development and Characterization of High-Quality HfO$_2$/InGaAs MOS Interface. , 0, , .		2
113	Quantum Spin-Wave Materials, Interface Effects and Functional Devices for Information Applications. Frontiers in Materials, 2020, 7, .	1.2	4
114	Based on the Network and Information Technology, the Actual Performance Evaluation System of Heavy Metal Removal Biomass Materials in Water Was Developed. Journal of Physics: Conference Series, 2020, 1574, 012096.	0.3	1
115	Towards real-time DNA biometrics using GPU-accelerated processing. Logic Journal of the IGPL, 2020, , .	1.3	2
116	Rediscovering Majority Logic in the Post-CMOS Era: A Perspective from In-Memory Computing. Journal of Low Power Electronics and Applications, 2020, 10, 28.	1.3	25
117	Electronic-photonic arithmetic logic unit for high-speed computing. Nature Communications, 2020, 11, 2154.	5.8	84
118	Single Flux Quantum (SFQ) First-in-First-Out (FIFO) Synchronizers: New Designs and Paradigms. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-8.	1.1	1
119	In-memory computing with ferroelectrics. Nature Electronics, 2020, 3, 237-238.	13.1	32
120	Dion–Jacobson Phase Perovskite Ca$_2$Na$_{n–3}$Nb$_n$O$_{3n+1}$$^{–}$ (n = 4–6) Nanosheets as High-Î^º Photovoltaic Electrode Materials in a Solar Water-Splitting Cell. ACS Applied Nano Materials, 2020, 3, 6367-6375.	2.4	12
121	Investigation of the Effects of 1/f Noise on Superconducting Circuits. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	0
122	Replica Exchange MCMC Hardware With Automatic Temperature Selection and Parallel Trial. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1681-1692.	4.0	12
123	The Demonstration of Carbon Nanotubes (CNTs) as Flip-Chip Connections in 3-D Integrated Circuits With an Ultralow Connection Resistance. IEEE Transactions on Electron Devices, 2020, 67, 2205-2207.	1.6	7
124	McPAT-Monolithic: An Area/Power/Timing Architecture Modeling Framework for 3-D Hybrid Monolithic Multicore Systems. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 2146-2156.	2.1	11
125	Interlayer Band–to–Band Tunneling and Negative Differential Resistance in van der Waals BP/InSe Field–Effect Transistors. Advanced Functional Materials, 2020, 30, 1910713.	7.8	65
126	A Review on Time Series Aggregation Methods for Energy System Models. Energies, 2020, 13, 641.	1.6	100
127	Origin of the Resistance-Area-Product Dependence of Spin-Transfer-Torque Switching in Perpendicular Magnetic Random-Access Memory Cells. Physical Review Applied, 2020, 13, .	1.5	22
128	The building blocks of a brain-inspired computer. Applied Physics Reviews, 2020, 7, .	5.5	117
129	Nanomagnet Logic: Computing by magnetic ordering. IEEE Nanotechnology Magazine, 2020, 14, 6-13.	0.9	5

#	Article	IF	Citations
130	Sol-Gel-Based Electrospray Synthesis of Barium Titanate Nanoparticles. IEEE Transactions on Nanobioscience, 2020, 19, 162-166.	2.2	7
131	Simple design of memristive counters and their applications in automatic irrigation system. IET Circuits, Devices and Systems, 2020, 14, 35-40.	0.9	2
132	Reversible fluxon logic: Topological particles allow ballistic gates along one-dimensional paths. Physical Review B, 2020, 101, .	1.1	17
133	A Density Metric for Semiconductor Technology [Point of View]. Proceedings of the IEEE, 2020, 108, 478-482.	16.4	25
134	A review: wafer bonding of Si-based semiconductors. Journal Physics D: Applied Physics, 2020, 53, 323001.	1.3	19
135	Reconfigurable Optical Boolean Function Generator Based on Electro-Optical Nonlinear Dynamics. Physical Review Applied, 2020, 13, .	1.5	0
136	Acoustic Phonons in Periodical GeSiSn/Si Nanostructures. Journal of Physics: Conference Series, 2020, 1461, 012005.	0.3	0
137	Nanoscaleâ€Dewettingâ€Based Direct Interconnection of Microelectronics for a Deterministic Assembly of Transfer Printing. Advanced Materials, 2020, 32, e1908422.	11.1	16
138	InAs/Si Hetero-Junction Channel to Enhance the Performance of DG-TFET with Graphene Nanoribbon: an Analytical Model. Silicon, 2021, 13, 1453-1459.	1.8	10
139	Computational study of 4d transition metals doped bismuthene for spintronics. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114464.	1.3	14
140	One molecule, two states: Single molecular switch on metallic electrodes. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1511.	6.2	9
141	Development of benchmark automation suite and evaluation of various high-performance computing systems. Cluster Computing, 2021, 24, 159-179.	3.5	2
142	Nanoarchitectonics on living cells. RSC Advances, 2021, 11, 18898-18914.	1.7	22
143	Data-Driven Application-Oriented Reliability Model of a High-Performance Computing System. IEEE Transactions on Reliability, 2022, 71, 603-615.	3.5	2
