

Yanghui Liu

List of Publications by Year in descending order

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34
papers

1,815
citations

394421

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times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Freestanding Artificial Synapses Based on Laterally Proton-Coupled Transistors on Chitosan Membranes. <i>Advanced Materials</i> , 2015, 27, 5599-5604.	21.0	352
2	Proton-Conducting Graphene Oxide-Coupled Neuron Transistors for Brain-Inspired Cognitive Systems. <i>Advanced Materials</i> , 2016, 28, 3557-3563.	21.0	226
3	Stretchable elastic synaptic transistors for neurologically integrated soft engineering systems. <i>Science Advances</i> , 2019, 5, eaax4961.	10.3	191
4	Low-Voltage, Optoelectronic CH ₃ NH ₃ Pb ⁺ Cl _x Memory with Integrated Sensing and Logic Operations. <i>Advanced Functional Materials</i> , 2018, 28, 1800080.	14.9	190
5	Flexible Metal Oxide/Graphene Oxide Hybrid Neuromorphic Transistors on Flexible Conducting Graphene Substrates. <i>Advanced Materials</i> , 2016, 28, 5878-5885.	21.0	144
6	Short-Term Synaptic Plasticity Regulation in Solution-Gated Indium-Gallium-Zinc-Oxide Electric-Double-Layer Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9762-9768.	8.0	81
7	Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. <i>Scientific Reports</i> , 2015, 5, 18082.	3.3	70
8	Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2003859.	14.9	58
9	Dynamically Reconfigurable Short-Term Synapse with Millivolt Stimulus Resolution Based on Organic Electrochemical Transistors. <i>Advanced Materials Technologies</i> , 2019, 4, 1900471.	5.8	57
10	Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21770-21775.	8.0	55
11	Solution-Processed Chitosan-Gated IZO-Based Transistors for Mimicking Synaptic Plasticity. <i>IEEE Electron Device Letters</i> , 2014, 35, 280-282.	3.9	48
12	Proton conducting sodium alginate electrolyte laterally coupled low-voltage oxide-based transistors. <i>Applied Physics Letters</i> , 2014, 104, 133504.	3.3	46
13	Laterally Coupled Dual-Gate Oxide-Based Transistors on Sodium Alginate Electrolytes. <i>IEEE Electron Device Letters</i> , 2014, 35, 1257-1259.	3.9	42
14	Multi-gate synergic modulation in laterally coupled synaptic transistors. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	32
15	Low-Cost pH Sensors Based on Low-Voltage Oxide-Based Electric-Double-Layer Thin Film Transistors. <i>IEEE Electron Device Letters</i> , 2014, 35, 482-484.	3.9	28
16	Bienenstock-Cooper-Munro Learning Rule Realized in Polysaccharide-Gated Synaptic Transistors with Tunable Threshold. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50061-50067.	8.0	25
17	Transient Characteristics for Proton Gating in Laterally Coupled Indium-Zinc-Oxide Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6205-6210.	8.0	23
18	Extended-gate-type IGZO electric-double-layer TFT immunosensor with high sensitivity and low operation voltage. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	21

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19	Linear Classification Function Emulated by Pectin-Based Polysaccharide-Gated Multiterminal Neuron Transistors. <i>Advanced Functional Materials</i> , 2021, 31, 2102015.	14.9	19
20	Steep Slope p-type 2D WSe ₂ Field-Effect Transistors with Van Der Waals Contact and Negative Capacitance. , 2018, , .		16
21	Tunable Schottky barriers in ultrathin black phosphorus field effect transistors via polymer capping. <i>2D Materials</i> , 2019, 6, 024001.	4.4	13
22	Laterally Coupled Synaptic Transistors Gated by Proton Conducting Sodium Alginate Films. <i>IEEE Electron Device Letters</i> , 2014, 35, 672-674.	3.9	12
23	Flexible Oxide-Based Thin-Film Transistors on Plastic Substrates for Logic Applications. <i>Journal of Materials Science and Technology</i> , 2015, 31, 171-174.	10.7	12
24	Bandgap Engineering of ZrGaO Films for Deep-Ultraviolet Detection. <i>IEEE Electron Device Letters</i> , 2021, 42, 895-898.	3.9	10
25	Improved air-stability of an organic-inorganic perovskite with anhydrously transferred graphene. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8663-8669.	5.5	9
26	Low-Voltage Depletion-Load Inverter Using Solid-State Electrolyte Gated Oxide Transistors. <i>IEEE Electron Device Letters</i> , 2016, 37, 591-594.	3.9	8
27	Contact resistance reduction of carbon nanotube via through O ₂ plasma post-synthesis treatment. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5039-5045.	5.5	7
28	Surface Passivation Performance of Atomic-Layer-Deposited Al ₂ O ₃ on p-type Silicon Substrates. <i>Journal of Materials Science and Technology</i> , 2014, 30, 835-838.	10.7	5
29	Dopamine Detection Based on Low-Voltage Oxide Homojunction Electric-Double-Layer Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2016, , 1-1.	3.9	5
30	Low-Temperature Solution-Processed Lu ₂ O ₃ Films for Deep-UV Photovoltaic Detectors With High Sensitivity. <i>IEEE Electron Device Letters</i> , 2022, 43, 1295-1298.	3.9	5
31	Proton gated oxide electric-double-layer transistors for full-swing low voltage inverter applications. <i>RSC Advances</i> , 2016, 6, 1053-1057.	3.6	3
32	Effect of Annealing Temperature on Solar-Blind Ultraviolet Photodetectors Based on Solution-Processed Scandium Oxide Films. <i>IEEE Electron Device Letters</i> , 2022, 43, 1507-1510.	3.9	2
33	Self-assembled transparent a-IGZO based TFTs for flexible sensing applications. , 2014, , .		0
34	n-type Polycrystalline Si Thick Films Deposited on SiNx-coated Metallurgical Grade Si Substrates. <i>Journal of Materials Science and Technology</i> , 2015, 31, 65-69.	10.7	0