

Fabien Alibart

List of Publications by Year in descending order

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18
papers

1,877
citations

933264

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940416

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docs citations

18
times ranked

2293
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-Inspired Adaptive Sensing through Electropolymerization of Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, 2100891.	2.6	10
2	Exploiting Non-idealities of Resistive Switching Memories for Efficient Machine Learning. <i>Frontiers in Electronics</i> , 2022, 3, .	2.0	6
3	P-CRITICAL: a reservoir autoregulation plasticity rule for neuromorphic hardware. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 024007.	2.8	3
4	Theoretical modeling of dendrite growth from conductive wire electro-polymerization. <i>Scientific Reports</i> , 2022, 12, 6395.	1.6	1
5	Oxygen vacancy engineering of TaO _x -based resistive memories by Zr doping for improved variability and synaptic behavior. <i>Nanotechnology</i> , 2021, 32, 405202.	1.3	6
6	Dendritic Organic Electrochemical Transistors Grown by Electropolymerization for 3D Neuromorphic Engineering. <i>Advanced Science</i> , 2021, 8, e2102973.	5.6	22
7	In-Memory Vector-Matrix Multiplication in Monolithic Complementary Metal-Oxide-Semiconductor-Memristor Integrated Circuits: Design Choices, Challenges, and Perspectives. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000115.	3.3	100
8	Neuromorphic Time-Dependent Pattern Classification with Organic Electrochemical Transistor Arrays. <i>Advanced Electronic Materials</i> , 2018, 4, 1800166.	2.6	42
9	Light-Stimulatable Molecules/Nanoparticles Networks for Switchable Logical Functions and Reservoir Computing. <i>Advanced Functional Materials</i> , 2018, 28, 1801506.	7.8	14
10	Interfacial versus filamentary resistive switching in TiO ₂ and HfO ₂ devices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	0.6	54
11	Utilizing NDR effect to reduce switching threshold variations in memristive devices. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 199-202.	1.1	10
12	Pattern classification by memristive crossbar circuits using ex situ and in situ training. <i>Nature Communications</i> , 2013, 4, 2072.	5.8	501
13	High precision tuning of state for memristive devices by adaptable variation-tolerant algorithm. <i>Nanotechnology</i> , 2012, 23, 075201.	1.3	447
14	Analog-input analog-weight dot-product operation with Ag/a-Si/Pt memristive devices. , 2012, , .		7
15	Thermophoresis/diffusion as a plausible mechanism for unipolar resistive switching in metal-oxide-metal memristors. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 509-518.	1.1	169
16	A Memristive Nanoparticle/Organic Hybrid Synapstor for Neuroinspired Computing. <i>Advanced Functional Materials</i> , 2012, 22, 609-616.	7.8	163
17	An Organic Nanoparticle Transistor Behaving as a Biological Spiking Synapse. <i>Advanced Functional Materials</i> , 2010, 20, 330-337.	7.8	320
18	Mitigating State-Drift in Memristor Crossbar Arrays for Vector Matrix Multiplication. , 0, , .		2