144	Extended gate with source splitted tunnel field effect transistor for improved device performance. Materials Today: Proceedings, 2021, 43, 3715-3719.	0.9	2
145	Analysis of the electron emission characteristics and working mechanism of a planar bottom gate vacuum field emission triode with a nanoscale channel. Nanoscale, 2021, 13, 14363-14370.	2.8	11
146	The Application of Information Technology in the Teaching and Training of Taekwondo in College Physical Education. , 2021, , .		3
147	Spin waves in $Y_3Fe_5O_{12}$-CoFeB spin-wave directional coupler. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 187501.	0.2	0

#	Article	IF	Citations
148	Formation of a Justified Strategy of Education in the Sphere of Information Security in the Digital Economy. Studies in Systems, Decision and Control, 2021, , 15-21.	0.8	1
149	The AI Gambit â€" Leveraging Artificial Intelligence to Combat Climate Change: Opportunities, Challenges, and Recommendations. SSRN Electronic Journal, 0, , .	0.4	14
150	Warpage Analysis and Prediction of the Advanced Fan-Out Technology Based on Process Mechanics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 2201-2213.	1.4	9
151	Optimized Implementation of the HPCG Benchmark on Reconfigurable Hardware. Lecture Notes in Computer Science, 2021, , 616-630.	1.0	9
152	The evolution of AI and the human-machine interface as a manager in Industry 4.0. , 2021, , 3-22.		2
153	System-Level Simulation for Integrated Phase-Change Photonics. Journal of Lightwave Technology, 2021, 39, 6392-6402.	2.7	6
154	Remote State Estimation With Smart Sensors Over Markov Fading Channels. IEEE Transactions on Automatic Control, 2022, 67, 2743-2757.	3.6	22
155	Transparent Control Flow Transfer between CPU and Accelerators for HPC. Electronics (Switzerland), 2021, 10, 406.	1.8	0
156	Advanced synchronization techniques for task-based runtime systems. , 2021, , .		11
157	Scaling Trends of Digital Single-Event Effects: A Survey of SEU and SET Parameters and Comparison With Transistor Performance. IEEE Transactions on Nuclear Science, 2021, 68, 124-148.	1.2	37
158	Autonomous Computing Materials. ACS Nano, 2021, 15, 3586-3592.	7.3	14
159	1.1 Unleashing the Future of Innovation. , 2021, , .		18
160	Theory and experimental verification of configurable computing with stochastic memristors. Scientific Reports, 2021, 11, 4218.	1.6	15
162	Compact Model of Magnetic Tunnel Junctions for SPICE Simulation Based on Switching Probability. IEICE Transactions on Electronics, 2021, E104.C, 121-127.	0.3	3
163	Memristive Artificial Synapses for Neuromorphic Computing. Nano-Micro Letters, 2021, 13, 85.	14.4	108
164	Loopapalooza: Investigating Limits of Loop-Level Parallelism with a Compiler-Driven Approach. , 2021, , .		0
165	Energy and Power Analysis of Novel Nano Communication System. , 2021, , .		0
166	0.5T0.5Râ€"An Ultracompact RRAM Cell Uniquely Enabled by van der Waals Heterostructures. IEEE Transactions on Electron Devices, 2021, 68, 2033-2040.	1.6	22

#	Article	IF	Citations
167	Predicting the Onset of Metal–Insulator Transitions in Transition Metal Oxides–A First Step in Designing Neuromorphic Devices. Chemistry of Materials, 2021, 33, 3187-3195.	3.2	9
168	Demonstration of an efficient single flux quantum logic circuit by introducing a local magnetic flux biasing. Superconductor Science and Technology, 2021, 34, 055007.	1.8	0
169	Analysis Classification Opinion of Policy Government Announces Cabinet Reshuffle on YouTube Comments Using 1D Convolutional Neural Networks. , 2021, , .		0
170	Scalability of Sulfur–Based Ovonic Threshold Selectors for 3D Stackable Memory Applications. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100084.	1.2	7
171	Ternary–Responsive Field–Effect Transistors and Multilevel Memories Based on Asymmetrically Functionalized Janus Few–Layer WSe$_2$. Advanced Functional Materials, 2021, 31, 2102721.	7.8	15
172	High-Performance Spectral Element Methods on Field-Programmable Gate Arrays : Implementation, Evaluation, and Future Projection. , 2021, , .		8
173	Matrix Engines for High Performance Computing: A Paragon of Performance or Grasping at Straws?. , 2021, , .		15
174	Perspective on the future of silicon photonics and electronics. Applied Physics Letters, 2021, 118, .	1.5	246
175	What Is Robotics? Why Do We Need It and How Can We Get It?. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 1-33.	7.5	17
176	Improved DC Performance Analysis of a Novel Asymmetric Extended Source Tunnel FET (AES-TFET) for Fast Switching Application. Silicon, 2022, 14, 3835-3841.	1.8	4
