

Ziyu Lv

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

1,779
citations

22
h-index

42
g-index

57
ext. papers

2,272
ext. citations

11.9
avg, IF

5.15
L-index

#	Paper	IF	Citations
52	Evolutionary 2D organic crystals for optoelectronic transistors and neuromorphic computing. <i>Neuromorphic Computing and Engineering</i> , 2022 , 2, 012001		3
51	Memristor-based biomimetic compound eye for real-time collision detection. <i>Nature Communications</i> , 2021 , 12, 5979	17.4	17
50	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. <i>Organic Electronics</i> , 2021 , 90, 106062	3.5	6
49	MXene-ZnO Memristors: MXene-ZnO Memristor for Multimodal In-Sensor Computing (Adv. Funct. Mater. 21/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170152	15.6	2
48	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021 , 1, 2100006		19
47	Self-assembling crystalline peptide microrod for neuromorphic function implementation. <i>Matter</i> , 2021 , 4, 1702-1719	12.7	11
46	A methylation-inspired mesoporous coordination polymer for identification and removal of organic pollutants in aqueous solutions. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 638-647	7.3	2
45	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000180	6	5
44	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2170011	6	
43	Phototunable memories and reconfigurable logic applications based on natural melanin. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3569-3577	7.1	5
42	MXene-ZnO Memristor for Multimodal In-Sensor Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2100144	15.6	33
41	Chirality in peptide-based materials: From chirality effects to potential applications. <i>Chirality</i> , 2021 , 33, 618-642	2.1	2
40	Near-Infrared Artificial Synapses for Artificial Sensory Neuron System. <i>Small</i> , 2021 , 17, e2103837	11	10
39	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15370-15379	9.5	16
38	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. <i>Chemical Reviews</i> , 2020 , 120, 3941-4006	68.1	103
37	Device challenges, possible strategies, and conclusions 2020 , 317-324		1
36	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2985-2992	7.1	25

35	Building memory devices from biocomposite electronic materials. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 100-121	7.1	20
34	Optically Modulated Threshold Switching in CoreShell Quantum Dot Based Memristive Device. <i>Advanced Functional Materials</i> , 2020 , 30, 1909114	15.6	25
33	Constructing highly efficient all-inorganic perovskite solar cells with efficiency exceeding 17% by using dopant-free polymeric electron-donor materials. <i>Nano Energy</i> , 2020 , 75, 104933	17.1	28
32	Recent advancements in polyethyleneimine-based materials and their biomedical, biotechnology, and biomaterial applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 2951-2973	7.3	51
31	Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900765	6.4	25
30	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. <i>Nanoscale</i> , 2020 , 12, 23391-23423	7.7	13
29	Functional Memristors: Optically Modulated Threshold Switching in CoreShell Quantum Dot Based Memristive Device (Adv. Funct. Mater. 16/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070105	15.6	2
28	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. <i>Nanoscale Horizons</i> , 2019 , 4, 697-704	10.8	24
27	A solution processed metal-oxo cluster for rewritable resistive memory devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 843-852	7.1	15
26	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. <i>Advanced Functional Materials</i> , 2019 , 29, 1902374	15.6	95
25	Resistive Switching: Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties (Adv. Electron. Mater. 4/2019). <i>Advanced Electronic Materials</i> , 2019 , 5, 1970021	6.4	1
24	Circularly polarized light modulated supramolecular self-assembly for an azobenzene-based chiral gel.. <i>RSC Advances</i> , 2019 , 9, 10360-10363	3.7	6
23	Photonic Synapses: Near-Infrared Annihilation of Conductive Filaments in Quasipplane MoSe ₂ /Bi ₂ Se ₃ Nanosheets for Mimicking Heterosynaptic Plasticity (Small 7/2019). <i>Small</i> , 2019 , 15, 1970039	11	1
22	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10203-10210	7.1	20
21	Photonic Synapse: Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation (Adv. Funct. Mater. 31/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970212	15.6	
20	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800793	6.4	28
19	Near-Infrared Annihilation of Conductive Filaments in Quasipplane MoSe /Bi Se Nanosheets for Mimicking Heterosynaptic Plasticity. <i>Small</i> , 2019 , 15, e1805431	11	55
18	From biomaterial-based data storage to bio-inspired artificial synapse. <i>Materials Today</i> , 2018 , 21, 537-552	1.8	159

17	Emerging perovskite materials for high density data storage and artificial synapses. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1600-1617	7.1	77
16	A biomimetic design for a sialylated, glycan-specific smart polymer. <i>NPG Asia Materials</i> , 2018 , 10, e472-e473	7.3	8
15	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. <i>Advanced Materials</i> , 2018 , 30, e1802883	24	282
14	Memory Devices: Synergies of Electrochemical Metallization and Valence Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching (Adv. Mater. 28/2018). <i>Advanced Materials</i> , 2018 , 30, 1870207	24	1
13	Polyoxometalates-Modulated Reduced Graphene Oxide Flash Memory with Ambipolar Trapping as Bidirectional Artificial Synapse. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800444	6.4	25
12	Photonic Flash Memory: Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing (Adv. Mater. 38/2018). <i>Advanced Materials</i> , 2018 , 30, 1870287	24	3
11	Synergies of Electrochemical Metallization and Valence Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. <i>Advanced Materials</i> , 2018 , 30, e1800327	24	177
10	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. <i>Small</i> , 2018 , 14, e1800288	11	54
9	Phototunable Biomemory Based on Light-Mediated Charge Trap. <i>Advanced Science</i> , 2018 , 5, 1800714	13.6	75
8	Exploring the role of molecular chirality in the photo-responsiveness of dipeptide-based gels. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3163-3171	7.3	15
7	Stimuli-Directed Helical Chirality Inversion and Bio-Applications. <i>Polymers</i> , 2016 , 8,	4.5	29
6	Surface Stiffness—a Parameter for Sensing the Chirality of Saccharides. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27223-33	9.5	18
5	Solvent-driven chiral-interaction reversion for organogel formation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2124-9	16.4	64
4	Chiral effect at protein/graphene interface: a bioinspired perspective to understand amyloid formation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10736-42	16.4	86
3	Smart drug release systems based on stimuli-responsive polymers. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 1369-80	3.2	29
2	Temperature Modulating Fermi Level Pinning in 2D GeSe for High-Performance Transistor. <i>Advanced Electronic Materials</i> , 2101112	6.4	0
1	Ultrasensitive Flexible Memory Phototransistor with Detectivity of 1.8×10^{13} Jones for Artificial Visual Nociceptor. <i>Advanced Intelligent Systems</i> , 2100257	6	2