Ye Zhou

List of Publications by Year in Descending Order

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	A van der Waals Integrated Damage-Free Memristor Based on Layered 2D Hexagonal Boron Nitride.. *Small*, **2022**, e2106253	11	2
174	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	
173	Evolutionary 2D organic crystals for optoelectronic transistors and neuromorphic computing. *Neuromorphic Computing and Engineering*, **2022**, 2, 012001		3
172	Filament Engineering of Two-Dimensional h-BN for a Self-Power Mechano-Nociceptor System.. *Small*, **2022**, e2200185	11	4
171	Reliability Issues of Thin Film Transistors Subject to Electrostatic Discharge Stresses: An Overview. *Advanced Electronic Materials*, **2022**, 8, 2100886	6.4	1
170	Lewis adduct approach for self-assembled block copolymer perovskite quantum dots composite toward optoelectronic application: Challenges and prospects. *Chemical Engineering Journal*, **2021**, 431, 133701	14.7	5
169	Memristor modeling: challenges in theories, simulations, and device variability. *Journal of Materials Chemistry C*, **2021**, 9, 16859-16884	7.1	17
168	High-performance perovskite memristor by integrating a tip-shape contact. *Journal of Materials Chemistry C*, **2021**, 9, 15435-15444	7.1	2
167	Memristor-based biomimetic compound eye for real-time collision detection. *Nature Communications*, **2021**, 12, 5979	17.4	17
166	Functional Applications of Future Data Storage Devices. *Advanced Electronic Materials*, **2021**, 7, 2001181	6.4	8
165	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. *Organic Electronics*, **2021**, 90, 106062	3.5	6
164	Polymer Nanocomposites for Resistive Switching Memory **2021**, 211-246		4
163	MXenes for memristive and tactile sensory systems. *Applied Physics Reviews*, **2021**, 8, 011316	17.3	8
162	Biodegradable Polymer Nanocomposites for Electronics **2021**, 53-75		0
161	Photoferroelectric perovskite solar cells: Principles, advances and insights. *Nano Today*, **2021**, 37, 101062	17.9	16
160	Emerging MXenes for Functional Memories. *Small Science*, **2021**, 1, 2100006		19
159	Material Foundation for Future 5G Technology. *Accounts of Materials Research*, **2021**, 2, 306-310	7.5	1

158	Self-assembling crystalline peptide microrod for neuromorphic function implementation. *Matter*, **2021**, 4, 1702-1719	12.7	11
157	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
156	Novel stretchable light-emitting diodes based on conjugated-rod block elastic-coil copolymers. *Polymer International*, **2021**, 70, 426-431	3.3	7
155	Ambipolar polymers for transistor applications. *Polymer International*, **2021**, 70, 358-366	3.3	4
154	Building Functional Memories and Logic Circuits with 2D Boron Nitride. *Advanced Functional Materials*, **2021**, 31, 2004733	15.6	12
153	Optoelectronic synaptic transistors based on upconverting nanoparticles. *Journal of Materials Chemistry C*, **2021**, 9, 640-648	7.1	7
152	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. *Advanced Intelligent Systems*, **2021**, 3, 2000180	6	5
151	The Role of Metal□Organic Frameworks in Electronic Sensors. *Angewandte Chemie*, **2021**, 133, 15320-15340	3.6	4
150	The Role of Metal-Organic Frameworks in Electronic Sensors. *Angewandte Chemie - International Edition*, **2021**, 60, 15192-15212	16.4	21
149	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. *Advanced Intelligent Systems*, **2021**, 3, 2170011	6	
148	Phototunable memories and reconfigurable logic applications based on natural melanin. *Journal of Materials Chemistry C*, **2021**, 9, 3569-3577	7.1	5
147	Fermi-level depinning of 2D transition metal dichalcogenide transistors. *Journal of Materials Chemistry C*, **2021**, 9, 11407-11427	7.1	11
146	Introduction to tactile sensors **2021**, 1-12		1
145	2D oriented covalent organic frameworks for alcohol-sensory synapses. *Materials Horizons*, **2021**, 8, 2041-2049	14.4	7
144	Recent advances in metal nanoparticle-based floating gate memory. *Nano Select*, **2021**, 2, 1245-1265	3.1	14
143	Enhanced electrical and thermal properties of semi-conductive PANI-CNCs with surface modified CNCs.. *RSC Advances*, **2021**, 11, 11444-11456	3.7	2
142	Energy-efficient transistors: suppressing the subthreshold swing below the physical limit. *Materials Horizons*, **2021**, 8, 1601-1617	14.4	8
141	Synaptic transistors and neuromorphic systems based on carbon nano-materials. *Nanoscale*, **2021**, 13, 7498-7522	7.7	12