177	Research of Radiated Emissions of a Microcontroller Using Various Power Supplies. , 2021, , .		0
178	Mocarabe: High-Performance Time-Multiplexed Overlays for FPGAs. , 2021, , .		3
179	Iron Oxide-Coupled Graphite/Fe–Si Steel Structure for Analog Computing from Recycling Principle. Coatings, 2021, 11, 607.	1.2	1
180	Prospect of Spintronics in Neuromorphic Computing. Advanced Electronic Materials, 2021, 7, 2100465.	2.6	33
181	Measurement of Microcontroller Radiated Emissions at Different Operation Modes. , 2021, , .		1
182	Subsidiarity and Weak Coupling in Wireless Networks. , 2021, , .		0
183	Impact of source doping profile on the performance of CNT TFETs and MOSFETs: design aspects for fabrication tolerance. Semiconductor Science and Technology, 2021, 36, 075012.	1.0	2
184	Memristor-Based Neural Network Circuit of Emotion Congruent Memory With Mental Fatigue and Emotion Inhibition. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 606-616.	2.7	60

#	ARTICLE	IF	CITATIONS
185	Realizing privacy aspects in blockchain networks. Annales Des Telecommunications/Annals of Telecommunications, 2022, 77, 3-12.	1.6	3
186	Learned discretizations for passive scalar advection in a two-dimensional turbulent flow. Physical Review Fluids, 2021, 6, .	1.0	26
187	A Genetic Algorithm for Scheduling Splittable Tasks with Precedence Constraints. , 2021, , .		0
188	Thermal-Aware Design Space Exploration of 3-D Systolic ML Accelerators. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2021, 7, 70-78.	1.1	9
189	Order-of-magnitude differences in computational performance of analog Ising machines induced by the choice of nonlinearity. Communications Physics, 2021, 4, .	2.0	19
190	Applying Test Driven Development in the Big Data Domain â€" Lessons From the Literature. , 2021, , .		13
191	How Optical Technologies Can Innovate Intra Data Center Networks. , 2021, , .		3
192	Modeling and validation of ESR and frequency-stability of high-density nanostructured capacitors for embedded power converters. Microelectronic Engineering, 2021, 247, 111593.	1.1	2
193	A Marr's Threeâ€Level Analytical Framework for Neuromorphic Electronic Systems. Advanced Intelligent Systems, 2021, 3, 2100054.	3.3	3
194	Ultrathin Multibridge Channel Transistor Enabled by van der Waals Assembly. Advanced Materials, 2021, 33, e2102201.	11.1	21
195	Performance Study of Ambipolar Conduction Suppression for Dual-Gate Tunnel Field-Effect Transistors. Lecture Notes in Electrical Engineering, 2022, , 27-35.	0.3	2
196	Splitter Trees in Single Flux Quantum Circuits. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.1	22
198	Gateâ€Defined Quantum Confinement in CVD 2D WS$_2$. Advanced Materials, 2022, 34, e2103907.	11.1	18
199	CD-DFT: A Current-Difference Design-for-Testability to Detect Short Defects of STT-MRAM Under Process Variations. IEEE Transactions on Device and Materials Reliability, 2021, 21, 436-443.	1.5	4
200	Dopamine-Mediated Polymer Coating Facilitates Area-Selective Atomic Layer Deposition. ACS Applied Polymer Materials, 2021, 3, 4924-4931.	2.0	8
201	Posits and the state of numerical representations in the age of exascale and edge computing. Software - Practice and Experience, 2022, 52, 619-635.	2.5	4
202	Management Problems of Modern Logistics Information System Based on Data Mining. Mobile Information Systems, 2021, 2021, 1-9.	0.4	4
203	Thermodynamics and kinetics of glassy and liquid phase-change materials. Materials Science in Semiconductor Processing, 2021, 135, 106094.	1.9	7

#	Article	IF	Citations
204	Tuning the magnetic and electronic properties of monolayer VI3 by 3d transition metal doping: A first-principles study. Applied Surface Science, 2022, 571, 151208.	3.1	8
205	Metastability in Superconducting Single Flux Quantum (SFQ) Logic. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1990-2002.	3.5	3
206	Strategies for Democratization of Supercomputing: Availability, Accessibility and Usability of High Performance Computing for Education and Practice of Big Data Analytics. SSRN Electronic Journal, 0, , .	0.4	0
207	DC performance analysis of IIIâ€"V/Si heterostructure double gate triple material PiN tunneling graphene nanoribbon FET circuits with quantum mechanical effects. Journal of Computational Electronics, 2021, 20, 855-863.	1.3	3
209	Effect of Pocket Intrinsic Doping on Double and Triple Gate Tunnel Field Effect Transistors. Lecture Notes in Electrical Engineering, 2020, , 249-258.	0.3	3
210	Assembling your nanowire: an overview of composition tuning in ternary IIIâ€"V nanowires. Nanotechnology, 2021, 32, 072001.	1.3	18
211	Survey of Machine Learning Accelerators. , 2020, , .		74
