

Su-Ting Han

List of Publications by Year in descending order

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times ranked

8403
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#	ARTICLE	IF	CITATIONS
1	Grain Boundary Confinement of Silver Imidazole for Resistive Switching. <i>Advanced Functional Materials</i> , 2022, 32, 2108598.	14.9	11
2	2D Heterostructure for High-Order Spatiotemporal Information Processing. <i>Advanced Functional Materials</i> , 2022, 32, 2108440.	14.9	35
3	A van der Waals Integrated Damage-Free Memristor Based on Layered 2D Hexagonal Boron Nitride. <i>Small</i> , 2022, 18, e2106253.	10.0	32
4	Evolutionary 2D organic crystals for optoelectronic transistors and neuromorphic computing. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 012001.	5.9	9
5	Ultrasensitive Flexible Memory Phototransistor with Detectivity of 1.8×10^{13} Jones for Artificial Visual Nociceptor. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	13
6	Novel charm of 2D materials engineering in memristor: when electronics encounter layered morphology. <i>Nanoscale Horizons</i> , 2022, 7, 480-507.	8.0	40
7	Filament Engineering of Two-Dimensional h-BN for a Self-Power Mechano-Nociceptor System. <i>Small</i> , 2022, 18, e2200185.	10.0	25
8	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	3
9	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1-26.	4.3	20
10	Ferroelectric coupling for dual-mode non-filamentary memristors. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	12
11	Ambipolar polymers for transistor applications. <i>Polymer International</i> , 2021, 70, 358-366.	3.1	11
12	Building Functional Memories and Logic Circuits with 2D Boron Nitride. <i>Advanced Functional Materials</i> , 2021, 31, 2004733.	14.9	22
13	Optoelectronic synaptic transistors based on upconverting nanoparticles. <i>Journal of Materials Chemistry C</i> , 2021, 9, 640-648.	5.5	16
14	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000180.	6.1	22
15	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie</i> , 2021, 133, 15320-15340.	2.0	26
16	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15192-15212.	13.8	62
17	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170011.	6.1	2
18	Phototunable memories and reconfigurable logic applications based on natural melanin. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3569-3577.	5.5	17

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19	Fermi-level depinning of 2D transition metal dichalcogenide transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11407-11427.	5.5	49
20	2D oriented covalent organic frameworks for alcohol-sensory synapses. <i>Materials Horizons</i> , 2021, 8, 2041-2049.	12.2	27
21	Recent advances in metal nanoparticle-based floating gate memory. <i>Nano Select</i> , 2021, 2, 1245-1265.	3.7	25
22	Enhanced electrical and thermal properties of semi-conductive PANI-CNCs with surface modified CNCs. <i>RSC Advances</i> , 2021, 11, 11444-11456.	3.6	7
23	Energy-efficient transistors: suppressing the subthreshold swing below the physical limit. <i>Materials Horizons</i> , 2021, 8, 1601-1617.	12.2	28
24	Synaptic transistors and neuromorphic systems based on carbon nano-materials. <i>Nanoscale</i> , 2021, 13, 7498-7522.	5.6	28
25	Exploring Phase-Change Memory: From Material Systems to Device Physics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000394.	2.4	9
26	MXene/ZnO Memristor for Multimodal In-Sensor Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2100144.	14.9	101
27	Functional Applications of Future Data Storage Devices. <i>Advanced Electronic Materials</i> , 2021, 7, 2001181.	5.1	20
28	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. <i>Organic Electronics</i> , 2021, 90, 106062.	2.6	17
29	MXenes for memristive and tactile sensory systems. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	25
30	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021, 1, 2100006.	9.9	50
31	Multimodal optoelectronic neuromorphic electronics based on lead-free perovskite-mixed carbon nanotubes. <i>Carbon</i> , 2021, 176, 592-601.	10.3	35
32	Self-assembling crystalline peptide microrod for neuromorphic function implementation. <i>Matter</i> , 2021, 4, 1702-1719.	10.0	33
33	Inorganic Perovskite Quantum Dot-Based Strain Sensors for Data Storage and In-Sensor Computing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30861-30873.	8.0	23
34	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. <i>ACS Energy Letters</i> , 2021, 6, 2809-2816.	17.4	48
35	Near-Infrared Artificial Synapses for Artificial Sensory Neuron System. <i>Small</i> , 2021, 17, e2103837.	10.0	36
36	Stacked Two-Dimensional MXene Composites for an Energy-Efficient Memory and Digital Comparator. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39595-39605.	8.0	21