140	Exploring Phase-Change Memory: From Material Systems to Device Physics. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2000394	2.5	5
139	MXene-ZnO Memristor for Multimodal In-Sensor Computing. *Advanced Functional Materials*, **2021**, 31, 2100144	15.6	33
138	Near-Infrared Artificial Synapses for Artificial Sensory Neuron System. *Small*, **2021**, 17, e2103837	11	10
137	Stacked Two-Dimensional MXene Composites for an Energy-Efficient Memory and Digital Comparator. *ACS Applied Materials & Interfaces*, **2021**, 13, 39595-39605	9.5	7
136	Reconfigurable 2D WSe -Based Memtransistor for Mimicking Homosynaptic and Heterosynaptic Plasticity. *Small*, **2021**, 17, e2103175	11	14
135	Interface Modification in Three-Terminal Organic Memory and Synaptic Device. *Advanced Electronic Materials*, **2020**, 6, 2000641	6.4	6
134	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. *Advanced Materials*, **2020**, 32, e2003610	24	56
133	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. *ACS Applied Electronic Materials*, **2020**, 2, 1609-1618	4	9
132	Organic small molecule-based RRAM for data storage and neuromorphic computing. *Journal of Materials Chemistry C*, **2020**, 8, 12714-12738	7.1	30
131	Conjugated Copolymers through Electrospinning Synthetic Strategies and Their Versatile Applications in Sensing Environmental Toxicants, pH, Temperature, and Humidity. *Polymers*, **2020**, 12,	4.5	17
130	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. *ACS Applied Materials & Interfaces*, **2020**, 12, 15370-15379	9.5	16
129	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. *Chemical Reviews*, **2020**, 120, 3941-4006	68.1	103
128	Mimicking the competitive and cooperative behaviors with multi-terminal synaptic memtransistors. *Journal of Materials Chemistry C*, **2020**, 8, 6063-6071	7.1	10
127	Introduction to photo-electroactive nonvolatile memory **2020**, 1-12		1
126	Three-terminal optoelectronic memory device **2020**, 107-120		
125	One-dimensional materials for photoelectroactive memories and synaptic devices **2020**, 179-200		
124	Perovskites for phototunable memories and neuromorphic computing **2020**, 279-292		
123	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. *Advanced Intelligent Systems*, **2020**, 2, 2000055	6	45

122	Type-I Core-Shell ZnSe/ZnS Quantum Dot-Based Resistive Switching for Implementing Algorithm. *Nano Letters*, **2020**, 20, 5562-5569	11.5	11
121	Device challenges, possible strategies, and conclusions **2020**, 317-324		1
120	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. *Journal of Materials Chemistry C*, **2020**, 8, 2985-2992	7.1	25
119	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. *Nano Energy*, **2020**, 71, 104616	17.1	43
118	Building memory devices from biocomposite electronic materials. *Science and Technology of Advanced Materials*, **2020**, 21, 100-121	7.1	20
117	Optically Modulated Threshold Switching in Core–Shell Quantum Dot Based Memristive Device. *Advanced Functional Materials*, **2020**, 30, 1909114	15.6	25
116	Ferroelectric polymers for non-volatile memory devices: a review. *Polymer International*, **2020**, 69, 533-544	3.5	30
115	Room-temperature magnetoelastic coupling. *Science*, **2020**, 367, 627-628	33.3	5
114	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
113	Making allowances for COVID-19. *Science*, **2020**, 368, 98	33.3	
112	Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics. *Advanced Electronic Materials*, **2020**, 6, 1900765	6.4	25
111	Near infrared neuromorphic computing via upconversion-mediated optogenetics. *Nano Energy*, **2020**, 67, 104262	17.1	21
110	A UV damage-sensing nociceptive device for bionic applications. *Nanoscale*, **2020**, 12, 1484-1494	7.7	11
109	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. *Organic Electronics*, **2020**, 78, 105584	3.5	8
108	Synaptic Plasticity and Filtering Emulated in Metal–Organic Frameworks Nanosheets Based Transistors. *Advanced Electronic Materials*, **2020**, 6, 1900978	6.4	30
107	High-Performance Polycrystalline Silicon Thin-Film Transistors without Source/Drain Doping by Utilizing Anisotropic Conductivity of Bridged-Grain Lines. *Advanced Electronic Materials*, **2020**, 6, 1900961	6.4	4
106	Eco-friendly collagen-based bio-organic field effect transistor with improved memory characteristics. *Organic Electronics*, **2020**, 86, 105925	3.5	5
105	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. *Journal of Materials Chemistry C*, **2020**, 8, 16845-16857	7.1	1

