

Yanghui Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5949459/publications.pdf>

Version: 2024-02-01

34
papers

1,815
citations

394421

19
h-index

434195

31
g-index

35
all docs

35
docs citations

35
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Temperature Solution-Processed Lu_2O_3 Films for Deep-UV Photovoltaic Detectors With High Sensitivity. <i>IEEE Electron Device Letters</i> , 2022, 43, 1295-1298.	3.9	5
2	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
3	Linear Classification Function Emulated by Pectin-Based Polysaccharide-Gated Multiterminal Neuron Transistors. <i>Advanced Functional Materials</i> , 2021, 31, 2102015.	14.9	19
4	Bandgap Engineering of ZrGaO Films for Deep-Ultraviolet Detection. <i>IEEE Electron Device Letters</i> , 2021, 42, 895-898.	3.9	10
5	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
6	Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2003859.	14.9	58
7	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
8	Stretchable elastic synaptic transistors for neurologically integrated soft engineering systems. <i>Science Advances</i> , 2019, 5, eaax4961.	10.3	191
9	Tunable Schottky barriers in ultrathin black phosphorus field effect transistors via polymer capping. <i>2D Materials</i> , 2019, 6, 024001.	4.4	13
10	Low-Voltage, Optoelectronic $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{Cl}$ Memory with Integrated Sensing and Logic Operations. <i>Advanced Functional Materials</i> , 2018, 28, 1800080.	14.9	190
11	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
12	Steep Slope p-type 2D WSe_2 Field-Effect Transistors with Van Der Waals Contact and Negative Capacitance. , 2018, , .		16
13	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
14	Proton-Conducting Graphene Oxide-Coupled Neuron Transistors for Brain-Inspired Cognitive Systems. <i>Advanced Materials</i> , 2016, 28, 3557-3563.	21.0	226
15	Flexible Metal Oxide/Graphene Oxide Hybrid Neuromorphic Transistors on Flexible Conducting Graphene Substrates. <i>Advanced Materials</i> , 2016, 28, 5878-5885.	21.0	144
16	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
17	Dopamine Detection Based on Low-Voltage Oxide Homo Junction Electric-Double-Layer Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2016, , 1-1.	3.9	5
18	Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21770-21775.	8.0	55

#	ARTICLE	IF	CITATIONS
19	Proton gated oxide electric-double-layer transistors for full-swing low voltage inverter applications. RSC Advances, 2016, 6, 1053-1057.	3.6	3
20	Short-Term Synaptic Plasticity Regulation in Solution-Gated Indium-Gallium-Zinc-Oxide Electric-Double-Layer Transistors. ACS Applied Materials & Interfaces, 2016, 8, 9762-9768.	8.0	81
21	Low-Voltage Depletion-Load Inverter Using Solid-State Electrolyte Gated Oxide Transistors. IEEE Electron Device Letters, 2016, 37, 591-594.	3.9	8
22	Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. Scientific Reports, 2015, 5, 18082.	3.3	70
23	Multi-gate synergic modulation in laterally coupled synaptic transistors. Applied Physics Letters, 2015, 107, .	3.3	32
24	Freestanding Artificial Synapses Based on Laterally Proton-Coupled Transistors on Chitosan Membranes. Advanced Materials, 2015, 27, 5599-5604.	21.0	352
25	Transient Characteristics for Proton Gating in Laterally Coupled Indium-Zinc-Oxide Transistors. ACS Applied Materials & Interfaces, 2015, 7, 6205-6210.	8.0	23
26	Flexible Oxide-Based Thin-Film Transistors on Plastic Substrates for Logic Applications. Journal of Materials Science and Technology, 2015, 31, 171-174.	10.7	12
27	n-type Polycrystalline Si Thick Films Deposited on SiNx-coated Metallurgical Grade Si Substrates. Journal of Materials Science and Technology, 2015, 31, 65-69.	10.7	0
28	Laterally Coupled Dual-Gate Oxide-Based Transistors on Sodium Alginate Electrolytes. IEEE Electron Device Letters, 2014, 35, 1257-1259.	3.9	42
29	Solution-Processed Chitosan-Gated IZO-Based Transistors for Mimicking Synaptic Plasticity. IEEE Electron Device Letters, 2014, 35, 280-282.	3.9	48
30	Self-assembled transparent a-IGZO based TFTs for flexible sensing applications. , 2014, , .		0
31	Low-Cost pH Sensors Based on Low-Voltage Oxide-Based Electric-Double-Layer Thin Film Transistors. IEEE Electron Device Letters, 2014, 35, 482-484.	3.9	28
32	Proton conducting sodium alginate electrolyte laterally coupled low-voltage oxide-based transistors. Applied Physics Letters, 2014, 104, 133504.	3.3	46
33	Laterally Coupled Synaptic Transistors Gated by Proton Conducting Sodium Alginate Films. IEEE Electron Device Letters, 2014, 35, 672-674.	3.9	12
34	Surface Passivation Performance of Atomic-Layer-Deposited Al2O3 on p-type Silicon Substrates. Journal of Materials Science and Technology, 2014, 30, 835-838.	10.7	5