

Fabien Alibart

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

1,877
citations

933264

10
h-index

940416

16
g-index

18
all docs

18
docs citations

18
times ranked

2293
citing authors

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