

Junyao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,495
citations

430874

18
h-index

526287

27
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29
docs citations

29
times ranked

1021
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advancements in flexible and wearable sensors for biomedical and healthcare applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 134001.	2.8	31
2	Sensitive sensors based on bilayer organic field-effect transistors for detecting lithium-ion battery electrolyte leakage. <i>Science China Materials</i> , 2022, 65, 1187-1194.	6.3	9
3	Tailoring neuroplasticity in flexible perovskite QDs-based optoelectronic synaptic transistors by dual modes modulation. <i>Nano Energy</i> , 2022, 95, 106987.	16.0	48
4	Chemical sensors based on ionically conductive metal-organic frameworks for selective cadaverine detection. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5497-5504.	5.5	6
5	Covalent Coupling of Porphyrins with Monolayer Graphene for Low-Voltage Synaptic Transistors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11699-11707.	8.0	10
6	Air-stable synaptic devices based on bismuth triiodide and carbon nanotubes. <i>Nano Research</i> , 2022, 15, 5435-5442.	10.4	12
7	Bioinspired organic optoelectronic synaptic transistors based on cellulose nanopaper and natural chlorophyll-a for neuromorphic systems. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	21
8	Monolayer molecular crystals for low-energy consumption optical synaptic transistors. <i>Nano Research</i> , 2022, 15, 7639-7645.	10.4	18
9	2022 roadmap on neuromorphic devices and applications research in China. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 042501.	5.9	4
10	OFET chemical sensors: Chemical sensors based on ultrathin organic field-effect transistors. <i>Polymer International</i> , 2021, 70, 414-425.	3.1	40
11	Highly Sensitive Artificial Visual Array Using Transistors Based on Porphyrins and Semiconductors. <i>Small</i> , 2021, 17, e2005491.	10.0	49
12	Degradable Photonic Synaptic Transistors Based on Natural Biomaterials and Carbon Nanotubes. <i>Small</i> , 2021, 17, e2007241.	10.0	58
13	Photonic Synapses with Ultra-Low Energy Consumption Based on Vertical Organic Field-Effect Transistors. <i>Advanced Optical Materials</i> , 2021, 9, 2002030.	7.3	50
14	Retina-Inspired Organic Heterojunction-Based Optoelectronic Synapses for Artificial Visual Systems. <i>Research</i> , 2021, 2021, 7131895.	5.7	43
15	Spectrum-dependent photonic synapses based on 2D imine polymers for power-efficient neuromorphic computing. <i>Informa-Materially</i> , 2021, 3, 904-916.	17.3	57
16	High Performance Ternary Organic Phototransistors with Photoresponse up to 2600 nm at Room Temperature. <i>Advanced Functional Materials</i> , 2021, 31, 2103787.	14.9	26
17	Lead-Free Perovskites-Based Photonic Synaptic Devices with Logic Functions. <i>Advanced Materials Technologies</i> , 2021, 6, 2100678.	5.8	18
18	Transparent, flexible, and multifunctional starch-based double-network hydrogels as high-performance wearable electronics. <i>Carbohydrate Polymers</i> , 2021, 267, 118198.	10.2	73

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19	Artificial Synapses Based on Lead-Free Perovskite Floating-Gate Organic Field-Effect Transistors for Supervised and Unsupervised Learning. ACS Applied Materials & Interfaces, 2021, 13, 43144-43154.	8.0	43
20	Printable, ultralow-power ternary synaptic transistors for multifunctional information processing system. Nano Energy, 2021, 87, 106197.	16.0	43
21	Low-power consumption light-stimulated synaptic transistors based on natural carotene and organic semiconductors. Chemical Communications, 2021, 57, 8300-8303.	4.1	22
22	Highly Selective and Sensitive Detection of Volatile Sulfur Compounds by Ionically Conductive Metal-Organic Frameworks. Advanced Materials, 2021, 33, e2104120.	21.0	25
23	Recent Progress in Photonic Synapses for Neuromorphic Systems. Advanced Intelligent Systems, 2020, 2, 1900136.	6.1	132
24	Perovskite/Organic Semiconductor-Based Photonic Synaptic Transistor for Artificial Visual System. ACS Applied Materials & Interfaces, 2020, 12, 39487-39495.	8.0	155
25	Recent Advances in Transistor-Based Artificial Synapses. Advanced Functional Materials, 2019, 29, 1903700.	14.9	396
26	Wood-Derived Nanopaper Dielectrics for Organic Synaptic Transistors. ACS Applied Materials & Interfaces, 2018, 10, 39983-39991.	8.0	86
27	Long-Term Stable and Tunable High-Performance Photodetectors Based on Perovskite Microwires. Advanced Optical Materials, 2018, 6, 1800469.	7.3	19
28	Facile, Low-Cost and Flexible Ammonia Sensor Arrays Based on Metallic Ion Charge Carriers and Polymer Matrices. Advanced Materials Technologies, 0, , 2100789.	5.8	1