212	p-transistors and p-circuits for Boolean and non-Boolean logic. , 2017, , .		1
213	Compact and inexpensive photonic Ising machines based on optoelectronic oscillators. , 2021, , .		0
214	Sub-Bandgap Photo-Response of Chromium Hyperdoped Black Silicon Photodetector Fabricated by Femtosecond Laser Pulses. IEEE Sensors Journal, 2021, 21, 25695-25702.	2.4	14
215	Energy-Efficient Instruction Delivery in Embedded Systems with Domain Wall Memory. IEEE Transactions on Computers, 2021, , 1-1.	2.4	2
216	A Logic Verification Framework for SFQ and AQFP Superconducting Circuits. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-11.	1.1	3
217	The AI gambit: leveraging artificial intelligence to combat climate changeâ€"opportunities, challenges, and recommendations. AI and Society, 2023, 38, 283-307.	3.1	57
218	Reversible training of waveguide-based AND/OR gates for optically driven artificial neural networks using photochromic molecules. Journal Physics D: Applied Physics, 2022, 55, 044002.	1.3	4
219	Photonic techniques for brain imaging. , 2018, , .		0
220	MBWU: Benefit Quantification for Data Access Function Offloading. Lecture Notes in Computer Science, 2019, , 198-213.	1.0	0
221	Toward FPGA-Based Semantic Caching for Accelerating Data Analysis with Spark and HDFS. Communications in Computer and Information Science, 2019, , 104-115.	0.4	1
222	Singularityâ€™s Potential for Sustainability and Environmental Health and Well-Being. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-11.	0.0	0

#	ARTICLE	IF	CITATIONS
223	Josephson Junctions for Digital Applications. Springer Series in Materials Science, 2019, , 611-701.	0.4	3
224	Materials Used in Manufacturing Electrical and Electronic Products. Issues in Environmental Science and Technology, 2019, , 33-65.	0.4	3
225	Performance Influence of Security Function Chain Ordering. , 2019, , .		2
226	Singularityâ€™s Potential for Sustainability and Environmental Health and Well-Being. Encyclopedia of the UN Sustainable Development Goals, 2020, , 636-647.	0.0	0
228	Modeling and Simulation of Spiking Neural Networks with Resistive Switching Synapses. SpringerBriefs in Applied Sciences and Technology, 2020, , 49-60.	0.2	2
229	Effect of partial coherence on dimensional measurement sensitivity for DUV scatterfield imaging microscopy. Optics Express, 2019, 27, 29938.	1.7	3
230	Parallel Stream Processing with MPI for Video Analytics and Data Visualization. Communications in Computer and Information Science, 2020, , 102-116.	0.4	2
231	Cloud Computing for Robotics and Surgery. , 2021, , 37-58.		1
232	Combination of Information Technology and College English in the Age of Media. Advances in Intelligent Systems and Computing, 2021, , 875-881.	0.5	0
233	A novel computational architecture for large-scale genomics. Nature Biotechnology, 2020, 38, 1239-1241.	9.4	4
234	Lossless Monolithically Integrated Photonic InP Neuron for All-Optical Computation. , 2020, , .		3
235	Two-terminal organic optoelectronic synapse based on poly(3-hexylthiophene) for neuromorphic computing. Organic Electronics, 2022, 100, 106390.	1.4	10
236	The Nature of Technology. Contemporary Trends and Issues in Science Education, 2020, , 21-32.	0.2	4
237	Accelerating artificial intelligence with silicon photonics. , 2020, , .		7
239	Neuromorphic computing through photonic integrated circuits. , 2020, , .		2
240	Performance Analysis of CNTFET-ReRAM based Crossbar Network for In-Memory Computing. , 2021, , .		1
242	Introduction to Quantum Computing. , 0, , .		7
243	AI Accelerator Survey and Trends. , 2021, , .		46

#	ARTICLE	IF	CITATIONS
244	A Decentralized Model for IoT Networks. Lecture Notes in Networks and Systems, 2022, , 581-589.	0.5	0
245	Single-Rail Adiabatic Logic for Energy-Efficient and CPA-Resistant Cryptographic Circuit in Low-Frequency Medical Devices. IEEE Open Journal of Nanotechnology, 2021, , 1-1.	0.9	2
246	Web-Based Urban Village Information System Development. E3S Web of Conferences, 2021, 328, 04031.	0.2	0
247	How to Use Information Technology to Build a Digital Media Art Teaching Resource Library. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 665-674.	0.5	0
248	Novel bipolar magnetic semiconductor materials formed by adsorption of methyl or halomethyles on the graphene: A spin-polarized density functional theory study. Applied Surface Science, 2022, 581, 152338.	3.1	7
249	Virtual Reality: what it offers, and how it can be used easily (and inexpensively) by health & social care tutors.. Journal of Practice Teaching and Learning, 2019, 16, 25-37.	0.1	1
