

# Etienne Nowak

## List of Publications by Year in descending order

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18  
papers

379  
citations

933447

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h-index

1125743

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g-index

18  
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docs citations

18  
times ranked

546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model of the Weak Reset Process in HfO <sub>x</sub> Resistive Memory for Deep Learning Frameworks. IEEE Transactions on Electron Devices, 2021, 68, 4925-4932.	3.0	3
2	Illusion of large on-chip memory by networked computing chips for neural network inference. Nature Electronics, 2021, 4, 71-80.	26.0	15
3	Advances in Emerging Memory Technologies: From Data Storage to Artificial Intelligence. Applied Sciences (Switzerland), 2021, 11, 11254.	2.5	28
4	Nano-analytical investigation of the forming process in an HfO <sub>2</sub> -based resistive switching memory. Journal of Applied Physics, 2021, 130, .	2.5	5
5	Liquid Silicon: A Nonvolatile Fully Programmable Processing-in-Memory Processor With Monolithically Integrated ReRAM. IEEE Journal of Solid-State Circuits, 2020, 55, 908-919.	5.4	17
6	Endurance Statistical Behavior of Resistive Memories Based on Experimental and Theoretical Investigation. IEEE Transactions on Electron Devices, 2019, 66, 3318-3325.	3.0	19
7	14.3 A 43pJ/Cycle Non-Volatile Microcontroller with 4.7 $\mu$ s Shutdown/Wake-up Integrating 2.3-bit/Cell Resistive RAM and Resilience Techniques. , 2019, , .		13
8	Resistive RAM Endurance: Array-Level Characterization and Correction Techniques Targeting Deep Learning Applications. IEEE Transactions on Electron Devices, 2019, 66, 1281-1288.	3.0	43
9	Memory-Centric Neuromorphic Computing With Nanodevices. , 2019, , .		0
10	Hybrid $\epsilon$ RRAM toward Next Generation of Nonvolatile Memory: Coupling of Oxygen Vacancies and Metal Ions. Advanced Electronic Materials, 2019, 5, 1800658.	5.1	37
11	Digital Biologically Plausible Implementation of Binarized Neural Networks With Differential Hafnium Oxide Resistive Memory Arrays. Frontiers in Neuroscience, 2019, 13, 1383.	2.8	51
12	Experimental Investigation of 4-kb RRAM Arrays Programming Conditions Suitable for TCAM. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2599-2607.	3.1	59
13	<i>(Invited) </i>Resistive Memories (RRAM) Variability: Challenges and Solutions. ECS Transactions, 2018, 86, 35-47.	0.5	22
14	Optimizing Programming Energy for Improved RRAM Reliability for High Endurance Applications. , 2018, , .		6
15	Phase-Change Memory: Performance, Roles and Challenges. , 2018, , .		8
16	Role of synaptic variability in resistive memory-based spiking neural networks with unsupervised learning. Journal Physics D: Applied Physics, 2018, 51, 444002.	2.8	21
17	Sub-pJ consumption and short latency time in RRAM arrays for high endurance applications. , 2018, , .		22
18	Novel Computing Method for Short Programming Time and Low Energy Consumption in HfO <sub>2</sub> Based RRAM Arrays. IEEE Journal of the Electron Devices Society, 2018, 6, 696-702.	2.1	10