104	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
103	The strategies of filament control for improving the resistive switching performance. *Journal of Materials Chemistry C*, **2020**, 8, 16295-16317	7.1	18
102	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. *Nanoscale*, **2020**, 12, 23391-23423	7.7	13
101	Template-Directed Growth of Hierarchical MOF Hybrid Arrays for Tactile Sensor. *Advanced Functional Materials*, **2020**, 30, 2001296	15.6	36
100	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. *Advanced Intelligent Systems*, **2020**, 2, 2000113	6	21
99	Electromechanical coupling effects for data storage and synaptic devices. *Nano Energy*, **2020**, 77, 105156	17.1	8
98	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. *Nano Energy*, **2020**, 74, 104828	17.1	43
97	Photonic Memristor for Future Computing: A Perspective. *Advanced Optical Materials*, **2019**, 7, 1900766	8.1	65
96	Artificial synapses emulated through a light mediated organic–inorganic hybrid transistor. *Journal of Materials Chemistry C*, **2019**, 7, 48-59	7.1	44
95	A bio-inspired electronic synapse using solution processable organic small molecule. *Journal of Materials Chemistry C*, **2019**, 7, 1491-1501	7.1	42
94	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. *Nanoscale Horizons*, **2019**, 4, 697-704	10.8	24
93	A solution processed metal–oxo cluster for rewritable resistive memory devices. *Journal of Materials Chemistry C*, **2019**, 7, 843-852	7.1	15
92	Configurable multi-state non-volatile memory behaviors in TiC nanosheets. *Nanoscale*, **2019**, 11, 7102-7110	7.9	45
91	Tunable synaptic behavior realized in C3N composite based memristor. *Nano Energy*, **2019**, 58, 293-303	17.1	71
90	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. *Advanced Functional Materials*, **2019**, 29, 1902374	15.6	95
89	Flexible Pyrene/Phenanthro[9,10-d]imidazole-Based Memristive Devices for Mimicking Synaptic Plasticity. *Advanced Intelligent Systems*, **2019**, 1, 1900008	6	22
88	Fingertip-Skin-Inspired Highly Sensitive and Multifunctional Sensor with Hierarchically Structured Conductive Graphite/Polydimethylsiloxane Foams. *Advanced Functional Materials*, **2019**, 29, 1808829	15.6	98
87	Light Driven Active Transition of Switching Modes in Homogeneous Oxides/Graphene Heterostructure. *Advanced Science*, **2019**, 6, 1900213	13.6	3

86	Functional Non-Volatile Memory Devices: From Fundamentals to Photo-Tunable Properties. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800644	2.5	20
85	Fully photon modulated heterostructure for neuromorphic computing. *Nano Energy*, **2019**, 65, 104000	17.1	45
84	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
83	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. *Journal of Materials Chemistry C*, **2019**, 7, 10203-10210	7.1	20
82	Recent Advances in Ambipolar Transistors for Functional Applications. *Advanced Functional Materials*, **2019**, 29, 1902105	15.6	86
81	Bioinspired Artificial Sensory Nerve Based on Nafion Memristor. *Advanced Functional Materials*, **2019**, 29, 1808783	15.6	140
80	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. *Advanced Electronic Materials*, **2019**, 5, 1800793	6.4	28
79	2D Metal□rganic Framework Nanosheets with Time-Dependent and Multilevel Memristive Switching. *Advanced Functional Materials*, **2019**, 29, 1806637	15.6	67
78	Near-Infrared Annihilation of Conductive Filaments in Quasiplane MoSe /Bi Se Nanosheets for Mimicking Heterosynaptic Plasticity. *Small*, **2019**, 15, e1805431	11	55
77	Controlled Nonvolatile Transition in Polyoxometalates-Graphene Oxide Hybrid Memristive Devices. *Advanced Materials Technologies*, **2019**, 4, 1800551	6.8	13
76	Artificial Synapse Emulated by Charge Trapping-Based Resistive Switching Device. *Advanced Materials Technologies*, **2019**, 4, 1800342	6.8	49
75	Flexible Floating Gate Memory **2018**, 215-228		1
74	From biomaterial-based data storage to bio-inspired artificial synapse. *Materials Today*, **2018**, 21, 537-552	21.8	159
73	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. *Small*, **2018**, 14, 1703126	11	102
72	Emerging perovskite materials for high density data storage and artificial synapses. *Journal of Materials Chemistry C*, **2018**, 6, 1600-1617	7.1	77
71	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
70	Toward non-volatile photonic memory: concept, material and design. *Materials Horizons*, **2018**, 5, 641-654	14.4	67
69	Evolutionary Metal Oxide Clusters for Novel Applications: Toward High-Density Data Storage in Nonvolatile Memories. *Advanced Materials*, **2018**, 30, 1703950	24	74

