Ye Zhou

List of Publications by Citations

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175 papers	6,219 citations	42 h-index	72 g-index
186 ext. papers	7,786 ext. citations	10.6 avg, IF	6.38 L-index

#	Paper	IF	Citations
175	Towards the development of flexible non-volatile memories. *Advanced Materials*, **2013**, 25, 5425-49	24	394
174	An Overview of the Development of Flexible Sensors. *Advanced Materials*, **2017**, 29, 1700375	24	293
173	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. *Advanced Materials*, **2018**, 30, e1802883	24	282
172	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. *Materials Horizons*, **2017**, 4, 997-1019	14.4	250
171	Synergies of Electrochemical Metallization and Valance Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. *Advanced Materials*, **2018**, 30, e1800327	24	177
170	From biomaterial-based data storage to bio-inspired artificial synapse. *Materials Today*, **2018**, 21, 537-552	21.8	159
169	Layer-by-layer-assembled reduced graphene oxide/gold nanoparticle hybrid double-floating-gate structure for low-voltage flexible flash memory. *Advanced Materials*, **2013**, 25, 872-7, 793	24	153
168	Bioinspired Artificial Sensory Nerve Based on Nafion Memristor. *Advanced Functional Materials*, **2019**, 29, 1808783	15.6	140
167	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. *Advanced Science*, **2017**, 4, 1600435	13.6	135
166	Microcontact printing of ultrahigh density gold nanoparticle monolayer for flexible flash memories. *Advanced Materials*, **2012**, 24, 3556-61	24	131
165	Fluorinated Phosphorene: Electrochemical Synthesis, Atomistic Fluorination, and Enhanced Stability. *Small*, **2017**, 13, 1702739	11	123
164	An upconverted photonic nonvolatile memory. *Nature Communications*, **2014**, 5, 4720	17.4	108
163	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. *Chemical Reviews*, **2020**, 120, 3941-4006	68.1	103
162	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. *Small*, **2018**, 14, 1703126	11	102
161	Fingertip-Skin-Inspired Highly Sensitive and Multifunctional Sensor with Hierarchically Structured Conductive Graphite/Polydimethylsiloxane Foams. *Advanced Functional Materials*, **2019**, 29, 1808829	15.6	98
160	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. *Advanced Functional Materials*, **2019**, 29, 1902374	15.6	95
159	Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism. *Scientific Reports*, **2013**, 3, 2319	4.9	95

158	Gate-Tunable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. *Advanced Functional Materials*, **2018**, 28, 1805599	15.6	88
157	Recent Advances in Ambipolar Transistors for Functional Applications. *Advanced Functional Materials*, **2019**, 29, 1902105	15.6	86
156	Emerging perovskite materials for high density data storage and artificial synapses. *Journal of Materials Chemistry C*, **2018**, 6, 1600-1617	7.1	77
155	Phototunable Biomemory Based on Light-Mediated Charge Trap. *Advanced Science*, **2018**, 5, 1800714	13.6	75
154	Evolutionary Metal Oxide Clusters for Novel Applications: Toward High-Density Data Storage in Nonvolatile Memories. *Advanced Materials*, **2018**, 30, 1703950	24	74
153	Nanoparticle size dependent threshold voltage shifts in organic memory transistors. *Journal of Materials Chemistry*, **2011**, 21, 14575		74
152	Tunable synaptic behavior realized in C3N composite based memristor. *Nano Energy*, **2019**, 58, 293-303	17.1	71
151	Phosphorene/ZnO Nano-Heterojunctions for Broadband Photonic Nonvolatile Memory Applications. *Advanced Materials*, **2018**, 30, e1801232	24	68
150	Toward non-volatile photonic memory: concept, material and design. *Materials Horizons*, **2018**, 5, 641-654	14.4	67
149	2D Metal–Organic Framework Nanosheets with Time-Dependent and Multilevel Memristive Switching. *Advanced Functional Materials*, **2019**, 29, 1806637	15.6	67
148	Photonic Memristor for Future Computing: A Perspective. *Advanced Optical Materials*, **2019**, 7, 1900766	8.1	65
147	Highly Sensitive and Ultrastable Skin Sensors for Biopressure and Bioforce Measurements Based on Hierarchical Microstructures. *ACS Applied Materials & Interfaces*, **2018**, 10, 4086-4094	9.5	59
146	Infrared-Sensitive Memory Based on Direct-Grown MoS -Upconversion-Nanoparticle Heterostructure. *Advanced Materials*, **2018**, 30, e1803563	24	57
145	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. *Advanced Materials*, **2020**, 32, e2003610	24	56
144	Near-Infrared Annihilation of Conductive Filaments in Quasiplane MoSe /Bi Se Nanosheets for Mimicking Heterosynaptic Plasticity. *Small*, **2019**, 15, e1805431	11	55
143	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. *Small*, **2018**, 14, e1800288	11	54
142	Low voltage flexible nonvolatile memory with gold nanoparticles embedded in poly(methyl methacrylate). *Nanotechnology*, **2012**, 23, 344014	3.4	50
141	Artificial Synapse Emulated by Charge Trapping-Based Resistive Switching Device. *Advanced Materials Technologies*, **2019**, 4, 1800342	6.8	49