250	Chronicles of Astra: Challenges and Lessons from the First Petascale Arm Supercomputer. , 2020, , .		7
251	SPICE-based Tool for Static CMOS Propagation Time Extraction. , 2021, , .		0
252	Memristor-Based Neural Network Circuit of Long-term Memory. , 2021, , .		1
253	Optically connected memory for disaggregated data centers. Journal of Parallel and Distributed Computing, 2022, 163, 300-312.	2.7	5
254	Strong Scaling of OpenACC enabled Nek5000 on several GPU based HPC systems. , 2022, , .		6
255	Harnessing optoelectronic noises in a photonic generative network. Science Advances, 2022, 8, eabm2956.	4.7	24
256	2D Materialsâ€Based Static Randomâ€Access Memory. Advanced Materials, 2022, 34, e2107894.	11.1	12
257	A Low-Cost Training Method of ReRAM Inference Accelerator Chips for Binarized Neural Networks to Recover Accuracy Degradation due to Statistical Variabilities. IEICE Transactions on Electronics, 2022, E105.C, 375-384.	0.3	1
258	Building a Quantum Engineering Undergraduate Program. IEEE Transactions on Education, 2022, 65, 220-242.	2.0	30
259	A Primer on Memory Persistency. Synthesis Lectures on Computer Architecture, 2022, 17, 1-115.	1.3	0
260	Broadband photonic tensor core with integrated ultra-low crosstalk wavelength multiplexers. Nanophotonics, 2022, 11, 4063-4072.	2.9	28
261	Memory Network Architecture for Packet Processing in Functions Virtualization. IEEE Transactions on Network and Service Management, 2022, , 1-1.	3.2	1

#	ARTICLE	IF	CITATIONS
263	A Flexible Memristor Model With Electronic Resistive Switching Memory Behavior and Its Application in Spiking Neural Network. IEEE Transactions on Nanobioscience, 2023, 22, 52-62.	2.2	16
265	Ab initio molecular-dynamics simulations of electronic structures and characteristics of Cu/SiO2/Pt memristive stack. , 2022, 18, 83-92.		0
266	Data Twinning. Statistical Analysis and Data Mining, 2022, 15, 598-610.	1.4	11
267	A DFT study of transition metal doped two-dimensional Bismuth (Bismuthene) for spintronics applications. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 015005.	0.7	6
268	Transparent conducting oxides: from all-dielectric plasmonics to a new paradigm in integrated photonics. Advances in Optics and Photonics, 2022, 14, 148.	12.1	34
269	Design Thinking in Transitional Period. Frontiers in Communication, 2022, 7, .	0.6	2
270	Recent advances in integrated optical directed logic operations for high performance optical computing: a review. Frontiers of Optoelectronics, 2022, 15, 1.	1.9	10
271	Dual function spin-wave logic gates based on electric field control magnetic anisotropy boundary. Applied Physics Letters, 2022, 120, 142405.	1.5	1
272	Ultrathin ferroic HfO2â€"ZrO2 superlattice gate stack for advanced transistors. Nature, 2022, 604, 65-71.	13.7	108
273	Dynamical memristors for higher-complexity neuromorphic computing. Nature Reviews Materials, 2022, 7, 575-591.	23.3	155
274	A facile fabrication of lead-free Cs2NaBiI6 double perovskite films for memory device application. Journal of Alloys and Compounds, 2022, 909, 164613.	2.8	26
275	Nonvolatile resistive memory and synaptic learning using hybrid flexible memristor based on combustion synthesized Mn-ZnO. Journal of Materials Science and Technology, 2022, 119, 123-130.	5.6	10
276	Benchmarking Vulkan vs OpenGL Rendering on Low-Power Edge GPUs. , 2021, , .		1
277	Tunable Chargeâ€Density PEDOT:PSS for Application in Postâ€Synaptic Organic Neuromorphic Electrodes. Advanced Electronic Materials, 2022, 8, .	2.6	3
278	Reliability aware green workflow scheduling using Îµ-fuzzy dominance in cloud. Complex & Intelligent Systems, 2022, 8, 1425-1443.	4.0	5
280	Two-Dimensional Field-Effect Transistor Sensors: The Road toward Commercialization. Chemical Reviews, 2022, 122, 10319-10392.	23.0	89
281	High-Îº perovskite membranes as insulators for two-dimensional transistors. Nature, 2022, 605, 262-267.	13.7	109
282	Classical-To-Quantum Transfer Learning for Spoken Command Recognition Based on Quantum Neural Networks. , 2022, , .		12

#	Article	IF	Citations
283	Unveiling the analogies between the atomic switch and NMDA receptor-based signal transmission of biological synapse. Japanese Journal of Applied Physics, 0, , .	0.8	0
285	Timing Constraints Imposed by Classical Digital Control Systems on Photonic Implementations of Measurement-Based Quantum Computing. IEEE Transactions on Quantum Engineering, 2022, 3, 1-20.	2.9	6
286	Ferroelectric polymers for neuromorphic computing. Applied Physics Reviews, 2022, 9, .	5.5	31
287	A Novel 2T2R CR-based TCAM Design for High-speed and Energy-efficient Applications. , 2022, , .		2
288	Quantum Technologies Need a Quantum Energy Initiative. PRX Quantum, 2022, 3, .	3.5	56
