## Giant Ferroelectric Resistance Switching Controlled by Lowâ€Power Neuromorphic Inâ€Memory Computing

Advanced Materials 33, e2008709 DOI: 10.1002/adma.202008709

**Citation Report** 

CITATION REDORT

#	Article	IF	CITATIONS
1	A Marr's Three‣evel Analytical Framework for Neuromorphic Electronic Systems. Advanced Intelligent Systems, 2021, 3, 2100054.	3.3	3
2	Neuromorphic computing: Devices, hardware, and system application facilitated by two-dimensional materials. Applied Physics Reviews, 2021, 8, .	5.5	39
3	Progress and Challenges for Memtransistors in Neuromorphic Circuits and Systems. Advanced Materials, 2022, 34, e2108025.	11.1	40
4	Multi-Terminal Memristive Devices Enabling Tunable Synaptic Plasticity in Neuromorphic Hardware: A Mini-Review. Frontiers in Nanotechnology, 2021, 3, .	2.4	2
5	Electronic and Photoelectronic Memristors Based on 2D Materials. Advanced Electronic Materials, 2022, 8, 2101099.	2.6	28
6	Multilayer Reservoir Computing Based on Ferroelectric αâ€In <sub>2</sub> Se <sub>3</sub> for Hierarchical Information Processing. Advanced Materials, 2022, 34, e2108826.	11.1	65
7	Ferroelectric memory based on two-dimensional materials for neuromorphic computing. Neuromorphic Computing and Engineering, 2022, 2, 022001.	2.8	20
8	Interfacial Ionâ€Trapping Electrolyteâ€Gated Transistors for Highâ€Fidelity Neuromorphic Computing. Advanced Functional Materials, 2022, 32, .	7.8	12
9	Phase/size dual controlled 2D semiconductor In2X3 (X = S, Se, Te) for saturable absorption modulation. Nano Research, 2022, 15, 5633-5639.	5.8	5
10	Negative Capacitance and Switching Dynamics Control Via Non-Ferroelectric Elements. ACS Applied Energy Materials, 2022, 5, 3307-3318.	2.5	0
11	Design of Functionally Stacked Channels of Oxide Thin-Film Transistors to Mimic Precise Ultralow-Light-Irradiated Synaptic Weight Modulation. Micromachines, 2022, 13, 526.	1.4	1
12	Unraveling the origin of ferroelectric resistance switching through the interfacial engineering of layered ferroelectric-metal junctions. Nature Communications, 2021, 12, 7291.	5.8	26
13	Activating Silent Synapses in Sulfurized Indium Selenide for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2021, 13, 60209-60215.	4.0	10
14	High- <i>T</i> <sub>C</sub> Two-Dimensional Ferroelectric CuCrS <sub>2</sub> Grown <i>via</i> Chemical Vapor Deposition. ACS Nano, 2022, 16, 8141-8149.	7.3	23
15	Integrated Memory Devices Based on 2D Materials. Advanced Materials, 2022, 34, e2201880.	11.1	33
16	Ferroelectric polymers for neuromorphic computing. Applied Physics Reviews, 2022, 9, .	5.5	31
17	Nonvolatile Ferroelectric Memory with Lateral β/α/β In <sub>2</sub> Se <sub>3</sub> Heterojunctions. ACS Applied Materials & Interfaces, 2022, 14, 25693-25700.	4.0	13
18	Computational understanding role of vacancies and distortions in wurtzite ferroelectric memory materials: implications for device miniaturization. Materials Advances, 2022, 3, 5532-5539.	2.6	2