140	Solution processed molecular floating gate for flexible flash memories. *Scientific Reports*, **2013**, 3, 3093	4.9	48
139	Configurable multi-state non-volatile memory behaviors in TiC nanosheets. *Nanoscale*, **2019**, 11, 7102-7110	7.9	45
138	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. *Advanced Intelligent Systems*, **2020**, 2, 2000055	6	45
137	Fully photon modulated heterostructure for neuromorphic computing. *Nano Energy*, **2019**, 65, 104000	17.1	45
136	Artificial synapses emulated through a light mediated organic–inorganic hybrid transistor. *Journal of Materials Chemistry C*, **2019**, 7, 48-59	7.1	44
135	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. *Nano Energy*, **2020**, 71, 104616	17.1	43
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133	A bio-inspired electronic synapse using solution processable organic small molecule. *Journal of Materials Chemistry C*, **2019**, 7, 1491-1501	7.1	42
132	Energy-band engineering for tunable memory characteristics through controlled doping of reduced graphene oxide. *ACS Nano*, **2014**, 8, 1923-31	16.7	42
131	Controlled ambipolar charge transport through a self-assembled gold nanoparticle monolayer. *Advanced Materials*, **2012**, 24, 1247-51	24	41
130	CdSe/ZnS core–shell quantum dots charge trapping layer for flexible photonic memory. *Journal of Materials Chemistry C*, **2015**, 3, 3173-3180	7.1	40
129	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. *Scientific Reports*, **2015**, 5, 10683	4.9	38
128	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. *Journal of Materials Chemistry C*, **2018**, 6, 9383-9393	7.1	37
127	The strain and thermal induced tunable charging phenomenon in low power flexible memory arrays with a gold nanoparticle monolayer. *Nanoscale*, **2013**, 5, 1972-9	7.7	37
126	Template-Directed Growth of Hierarchical MOF Hybrid Arrays for Tactile Sensor. *Advanced Functional Materials*, **2020**, 30, 2001296	15.6	36
125	A self-powered artificial retina perception system for image preprocessing based on photovoltaic devices and memristive arrays. *Nano Energy*, **2020**, 78, 105246	17.1	34
124	Functional high-k nanocomposite dielectrics for flexible transistors and inverters with excellent mechanical properties. *Journal of Materials Chemistry*, **2012**, 22, 14246		33
123	MXene-ZnO Memristor for Multimodal In-Sensor Computing. *Advanced Functional Materials*, **2021**, 31, 2100144	15.6	33

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121	Polymer–nanoparticle hybrid dielectrics for flexible transistors and inverters. *Journal of Materials Chemistry*, **2012**, 22, 4060		31
120	Organic small molecule-based RRAM for data storage and neuromorphic computing. *Journal of Materials Chemistry C*, **2020**, 8, 12714-12738	7.1	30
119	Ferroelectric polymers for non-volatile memory devices: a review. *Polymer International*, **2020**, 69, 533-544	3.5	30
118	Controllable threshold voltage shifts of polymer transistors and inverters by utilizing gold nanoparticles. *Applied Physics Letters*, **2012**, 101, 033306	3.4	30
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115	Biodegradable skin-inspired nonvolatile resistive switching memory based on gold nanoparticles embedded alkali lignin. *Organic Electronics*, **2018**, 59, 382-388	3.5	28
114	Two-dimensional molybdenum disulphide nanosheet-covered metal nanoparticle array as a floating gate in multi-functional flash memories. *Nanoscale*, **2015**, 7, 17496-503	7.7	27
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111	Novel high proton conductive material from liquid crystalline 4-(octadecyloxy)phenylsulfonic acid. *Journal of Materials Chemistry*, **2010**, 20, 6245		27
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103	TiO2 based sensor with butterfly wing configurations for fast acetone detection at room temperature. *Journal of Materials Chemistry C*, **2019**, 7, 11118-11125	7.1	23
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9	Biodegradable Polymer Nanocomposites for Electronics **2021**, 53-75		0
8	Three-terminal optoelectronic memory device **2020**, 107-120		
7	One-dimensional materials for photoelectroactive memories and synaptic devices **2020**, 179-200		
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3	Effect of Interface Modification Conditions on Electrical Characteristics and Device Consistency of Organic Thin Film Transistors. *IEEE Electron Device Letters*, **2022**, 43, 36-39	4.4	
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1	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. *Advanced Electronic Materials*,2101288	6.4	