289	Improving Performance of Error-Tolerant Applications: A Case Study of Approximations on an Off-the-Shelf Neural Accelerator. , 2021, , .		0
290	Optical Memristors: Review of Switching Mechanisms and New Computing Paradigms. , 2022, , 219-244.		3
291	Rotaxane nanomachines in future molecular electronics. Nanoscale Advances, 2022, 4, 3418-3461.	2.2	9
292	Segment Routing with Digital Annealing. , 2022, , .		2
293	Programmable Skyrmion Logic Gates Based on Skyrmion Tunneling. Physical Review Applied, 2022, 17, .	1.5	8
294	Enhancement of device characteristics of CNT-TFET: Role of electrostatic doping and work function engineering. Ain Shams Engineering Journal, 2022, , 101848.	3.5	0
295	Micro-magnetoelastic modeling of Terfenol-D for spintronics. Journal of Applied Physics, 2022, 131, 234101.	1.1	1
296	Insect-inspired AI for autonomous robots. Science Robotics, 2022, 7, .	9.9	42
297	Exploiting waveguide junctions for the switching of transverse electromagnetic pulses of non-constant amplitude. , 2022, , .		0
298	Strategies for Democratization of Supercomputing: Availability, Accessibility and Usability of High Performance Computing for Education and Practice of Big Data Analytics. , 2022, 1, .		1
299	Filamentary TaO$_x$/HfO$_2$ ReRAM Devices for Neural Networks Training with Analog In-Memory Computing. Advanced Electronic Materials, 2022, 8, .	2.6	12
300	Emerging Memristive Devices for Brain-Inspired Computing and Artificial Perception. Frontiers in Nanotechnology, 0, 4, .	2.4	6
302	Superconducting single flux quantum (SFQ) technology for power-efficiency computing. CCF Transactions on High Performance Computing, 2022, 4, 182-210.	1.1	2

#	ARTICLE	IF	CITATIONS
303	Multivalued Logic for Optical Computing with Photonically Enabled Chiral Bio-organic Structures. ACS Nano, 2022, 16, 13684-13694.	7.3	6
304	Pattern formation dynamics in a Memristor Cellular Nonlinear Network structure with a numerically stable VO_2 memristor model. Japanese Journal of Applied Physics, 2022, 61, SM0807.	0.8	9
305	Exploration Framework for Synthesizable CGRAs Targeting HPC: Initial Design and Evaluation. , 2022, , .		4
306	Realization of Multifunctional Bosonic Magnon Transistor via Thermal Phonon Gating. Advanced Functional Materials, 2022, 32, .	7.8	1
307	Study on Er3+-Yb3+ co-doped La2O3â€"Al2O3 glasses for C-band optical waveguide amplifier with high luminous efficiency and low pump threshold. Ceramics International, 2022, 48, 32236-32240.	2.3	7
308	Controlling surface effects in extremely high aspect ratio gold plasmonic electrodes. Microelectronic Engineering, 2022, 263, 111856.	1.1	1
309	Evolving programmable computational metamaterials. , 2022, , .		3
310	TXV Technology: The cornerstone of 3D system-in-packaging. Science China Technological Sciences, 2022, 65, 2031-2050.	2.0	6
311	The basics of quantum computing for chemists. International Journal of Quantum Chemistry, 2022, 122, .	1.0	6
314	Biopolymer based artificial synapses enable linear conductance tuning and low-power for neuromorphic computing. Nanoscale, 2022, 14, 12898-12908.	2.8	1
315	LCHC-DFT: A Low-Cost High-Coverage Design-for-Testability Technique to Detect Hard-to-Detect Faults in STT-MRAMs in the Presence of Process Variations. IEEE Transactions on Device and Materials Reliability, 2022, 22, 477-487.	1.5	1
316	Design and implementation of a parsimonious neuromorphic PID for onboard altitude control for MAVs using neuromorphic processors. , 2022, , .		3
317	Query processing on tensor computation runtimes. Proceedings of the VLDB Endowment, 2022, 15, 2811-2825.	2.1	8
318	Smart IoT - Implementation of Neuromorphic Circuits. , 2022, , .		0
319	Sub-nJ per Decision Schmitt Trigger Comparator for Neuromorphic Spike Detection in 55 nm Technology. , 2022, , .		0
320	Enterprise Management Resource Protection System Based on Digital Information Technology. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	0.8	1
321	AI Acceleration Enabled by Nanoelectronic Memristive Devices. Journal of Physics: Conference Series, 2022, 2316, 012001.	0.3	0
322	Reconfigurable Compute-In-Memory on Field-Programmable Ferroelectric Diodes. Nano Letters, 2022, 22, 7690-7698.	4.5	17

#	Article	IF	Citations
323	Prospects and challenges of optical switching technologies for intra data center networks. Journal of Optical Communications and Networking, 2022, 14, 903.	3.3	7
324	Domain-Specific Architectures: Research Problems and Promising Approaches. Transactions on Embedded Computing Systems, 2023, 22, 1-26.	2.1	5
