Ye Zhou

List of Publications by Citations

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□rganic 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	7.7	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
134	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. *Nano Energy*, **2020**, 74, 104828	17.1	43
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

122	Hybrid Flexible Resistive Random Access Memory-Gated Transistor for Novel Nonvolatile Data Storage. *Small*, **2016**, 12, 390-6	11	32
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
117	Synaptic Plasticity and Filtering Emulated in Metal–Organic Frameworks Nanosheets Based Transistors. *Advanced Electronic Materials*, **2020**, 6, 1900978	6.4	30
116	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. *Advanced Electronic Materials*, **2019**, 5, 1800793	6.4	28
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
113	Localized Surface Plasmon Resonance-Mediated Charge Trapping/Detrapping for Core-Shell Nanorod-Based Optical Memory Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 34101-34110	9.5	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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108	Optically Modulated Threshold Switching in Core–Shell Quantum Dot Based Memristive Device. *Advanced Functional Materials*, **2020**, 30, 1909114	15.6	25
107	Solution-Processed Rare-Earth Oxide Thin Films for Alternative Gate Dielectric Application. *ACS Applied Materials & Interfaces*, **2016**, 8, 31128-31135	9.5	25
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105	Polyoxometalates-Modulated Reduced Graphene Oxide Flash Memory with Ambipolar Trapping as Bidirectional Artificial Synapse. *Advanced Electronic Materials*, **2018**, 4, 1800444	6.4	25

104	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. *Nanoscale Horizons*, **2019**, 4, 697-704	10.8	24
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
102	Flexible Pyrene/Phenanthro[9,10-d]imidazole-Based Memristive Devices for Mimicking Synaptic Plasticity. *Advanced Intelligent Systems*, **2019**, 1, 1900008	6	22
101	Recent advances in synthesis and application of perovskite quantum dot based composites for photonics, electronics and sensors. *Science and Technology of Advanced Materials*, **2020**, 21, 278-302	7.1	21
100	Poly(3-hexylthiophene) nanotubes with tunable aspect ratios and charge transport properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 11874-81	9.5	21
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98	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. *Advanced Intelligent Systems*, **2020**, 2, 2000113	6	21
97	The Role of Metal-Organic Frameworks in Electronic Sensors. *Angewandte Chemie - International Edition*, **2021**, 60, 15192-15212	16.4	21
96	Functional Non-Volatile Memory Devices: From Fundamentals to Photo-Tunable Properties. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800644	2.5	20
95	Building memory devices from biocomposite electronic materials. *Science and Technology of Advanced Materials*, **2020**, 21, 100-121	7.1	20
94	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. *Journal of Materials Chemistry C*, **2019**, 7, 10203-10210	7.1	20
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92	Emerging MXenes for Functional Memories. *Small Science*, **2021**, 1, 2100006		19
91	Surface Decoration on Polymeric Gate Dielectrics for Flexible Organic Field-Effect Transistors via Hydroxylation and Subsequent Monolayer Self-Assembly. *ACS Applied Materials & Interfaces*, **2015**, 7, 23464-71	9.5	18
90	The strategies of filament control for improving the resistive switching performance. *Journal of Materials Chemistry C*, **2020**, 8, 16295-16317	7.1	18
89	Conjugated Copolymers through Electrospinning Synthetic Strategies and Their Versatile Applications in Sensing Environmental Toxicants, pH, Temperature, and Humidity. *Polymers*, **2020**, 12,	4.5	17
88	Memristor modeling: challenges in theories, simulations, and device variability. *Journal of Materials Chemistry C*, **2021**, 9, 16859-16884	7.1	17
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86	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. *ACS Applied Materials & Interfaces*, **2020**, 12, 15370-15379	9.5	16
85	Real-time storage of thermal signals in organic memory with floating core□shell nanoparticles. *Journal of Materials Chemistry C*, **2017**, 5, 8415-8423	7.1	16
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82	A solution processed metal□xo cluster for rewritable resistive memory devices. *Journal of Materials Chemistry C*, **2019**, 7, 843-852	7.1	15
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80	Enhanced self-assembled monolayer treatment on polymeric gate dielectrics with ultraviolet/ozone assistance in organic thin film transistors. *RSC Advances*, **2015**, 5, 64471-64477	3.7	14
79	Structure-charge transport relationship of 5,15-dialkylated porphyrins. *Chemical Communications*, **2012**, 48, 5139-41	5.8	14
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71	Polymorphism and electronic properties of vanadyl-phthalocyanine films. *Organic Electronics*, **2014**, 15, 1586-1591	3.5	12
70	Solution-processable graphene oxide as an insulator layer for metal□nsulator□emiconductor silicon solar cells. *RSC Advances*, **2013**, 3, 17918	3.7	12
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39	Inorganic Perovskite Quantum Dot-Based Strain Sensors for Data Storage and In-Sensor Computing. *ACS Applied Materials & Interfaces*, **2021**, 13, 30861-30873	9.5	5
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37	Phototunable memories and reconfigurable logic applications based on natural melanin. *Journal of Materials Chemistry C*, **2021**, 9, 3569-3577	7.1	5
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35	Bio-Inspired 3D Artificial Neuromorphic Circuits. *Advanced Functional Materials*,2113050	15.6	5
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33	Polymer Nanocomposites for Resistive Switching Memory **2021**, 211-246		4

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24	Importance of alkyl chain-length on the self-assembly of new Ni(qdt)2 complexes and charge transport properties. *RSC Advances*, **2013**, 3, 12075	3.7	2
23	Towards the Development of Flexible Non-Volatile Memories (Adv. Mater. 38/2013). *Advanced Materials*, **2013**, 25, 5424-5424	24	2
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20	Grain Boundary Confinement of Silver Imidazole for Resistive Switching. *Advanced Functional Materials*,2108598	15.6	2
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17	Introduction to photo-electroactive nonvolatile memory **2020**, 1-12		1
16	Device challenges, possible strategies, and conclusions **2020**, 317-324		1
15	Flexible Floating Gate Memory **2018**, 215-228		1

14	Nanocomposite: Poly(3-hexylthiophene)/Gold Nanoparticle Hybrid System with an Enhanced Photoresponse for Light-Controlled Electronic Devices (Part. Part. Syst. Charact. 7/2013). *Particle and Particle Systems Characterization*, **2013**, 30, 646-646	3.1	1
13	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. *Journal of Materials Chemistry C*, **2020**, 8, 16845-16857	7.1	1
12	Material Foundation for Future 5G Technology. *Accounts of Materials Research*, **2021**, 2, 306-310	7.5	1
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10	Reliability Issues of Thin Film Transistors Subject to Electrostatic Discharge Stresses: An Overview. *Advanced Electronic Materials*, **2022**, 8, 2100886	6.4	1
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		
6	Perovskites for phototunable memories and neuromorphic computing **2020**, 279-292		
5	Making allowances for COVID-19. *Science*, **2020**, 368, 98	33.3	
4	Microcontact Printing: Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories (Adv. Mater. 26/2012). *Advanced Materials*, **2012**, 24, 3555-3555	24	
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	
2	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. *Advanced Intelligent Systems*, **2021**, 3, 2170011	6	
1	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. *Advanced Electronic Materials*,2101288	6.4	