68	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. *Advanced Materials*, **2018**, 30, e1802883	24	282
67	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. *Journal of Materials Chemistry C*, **2018**, 6, 9383-9393	7.1	37
66	Phosphorene/ZnO Nano-Heterojunctions for Broadband Photonic Nonvolatile Memory Applications. *Advanced Materials*, **2018**, 30, e1801232	24	68
65	Polyoxometalates-Modulated Reduced Graphene Oxide Flash Memory with Ambipolar Trapping as Bidirectional Artificial Synapse. *Advanced Electronic Materials*, **2018**, 4, 1800444	6.4	25
64	Infrared-Sensitive Memory Based on Direct-Grown MoS -Upconversion-Nanoparticle Heterostructure. *Advanced Materials*, **2018**, 30, e1803563	24	57
63	Gate-Tunable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. *Advanced Functional Materials*, **2018**, 28, 1805599	15.6	88
62	Synergies of Electrochemical Metallization and Valance Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. *Advanced Materials*, **2018**, 30, e1800327	24	177
61	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. *Small*, **2018**, 14, e1800288	11	54
60	Biodegradable skin-inspired nonvolatile resistive switching memory based on gold nanoparticles embedded alkali lignin. *Organic Electronics*, **2018**, 59, 382-388	3.5	28
59	Phototunable Biomemory Based on Light-Mediated Charge Trap. *Advanced Science*, **2018**, 5, 1800714	13.6	75
58	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. *Advanced Science*, **2017**, 4, 1600435	13.6	135
57	Fluorinated Phosphorene: Electrochemical Synthesis, Atomistic Fluorination, and Enhanced Stability. *Small*, **2017**, 13, 1702739	11	123
56	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. *Materials Horizons*, **2017**, 4, 997-1019	14.4	250
55	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
54	An Overview of the Development of Flexible Sensors. *Advanced Materials*, **2017**, 29, 1700375	24	293
53	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
52	Solution-Processed Rare-Earth Oxide Thin Films for Alternative Gate Dielectric Application. *ACS Applied Materials & Interfaces*, **2016**, 8, 31128-31135	9.5	25
51	Hybrid Flexible Resistive Random Access Memory-Gated Transistor for Novel Nonvolatile Data Storage. *Small*, **2016**, 12, 390-6	11	32

50	Polymer-modified solution-processed metal oxide dielectrics on aluminum foil substrate for flexible organic transistors. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 2509-2517	1.6	3
49	Investigation on the mobility and stability in organic thin film transistors consisting of bilayer gate dielectrics. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 79-84	1.6	13
48	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. *Scientific Reports*, **2015**, 5, 10683	4.9	38
47	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
46	Reversible conversion of dominant polarity in ambipolar polymer/graphene oxide hybrids. *Scientific Reports*, **2015**, 5, 9446	4.9	15
45	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
44	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
43	Self-aligned, full solution process polymer field-effect transistor on flexible substrates. *Scientific Reports*, **2015**, 5, 15770	4.9	11
42	Mobility Enhancement of P3HT-Based OTFTs upon Blending with Au Nanorods. *Particle and Particle Systems Characterization*, **2015**, 32, 1051-1057	3.1	3
41	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
40	Surface engineering of reduced graphene oxide for controllable ambipolar flash memories. *ACS Applied Materials & Interfaces*, **2015**, 7, 1699-708	9.5	27
39	Dual plasmonic-enhanced bulk-heterojunction solar cell incorporating gold nanoparticles into solution-processed anode buffer layer and active layer. *Physica Status Solidi - Rapid Research Letters* , **2015**, 9, 115-119	2.5	5
38	Photo-reactive charge trapping memory based on lanthanide complex. *Scientific Reports*, **2015**, 5, 14998	4.9	27
37	Nanocomposite Dielectric Materials for Organic Flexible Electronics **2014**, 195-220		9
36	Polymorphism and electronic properties of vanadyl-phthalocyanine films. *Organic Electronics*, **2014**, 15, 1586-1591	3.5	12
35	Flash memory based on solution processed hafnium dioxide charge trapping layer. *Journal of Materials Chemistry C*, **2014**, 2, 4233-4238	7.1	10
34	The role of a nanoparticle monolayer on the flow of polymer melts in nanochannels. *Nanoscale*, **2014**, 6, 11013-8	7.7	3
33	Controlled assembly of silver nanoparticles monolayer on 3D polymer nanotubes and their applications. *Small*, **2014**, 10, 4645-50	11	10