325	Enterprise Internal Control Audit in Information Technology Environment. Lecture Notes in Electrical Engineering, 2022, , 325-332.	0.3	0
326	AI and ML Accelerator Survey and Trends. , 2022, , .		21
327	A steep switching WSe2 impact ionization field-effect transistor. Nature Communications, 2022, 13, .	5.8	7
328	On physics-informed neural networks for quantum computers. Frontiers in Applied Mathematics and Statistics, 0, 8, .	0.7	3
329	All-atomristor logic gates. Nano Research, 2023, 16, 1688-1694.	5.8	4
330	Interactive and Immersive Auralization. Human-computer Interaction Series, 2023, , 77-113.	0.4	0
331	Universal Linear Optics for Ultra-Fast Neuromorphic Silicon Photonics Towards fJ/MAC and TMAC/sec/mm^2 Engines. IEEE Journal of Selected Topics in Quantum Electronics, 2022, , 1-15.	1.9	9
332	Benchmarking Monte Carlo simulations for simple quantum systems in epistemically-restricted phase-space representation. AIP Conference Proceedings, 2022, , .	0.3	0
333	Engineering high quality graphene superlattices via ion milled ultra-thin etching masks. Nature Communications, 2022, 13, .	5.8	5
334	Amplitudeâ€Controlled Electromagnetic Pulse Switching Using Waveguide Junctions for Highâ€Speed Computing Processes. Advanced Intelligent Systems, 2022, 4, .	3.3	6
335	Recent Developments in Low-Power AI Accelerators: A Survey. Algorithms, 2022, 15, 419.	1.2	4
336	Optical computing powers graph neural networks. Applied Optics, 0, , .	0.9	0
337	Van der Waalsâ€Interfaceâ€Dominated Allâ€2D Electronics. Advanced Materials, 2023, 35, .	11.1	13
338	Probing Gate Dielectrics for Two-Dimensional Electronics at Atomistic Scale Using Transmission Electron Microscope. IEEE Transactions on Electron Devices, 2023, 70, 1499-1508.	1.6	4
339	Universal Linear Optics Revisited: New Perspectives for Neuromorphic Computing With Silicon Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2023, 29, 1-16.	1.9	5
340	Analysis of The Manhattan Update Rule Algorithm. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
341	Memristive Circuit Design of Nonassociative Learning under Different Emotional Stimuli. Electronics (Switzerland), 2022, 11, 3851.	1.8	1
342	Metal–Organic Frameworks–Based Memristors: Materials, Devices, and Applications. Molecules, 2022, 27, 8888.	1.7	3
344	Two-dimensional optoelectronic devices for silicon photonic integration. Journal of Materiomics, 2023, 9, 551-567.	2.8	3
345	<scp>LambdaPP</scp>: Fast and accessible protein–specific phenotype predictions. Protein Science, 2023, 32, .	3.1	5
346	1.2-nJ/classification 2.4-mm^2 asynchronous wired-logic DNN processor using synthesized nonlinear function blocks in 0.18-µm CMOS. Japanese Journal of Applied Physics, 0, , .	0.8	0
347	Multimodal AutoML via Representation Evolution. Machine Learning and Knowledge Extraction, 2023, 5, 1-13.	3.2	1
348	Helical Structure Endows Liquid Crystal Planar Optics with a Customizable Working Band. Advanced Quantum Technologies, 2023, 6, .	1.8	10
349	Technology Prospects for Data-Intensive Computing. Proceedings of the IEEE, 2023, 111, 92-112.	16.4	5
350	Mitigation of Critical Delay in the Carry Skip Adders Using FinFET 18nm Technology. International Journal of Electrical & Electronics Research, 2022, 10, 1275-1280.	1.0	0
351	Germanium-and Silicon-Nanotransistor Designs by Electrical and Thermal Self-Consistent Analysis. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, , 1-1.	1.9	1
352	Fundamental energy cost of finite-time parallelizable computing. Nature Communications, 2023, 14, .	5.8	8
353	Freestanding Membranes for Unique Functionality in Electronics. ACS Applied Electronic Materials, 2023, 5, 690-704.	2.0	9
354	CIMAX-Compiler: An End-to-End ANN Compiler for Heterogeneous Computing-in-Memory Platform. , 2023, , .		2
355	H^{2}C-TM: A Hybrid High Coverage Test Method for Improving the Detection of HtD Faults in STT-MRAMs. IEEE Transactions on Device and Materials Reliability, 2023, , 1-1.	1.5	0
356	Integrated Microwave Photonics Coherent Processor for Massive-MIMO Systems in Wireless Communications. IEEE Journal of Selected Topics in Quantum Electronics, 2023, 29, 1-12.	1.9	1
357	Building energy model calibration using a surrogate neural network. Energy and Buildings, 2023, 289, 113057.	3.1	4
358	Plasma-induced growth mechanism of surface-state silver oxide in nanoscale for low-temperature bonding technology. Materials Characterization, 2023, 199, 112830.	1.9	0
359	Cooling performance of an active-passive hybrid composite phase change material (HcPCM) finned heat sink: Constant operating mode. International Journal of Heat and Mass Transfer, 2023, 207, 123973.	2.5	5

