

Yi Yang

List of Publications by Year in descending order

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32
papers

1,853
citations

471509

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414414

32
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docs citations

34
times ranked

1893
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterointerface Engineering in Electromagnetic Absorbers: New Insights and Opportunities. <i>Advanced Materials</i> , 2022, 34, e2106195.	21.0	307
2	2D MoS ₂ Neuromorphic Devices for Brain-Like Computational Systems. <i>Small</i> , 2017, 13, 1700933.	10.0	268
3	Electric-double-layer transistors for synaptic devices and neuromorphic systems. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5336-5352.	5.5	170
4	Printed Neuromorphic Devices Based on Printed Carbon Nanotube Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1604447.	14.9	147
5	Carbonized Bamboos as Excellent 3D Solar Vapor-Generation Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800593.	5.8	107
6	Light Stimulated IGZO-Based Electric-Double-Layer Transistors For Photoelectric Neuromorphic Devices. <i>IEEE Electron Device Letters</i> , 2018, 39, 897-900.	3.9	94
7	Long-Term Synaptic Plasticity Emulated in Modified Graphene Oxide Electrolyte Gated IZO-Based Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30281-30286.	8.0	91
8	Chitosan-based biopolysaccharide proton conductors for synaptic transistors on paper substrates. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6249-6255.	5.5	81
9	Optoelectronic Properties of Printed Photogating Carbon Nanotube Thin Film Transistors and Their Application for Light-Stimulated Neuromorphic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12161-12169.	8.0	80
10	1.37 kV/12 A NiO ² -Ga ₂ O ₃ Heterojunction Diode With Nanosecond Reverse Recovery and Rugged Surge-Current Capability. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 12213-12217.	7.9	77
11	Short-Term Plasticity and Synaptic Filtering Emulated in Electrolyte-Gated IGZO Transistors. <i>IEEE Electron Device Letters</i> , 2016, 37, 299-302.	3.9	64
12	1.95-kV Beveled-Mesa NiO ² -Ga ₂ O ₃ Heterojunction Diode With 98.5% Conversion Efficiency and Over Million-Times Overvoltage Ruggedness. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 1223-1227.	7.9	60
13	Oxide-based Synaptic Transistors Gated by Sol-Gel Silica Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3050-3055.	8.0	52
14	Sustainable Solar Evaporation while Salt Accumulation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4935-4942.	8.0	46
15	Multifunctional Logic Demonstrated in a Flexible Multigate Oxide-Based Electric-Double-Layer Transistor on Paper Substrate. <i>Advanced Electronic Materials</i> , 2017, 3, 1600509.	5.1	36
16	Flexible IZO Homo Junction TFTs With Graphene Oxide/Chitosan Composite Gate Dielectrics on Paper Substrates. <i>IEEE Electron Device Letters</i> , 2018, 39, 363-366.	3.9	33
17	Highly efficient solar steam generation by hybrid plasmonic structured TiN/mesoporous anodized alumina membrane. <i>Journal of Materials Research</i> , 2018, 33, 3857-3869.	2.6	19
18	Anion Engineering Enhanced Response Speed and Tunable Spectral Responsivity in Gallium-Oxynitrides-Based Ultraviolet Photodetectors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 808-816.	4.3	18

#	ARTICLE	IF	CITATIONS
19	Thin magnetic coating for low-frequency broadband microwave absorption. Journal of Applied Physics, 2014, 116, 243911.	2.5	16
20	Neuromorphic Simulation of Proton Conductors Laterally Coupled Oxide-Based Transistors With Multiple in-Plane Gates. IEEE Electron Device Letters, 2017, 38, 525-528.	3.9	14
21	Enhanced Contactless Salt-Collecting Solar Desalination. ACS Applied Materials & Interfaces, 2022, 14, 34151-34158.	8.0	13
22	Flexible Low-Voltage In ^{0.1} Zn ^{0.9} O Homojunction TFTs With Beeswax Gate Dielectric on Paper Substrates. IEEE Electron Device Letters, 2016, 37, 287-290.	3.9	11
23	Distinct enhancement of sub-bandgap photoresponse through intermediate band in high dose implanted ZnTe:O alloys. Scientific Reports, 2017, 7, 44399.	3.3	10
24	Field-Plated NiO/Ga ₂ O ₃ p-n Heterojunction Power Diodes With High-Temperature Thermal Stability and Near Unity Ideality Factors. IEEE Journal of the Electron Devices Society, 2021, 9, 1166-1171.	2.1	10
25	Preparation and Microwave Absorption of Nitrogen-Doped Carbon Nanotubes With Iron Particles. IEEE Transactions on Magnetics, 2018, , 1-6.	2.1	7
26	Optimization of chitosan gated electric double layer transistors by combining nanoparticle incorporation and acid doping. RSC Advances, 2016, 6, 109803-109808.	3.6	5
27	High-frequency magnetodielectric response in yttrium iron garnet at room temperature. Journal of Applied Physics, 2018, 123, 205109.	2.5	5
28	Tunable storage states' transition in slotted ferromagnetic nanorings. Journal of Applied Physics, 2017, 121, .	2.5	3
29	Accurate manipulation of single skyrmion by probe ring. Journal of Applied Physics, 2020, 128, .	2.5	3
30	Hysteretic Behavior of the Dynamic Permeability in FeCoB Thin Films. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
31	Research of the impact of coupling between unit cells on performance of linear-to-circular polarization conversion metamaterial with half transmission and half reflection. International Journal of Modern Physics B, 2018, 32, 1850124.	2.0	0
32	Research on Broadband Microwave Absorber Containing a 2D Artificial Electromagnetic Material Composed of Cross Section Resonator Sub-Unit Cells Inserting Ferromagnetic Materials. Journal of Nanoelectronics and Optoelectronics, 2020, 15, 108-112.	0.5	0