32	Poly(3-hexylthiophene) nanotubes with tunable aspect ratios and charge transport properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 11874-81	9.5	21
31	An upconverted photonic nonvolatile memory. *Nature Communications*, **2014**, 5, 4720	17.4	108
30	Energy-band engineering for tunable memory characteristics through controlled doping of reduced graphene oxide. *ACS Nano*, **2014**, 8, 1923-31	16.7	42
29	Solution-processable graphene oxide as an insulator layer for metal–insulator–semiconductor silicon solar cells. *RSC Advances*, **2013**, 3, 17918	3.7	12
28	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
27	Flexible organic/inorganic heterojunction transistors with low operating voltage. *Journal of Materials Chemistry C*, **2013**, 1, 7073	7.1	13
26	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
25	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
24	Towards the development of flexible non-volatile memories. *Advanced Materials*, **2013**, 25, 5425-49	24	394
23	A low voltage programmable unipolar inverter with a gold nanoparticle monolayer on plastic. *Nanotechnology*, **2013**, 24, 205202	3.4	10
22	Solution processed molecular floating gate for flexible flash memories. *Scientific Reports*, **2013**, 3, 3093	4.9	48
21	Ambipolar organic light-emitting electrochemical transistor based on a heteroleptic charged iridium(III) complex. *Applied Physics Letters*, **2013**, 102, 083301	3.4	16
20	Poly(3-hexylthiophene)/Gold Nanoparticle Hybrid System with an Enhanced Photoresponse for Light-Controlled Electronic Devices. *Particle and Particle Systems Characterization*, **2013**, 30, 599-605	3.1	14
19	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
18	Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism. *Scientific Reports*, **2013**, 3, 2319	4.9	95
17	Towards the Development of Flexible Non-Volatile Memories (Adv. Mater. 38/2013). *Advanced Materials*, **2013**, 25, 5424-5424	24	2
16	Controlled ambipolar charge transport through a self-assembled gold nanoparticle monolayer. *Advanced Materials*, **2012**, 24, 1247-51	24	41
15	Polymer–nanoparticle hybrid dielectrics for flexible transistors and inverters. *Journal of Materials Chemistry*, **2012**, 22, 4060		31

14	Structure-charge transport relationship of 5,15-dialkylated porphyrins. *Chemical Communications*, **2012**, 48, 5139-41	5.8	14
13	Low voltage flexible nonvolatile memory with gold nanoparticles embedded in poly(methyl methacrylate). *Nanotechnology*, **2012**, 23, 344014	3.4	50
12	Microcontact printing of ultrahigh density gold nanoparticle monolayer for flexible flash memories. *Advanced Materials*, **2012**, 24, 3556-61	24	131
11	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	
10	Functional high-k nanocomposite dielectrics for flexible transistors and inverters with excellent mechanical properties. *Journal of Materials Chemistry*, **2012**, 22, 14246		33
9	Controllable threshold voltage shifts of polymer transistors and inverters by utilizing gold nanoparticles. *Applied Physics Letters*, **2012**, 101, 033306	3.4	30
8	Nanoparticle size dependent threshold voltage shifts in organic memory transistors. *Journal of Materials Chemistry*, **2011**, 21, 14575		74
7	Low temperature processed bilayer dielectrics for low-voltage flexible saturated load inverters. *Applied Physics Letters*, **2011**, 98, 092904	3.4	19
6	Novel high proton conductive material from liquid crystalline 4-(octadecyloxy)phenylsulfonic acid. *Journal of Materials Chemistry*, **2010**, 20, 6245		27
5	Ultrasensitive Flexible Memory Phototransistor with Detectivity of 1.8□10 13 Jones for Artificial Visual Nociceptor. *Advanced Intelligent Systems*,2100257	6	2
4	Grain Boundary Confinement of Silver Imidazole for Resistive Switching. *Advanced Functional Materials*,2108598	15.6	2
3	2D Heterostructure for High-Order Spatiotemporal Information Processing. *Advanced Functional Materials*,2108440	15.6	9
2	Bio-Inspired 3D Artificial Neuromorphic Circuits. *Advanced Functional Materials*,2113050	15.6	5
1	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. *Advanced Electronic Materials*,2101288	6.4	