#	Article	IF	Citations
360	Low-frequency membrane tension measurement of framed membranes in semiconductor manufacturing. Sensors and Actuators A: Physical, 2023, 355, 114312.	2.0	1
361	Physics-Based Modeling and Validation of 2-D Schottky Barrier Field-Effect Transistors. IEEE Transactions on Electron Devices, 2023, 70, 2034-2041.	1.6	2
362	On-chip mechanical computing: status, challenges, and opportunities. , 2023, 2, 100038.		9
363	A steep-switching impact ionization-based threshold switching field-effect transistor. Nanoscale, 2023, 15, 5771-5777.	2.8	2
364	HRFP: Highly Relevant Frequent Patterns-Based Prefetching and Caching Algorithms for Distributed File Systems. Electronics (Switzerland), 2023, 12, 1183.	1.8	0
365	Research Challenges for Energy-Efficient Computing in Automated Vehicles. Computer, 2023, 56, 47-58.	1.2	2
366	Leveraging quantum computing for dynamic analyses of logical networks in systems biology. Patterns, 2023, 4, 100705.	3.1	3
367	Low-latency remote-offloading system for accelerator offloading. , 2023, , .		1
368	2D fin field-effect transistors integrated with epitaxial high-𝑘 gate oxide. Nature, 2023, 616, 66-72.	13.7	42
369	Fair DMA Scheduler for Low-Latency Accelerator Offloading. , 2022, , .		0
370	Polymeric Memristor Based Artificial Synapses with Ultra‐Wide Operating Temperature. Advanced Materials, 2023, 35, .	11.1	8
371	The Future Era of Computing: Automatic Computing. , 2023, , .		0
372	Formal Verification of Sequential Circuits in Superconducting Single Flux Quantum Technologies. IEEE Transactions on Applied Superconductivity, 2023, 33, 1-5.	1.1	0
373	Review of Wafer Surface Defect Detection Methods. Electronics (Switzerland), 2023, 12, 1787.	1.8	2
375	On the non-bonding valence band and the electronic properties of poly(triazine imide), a graphitic carbon nitride. Chemical Science, 2023, 14, 6269-6277.	3.7	3
376	Dynamical memristive neural networks and associative self-learning architectures using biomimetic devices. Frontiers in Neuroscience, 0, 17, .	1.4	1
384	Spiking Neural Networks for LPI Radar Waveform Recognition with Neuromorphic Computing. , 2023, , .		2
397	Novel Photosensitive Polyimides Compositions with Low Dielectric Property and Good Flexibility Corresponding to Redistribution Layers for High Speed Transmission Applications. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
398	Less for More: Reducing Intra-CGRA Connectivity for Higher Performance and Efficiency in HPC. , 2023, , .		0
399	Q2Logic: A Coarse-Grained FPGA Overlay targeting Schrödinger Quantum Circuit Simulations. , 2023, , .		0
404	Hardware-aware NAS by Genetic Optimisation with a Design Space Exploration Simulator. , 2023, , .		0
405	A Superconducting Quantum Chip Architecture Design Method for Quantum Programs. , 2023, , .		0
407	Design and Optimization of FeFET Based CiM for Neural Network Acceleration. , 2023, , .		0
418	Organic Resistive Memories for Neuromorphic Electronics. , 2023, , 60-120.		0
421	The Roadmap to a Quantum-Enabled Wireless Metaverse: Beyond the Classical Limits. , 2023, , .		1
422	Evaluation of the Performance Impact of SPM Allocation on a Novel Scratchpad Memory. , 2023, , .		0
426	Emerging Hardware Technologies and 3D System Integration for Ubiquitous Machine Intelligence. , 2023, , .		0
429	Dual-gate Ferroelectric Field-effect Transistors: An Emerging Computational Memory for Advanced Logic Operations. , 2023, , 223-239.		0
435	Die Vier-Tage-Woche. , 2023, , 107-113.		0
442	Fast Shared-Memory Barrier Synchronization for a 1024-Cores RISC-V Many-Core Cluster. Lecture Notes in Computer Science, 2023, , 241-254.	1.0	0
445	Metaverse for Public Sector. , 2023, , 91-114.		0
446	Comparative Analysis of Deep Learning Architectures for Masked Face Recognition: A Study of Performance and Robustness. , 2023, , .		0
451	Photosensitive Polyimides Compositions with Low Dielectric Property and Good Flexibility Corresponding to Redistribution Layers for Next Generation Heterogeneous Integration technologies. , 2023, , .		0
452	Optical computing enhanced wavefront sensing based on cascaded phase modulation layers. , 2023, , .		0
455	Low Power-Delay-Product Ternary Adder with Optimized Ternary Cycling Gates. , 2023, , .		0
463	Fog Computing for Deep Learning with Pipelines. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
468	Undergraduate Research in Quantum Computing: Lessons Learned from Developing Student Researchers. , 0, , .		0
470	Logical Review of CNTFET-based Ternary Universal Gates. , 2023, , .		0
472	The Roadmap of 2D Materials and Devices Toward Chips. Nano-Micro Letters, 2024, 16, .	14.4	0
481	Diffractive Optical Neural Networks. , 2024, , 73-94.		0