

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5775607/ziyu-lv-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. <i>Advanced Materials</i> , 2018 , 30, e1802883	24	282
51	Synergies of Electrochemical Metallization and Valance Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. <i>Advanced Materials</i> , 2018 , 30, e1800327	24	177
50	From biomaterial-based data storage to bio-inspired artificial synapse. <i>Materials Today</i> , 2018 , 21, 537-552	1.8	159
49	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. <i>Chemical Reviews</i> , 2020 , 120, 3941-4006	68.1	103
48	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. <i>Advanced Functional Materials</i> , 2019 , 29, 1902374	15.6	95
47	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
46	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
45	Phototunable Biomemory Based on Light-Mediated Charge Trap. <i>Advanced Science</i> , 2018 , 5, 1800714	13.6	75
44	Solvent-driven chiral-interaction reversion for organogel formation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2124-9	16.4	64
43	Near-Infrared Annihilation of Conductive Filaments in Quasiplane MoSe /Bi Se Nanosheets for Mimicking Heterosynaptic Plasticity. <i>Small</i> , 2019 , 15, e1805431	11	55
42	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. <i>Small</i> , 2018 , 14, e1800288	11	54
41	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
40	MXene-ZnO Memristor for Multimodal In-Sensor Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2100144	15.6	33
39	Smart drug release systems based on stimuli-responsive polymers. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 1369-80	3.2	29
38	Stimuli-Directed Helical Chirality Inversion and Bio-Applications. <i>Polymers</i> , 2016 , 8,	4.5	29
37	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
36	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800793	6.4	28

35	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2985-2992	7.1	25
34	Optically Modulated Threshold Switching in CoreShell Quantum Dot Based Memristive Device. <i>Advanced Functional Materials</i> , 2020 , 30, 1909114	15.6	25
33	Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900765	6.4	25
32	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
31	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. <i>Nanoscale Horizons</i> , 2019 , 4, 697-704	10.8	24
30	Building memory devices from biocomposite electronic materials. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 100-121	7.1	20
29	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
28	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021 , 1, 2100006		19
27	Surface Stiffness--a Parameter for Sensing the Chirality of Saccharides. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27223-33	9.5	18
26	Memristor-based biomimetic compound eye for real-time collision detection. <i>Nature Communications</i> , 2021 , 12, 5979	17.4	17
25	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15370-15379	9.5	16
24	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
23	A solution processed metaloxo cluster for rewritable resistive memory devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 843-852	7.1	15
22	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. <i>Nanoscale</i> , 2020 , 12, 23391-23423	7.7	13
21	Self-assembling crystalline peptide microrod for neuromorphic function implementation. <i>Matter</i> , 2021 , 4, 1702-1719	12.7	11
20	Near-Infrared Artificial Synapses for Artificial Sensory Neuron System. <i>Small</i> , 2021 , 17, e2103837	11	10
19	A biomimetic design for a sialylated, glycan-specific smart polymer. <i>NPG Asia Materials</i> , 2018 , 10, e472-e473	4.7	8
18	Circularly polarized light modulated supramolecular self-assembly for an azobenzene-based chiral gel.. <i>RSC Advances</i> , 2019 , 9, 10360-10363	3.7	6

17	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. <i>Organic Electronics</i> , 2021 , 90, 106062	3.5	6
16	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000180	6	5
15	Phototunable memories and reconfigurable logic applications based on natural melanin. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3569-3577	7.1	5
14	Evolutionary 2D organic crystals for optoelectronic transistors and neuromorphic computing. <i>Neuromorphic Computing and Engineering</i> , 2022 , 2, 012001		3
13	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
12	Ultrasensitive Flexible Memory Phototransistor with Detectivity of 1.8×10^{13} Jones for Artificial Visual Nociceptor. <i>Advanced Intelligent Systems</i> , 2100257	6	2
11	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
10	Functional Memristors: Optically Modulated Threshold Switching in Core/Shell Quantum Dot Based Memristive Device (Adv. Funct. Mater. 16/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070105	15.6	2
9	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
8	Chirality in peptide-based materials: From chirality effects to potential applications. <i>Chirality</i> , 2021 , 33, 618-642	2.1	2
7	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
6	Photonic Synapses: Near-Infrared Annihilation of Conductive Filaments in Quasiplane MoSe ₂ /Bi ₂ Se ₃ Nanosheets for Mimicking Heterosynaptic Plasticity (Small 7/2019). <i>Small</i> , 2019 , 15, 1970039	11	1
5	Device challenges, possible strategies, and conclusions 2020 , 317-324		1
4	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
3	Temperature Modulating Fermi Level Pinning in 2D GeSe for High-Performance Transistor. <i>Advanced Electronic Materials</i> , 2101112	6.4	0
2	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	
1	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2170011	6	