#	Article	IF	CITATIONS
19	Ferroelectric coupling for dual-mode non-filamentary memristors. Applied Physics Reviews, 2022, 9, .	5.5	12
20	Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. Matter, 2022, 5, 1999-2014.	5.0	3
21	Twoâ€Terminal Selfâ€Gating Randomâ€Access Memory Based on Partially Aligned 2D Heterostructures. Advanced Electronic Materials, 2022, 8, .	2.6	1
22	Twoâ€dimensional In <sub>2</sub> Se <sub>3</sub> : A rising advanced material for ferroelectric data storage. InformaÄnÃ-Materiály, 2022, 4, .	8.5	43
23	Twoâ€Dimensional Perovskiteâ€Gated AlGaN/GaN Highâ€Electronâ€Mobilityâ€Transistor for Neuromorphic Vision Sensor. Advanced Science, 2022, 9, .	5.6	31
24	Resistive switching in 2D bismuth oxyhalide nanosheets for nonvolatile memory and emulation of leaky integrate-and-fire functions. Materials and Design, 2022, , 111090.	3.3	3
25	Highly Linear and Symmetric Synaptic Memtransistors Based on Polarization Switching in Twoâ€Đimensional Ferroelectric Semiconductors. Small, 2022, 18, .	5.2	21
26	Heterostructures of 2D materials and their applications in biosensing. Progress in Materials Science, 2023, 132, 101024.	16.0	18
27	Heterosynaptic Plasticity Achieved by Highly Anisotropic Ionic Migration in Layered Li <i><sub>x</sub></i> MoO <sub>3</sub> for Neuromorphic Application. Advanced Electronic Materials, 2022, 8, .	2.6	4
28	Ferroelectrics-Integrated Two-Dimensional Devices toward Next-Generation Electronics. ACS Nano, 2022, 16, 13595-13611.	7.3	42
29	van der Waals ferroelectrics: Progress and an outlook for future research directions. Journal of Applied Physics, 2022, 132, .	1.1	2
30	Advance in two-dimensional twisted moir $\tilde{A}$ $^{\odot}$ materials: Fabrication, properties, and applications. Nano Research, 2023, 16, 2579-2596.	5.8	8
31	Flexible Memristor Constructed by 2D Cadmium Phosphorus Trichalcogenide for Artificial Synapse and Logic Operation. Advanced Functional Materials, 2023, 33, .	7.8	16
32	Power-Delay Area-Efficient Processing-In-Memory Based on Nanocrystalline Hafnia Ferroelectric Field-Effect Transistors. ACS Applied Materials & Interfaces, 2023, 15, 1463-1474.	4.0	3
33	Wearable in-sensor reservoir computing using optoelectronic polymers with through-space charge-transport characteristics for multi-task learning. Nature Communications, 2023, 14, .	5.8	22
34	Reversible Diode with Tunable Band Alignment for Photoelectricityâ€Induced Artificial Synapse. Small, 2023, 19, .	5.2	4
35	Reconfigurable 2D-ferroelectric platform for neuromorphic computing. Applied Physics Reviews, 2023, 10, .	5.5	7
36	Epitaxial Growth of Large Area Two-Dimensional Ferroelectric α-In <sub>2</sub> Se <sub>3</sub> . Nano Letters, 2023, 23, 3098-3105.	4.5	13

CITATION REPORT

#	Article	IF	CITATIONS
37	<scp>SnS</scp> / <scp> MoS <sub>2</sub> </scp> van der Waals heterojunction for <scp>inâ€plane</scp> ferroelectric <scp>fieldâ€effect</scp> transistors with multibit memory and logic characteristics. EcoMat, 0, , .	6.8	3
38	Pseudo-transistors for emerging neuromorphic electronics. Science and Technology of Advanced Materials, 2023, 24, .	2.8	2
39	Achieving Ferroelectricity in a Centrosymmetric Highâ€Performance Semiconductor by Strain Engineering. Advanced Materials, 2023, 35, .	11.1	4
40	Memristor-based neural networks: a bridge from device to artificial intelligence. Nanoscale Horizons, 2023, 8, 716-745.	4.1	25
42	Asymmetric two-dimensional ferroelectric transistor with anti-ambipolar transport characteristics. , 2023, 18, .		0
49	Research progress on 2D ferroelectric and ferrovalley materials and their neuromorphic application. Science China: Physics, Mechanics and Astronomy, 2023, 66, .	2.0	3
50	Achieving reinforcement learning in a three-active-terminal neuromorphic device based on a 2D vdW ferroelectric material. Materials Horizons, 2023, 10, 3719-3728.	6.4	3