Hussein Nili

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/779909/publications.pdf

Version: 2024-02-01

40 papers

3,461 citations

331259 21 h-index 34 g-index

42 all docs

42 docs citations

times ranked

42

6237 citing authors

#	Article	IF	CITATIONS
1	Combinatorial optimization by weight annealing in memristive hopfield networks. Scientific Reports, 2021, 11, 16383.	1.6	10
2	4K-memristor analog-grade passive crossbar circuit. Nature Communications, 2021, 12, 5198.	5.8	97
3	The Impact of Device Uniformity on Functionality of Analog Passively-Integrated Memristive Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4090-4101.	3 . 5	3
4	Conduction mechanism effect on physical unclonable function using Al2O3/TiOX memristors. Chaos, Solitons and Fractals, 2021, 152, 111388.	2.5	15
5	Reset-voltage-dependent precise tuning operation of TiOx/Al2O3 memristive crossbar array. Applied Physics Letters, 2020, 117, .	1.5	35
6	A Strong Physically Unclonable Function With >2â;⺠CRPs and <1.4% BER Using Passive ReRAM Technology. IEEE Solid-State Circuits Letters, 2020, 3, 182-185.	1.3	8
7	Intrinsic Bounds for Computing Precision in Memristor-Based Vector-by-Matrix Multipliers. IEEE Nanotechnology Magazine, 2020, 19, 429-435.	1.1	13
8	Comprehensive Compact Phenomenological Modeling of Integrated Metal-Oxide Memristors. IEEE Nanotechnology Magazine, 2020, 19, 344-349.	1.1	19
9	ChipSecure., 2019, , .		9
10	An Ultrasensitive Silicon Photonic Ion Sensor Enabled by 2D Plasmonic Molybdenum Oxide. Small, 2019, 15, e1805251.	5 . 2	31
11	Towards the Development of Analog Neuromorphic Chip Prototype with 2.4M Integrated Memristors. , 2019, , .		10
12	Nano-Intrinsic True Random Number Generation: A Device to Data Study. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2615-2626.	3.5	19
13	Ultra-Low Power Physical Unclonable Function with Nonlinear Fixed-Resistance Crossbar Circuits. , 2019, , .		11
14	Hardware-intrinsic security primitives enabled by analogue state and nonlinear conductance variations in integrated memristors. Nature Electronics, 2018, 1, 197-202.	13.1	148
15	A Physical Unclonable Function With Redox-Based Nanoionic Resistive Memory. IEEE Transactions on Information Forensics and Security, 2018, 13, 437-448.	4.5	24
16	Predictive Analysis of 3D ReRAM-Based PUF for Securing the Internet of Things. , 2018, , .		4
17	Mixed-Signal Neuromorphic Inference Accelerators: Recent Results and Future Prospects. , 2018, , .		21
18	Spike-timing-dependent plasticity learning of coincidence detection with passively integrated memristive circuits. Nature Communications, 2018, 9, 5311.	5.8	153

#	Article	IF	Citations
19	RX-PUF: Low Power, Dense, Reliable, and Resilient Physically Unclonable Functions Based on Analog Passive RRAM Crossbar Arrays. , 2018, , .		16
20	Implementation of multilayer perceptron network with highly uniform passive memristive crossbar circuits. Nature Communications, 2018, 9, 2331.	5.8	281
21	Transparent amorphous strontium titanate resistive memories with transient photo-response. Nanoscale, 2017, 9, 14690-14702.	2.8	18
22	3D ReRAM arrays and crossbars: Fabrication, characterization and applications., 2017,,.		8
23	Utilizing I-V non-linearity and analog state variations in ReRAM-based security primitives. , 2017, , .		3
24	Highâ€Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. Advanced Functional Materials, 2016, 26, 91-100.	7.8	164
25	Microstructure and dynamics of vacancy-induced nanofilamentary switching network in donor doped SrTiO _{3â^'<i>x</i>} memristors. Nanotechnology, 2016, 27, 505210.	1.3	39
26	Donorâ€Induced Performance Tuning of Amorphous SrTiO ₃ Memristive Nanodevices: Multistate Resistive Switching and Mechanical Tunability. Advanced Functional Materials, 2015, 25, 3172-3182.	7.8	68
27	Stretchable and Tunable Microtectonic ZnO-Based Sensors and Photonics. Small, 2015, 11, 4532-4539.	5.2	54
28	Flexible metasurfaces and metamaterials: A review of materials and fabrication processes at microand nano-scales. Applied Physics Reviews, 2015, 2, 011303.	5. 5	303
29	Acoustic–Excitonic Coupling for Dynamic Photoluminescence Manipulation of Quasi <i>â€</i> 2D MoS ₂ Nanoflakes. Advanced Optical Materials, 2015, 3, 888-894.	3.6	39
30	Elemental Analogues of Graphene: Silicene, Germanene, Stanene, and Phosphorene. Small, 2015, 11, 640-652.	5.2	725
31	Nanoscale electro-mechanical dynamics of nano-crystalline platinum thin films: An <i>in situ</i> electrical nanoindentation study. Journal of Applied Physics, 2014, 116, .	1.1	13
32	Nanoscale Resistive Switching in Amorphous Perovskite Oxide (<i>aâ€</i> SrTiO ₃) Memristors. Advanced Functional Materials, 2014, 24, 6741-6750.	7.8	111
33	Reduced impurity-driven defect states in anodized nanoporous Nb2O5: the possibility of improving performance of photoanodes. Chemical Communications, 2013, 49, 6349.	2.2	28
34	Semiconductors: Twoâ€Dimensional Molybdenum Trioxide and Dichalcogenides (Adv. Funct. Mater.) Tj ETQq0 0	O rgBT /O	verlock 10 Tf
35	Alkali ratio control for lead-free piezoelectric thin films utilizing elemental diffusivities in RF plasma. CrystEngComm, 2013, 15, 7222.	1.3	26
36	Twoâ€Dimensional Molybdenum Trioxide and Dichalcogenides. Advanced Functional Materials, 2013, 23, 3952-3970.	7.8	443

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#	Article	IF	CITATIONS
37	In situ nanoindentation: Probing nanoscale multifunctionality. Progress in Materials Science, 2013, 58, 1-29.	16.0	90
38	Transition metal oxides – Thermoelectric properties. Progress in Materials Science, 2013, 58, 1443-1489.	16.0	302
39	Correlation between nanomechanical and piezoelectric properties of thin films: An experimental and finite element study. Materials Letters, 2013, 90, 148-151.	1.3	18
40	Transparent functional oxide stretchable electronics: micro-tectonics enabled high strain electrodes. NPG Asia Materials, 2013, 5, e62-e62.	3.8	67