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37	Reconfigurable 2D WSe ₂ -Based Memristor for Mimicking Homosynaptic and Heterosynaptic Plasticity. <i>Small</i> , 2021, 17, e2103175.	10.0	45
38	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021, 1, 2170023.	9.9	6
39	High-performance perovskite memristor by integrating a tip-shape contact. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15435-15444.	5.5	14
40	Memristor-based biomimetic compound eye for real-time collision detection. <i>Nature Communications</i> , 2021, 12, 5979.	12.8	82
41	Memristor modeling: challenges in theories, simulations, and device variability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16859-16884.	5.5	89
42	Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900765.	5.1	37
43	Near infrared neuromorphic computing via upconversion-mediated optogenetics. <i>Nano Energy</i> , 2020, 67, 104262.	16.0	50
44	A UV damage-sensing nociceptive device for bionic applications. <i>Nanoscale</i> , 2020, 12, 1484-1494.	5.6	22
45	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. <i>Organic Electronics</i> , 2020, 78, 105584.	2.6	11
46	Synaptic Plasticity and Filtering Emulated in Metal-Organic Frameworks Nanosheets Based Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1900978.	5.1	49
47	High-Performance Polycrystalline Silicon Thin-Film Transistors without Source/Drain Doping by Utilizing Anisotropic Conductivity of Bridged-Grain Lines. <i>Advanced Electronic Materials</i> , 2020, 6, 1900961.	5.1	5
48	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16845-16857.	5.5	8
49	A self-powered artificial retina perception system for image preprocessing based on photovoltaic devices and memristive arrays. <i>Nano Energy</i> , 2020, 78, 105246.	16.0	91
50	The strategies of filament control for improving the resistive switching performance. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16295-16317.	5.5	53
51	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. <i>Nanoscale</i> , 2020, 12, 23391-23423.	5.6	47
52	Template-Directed Growth of Hierarchical MOF Hybrid Arrays for Tactile Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 2001296.	14.9	80
53	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000113.	6.1	46
54	Electromechanical coupling effects for data storage and synaptic devices. <i>Nano Energy</i> , 2020, 77, 105156.	16.0	16

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55	Interface Modification in Three-Terminal Organic Memory and Synaptic Device. <i>Advanced Electronic Materials</i> , 2020, 6, 2000641.	5.1	17
56	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. <i>Advanced Materials</i> , 2020, 32, e2003610.	21.0	153
57	Organic small molecule-based RRAM for data storage and neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12714-12738.	5.5	76
58	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15370-15379.	8.0	40
59	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. <i>Chemical Reviews</i> , 2020, 120, 3941-4006.	47.7	203
60	Mimicking the competitive and cooperative behaviors with multi-terminal synaptic memtransistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6063-6071.	5.5	14
61	Three-terminal optoelectronic memory device. , 2020, , 107-120.		0
62	Perovskites for phototunable memories and neuromorphic computing. , 2020, , 279-292.		1
63	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000055.	6.1	108
64	Type-I Core-Shell ZnSe/ZnS Quantum Dot-Based Resistive Switching for Implementing Algorithm. <i>Nano Letters</i> , 2020, 20, 5562-5569.	9.1	26
65	Device challenges, possible strategies, and conclusions. , 2020, , 317-324.		1
66	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2985-2992.	5.5	41
67	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. <i>Nano Energy</i> , 2020, 71, 104616.	16.0	96
68	Building memory devices from biocomposite electronic materials. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 100-121.	6.1	39
69	Optically Modulated Threshold Switching in Core-Shell Quantum Dot Based Memristive Device. <i>Advanced Functional Materials</i> , 2020, 30, 1909114.	14.9	47
70	Artificial Synapses: Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics (<i>Adv. Electron. Mater.</i> 2/2020). <i>Advanced Electronic Materials</i> , 2020, 6, 2070007.	5.1	1
71	Ferroelectric polymers for non-volatile memory devices: a review. <i>Polymer International</i> , 2020, 69, 533-544.	3.1	62
72	Room-temperature magnetoelastic coupling. <i>Science</i> , 2020, 367, 627-628.	12.6	8

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73	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. <i>Composites Communications</i> , 2020, 19, 134-141.	6.3	81
74	Direct bandgap opening in sodium-doped antimonene quantum dots: an emerging 2D semiconductor. <i>Materials Horizons</i> , 2020, 7, 1588-1596.	12.2	19
75	Recent advances in synthesis and application of perovskite quantum dot based composites for photonics, electronics and sensors. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 278-302.	6.1	34
76	Functional Memristors: Optically Modulated Threshold Switching in Core-Shell Quantum Dot Based Memristive Device (<i>Adv. Funct. Mater.</i> 16/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070105.	14.9	3
77	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. <i>Nano Energy</i> , 2020, 74, 104828.	16.0	114
78	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019, 65, 104000.	16.0	110
79	TiO ₂ based sensor with butterfly wing configurations for fast acetone detection at room temperature. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11118-11125.	5.5	38
80	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10203-10210.	5.5	24
81	Recent Advances in Ambipolar Transistors for Functional Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1902105.	14.9	154
82	Ambipolar Transistors: Recent Advances in Ambipolar Transistors for Functional Applications (<i>Adv. Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>)	14.9	2
83	Photonic Memristor for Future Computing: A Perspective. <i>Advanced Optical Materials</i> , 2019, 7, 1900766.	7.3	130
84	Artificial synapses emulated through a light mediated organic-inorganic hybrid transistor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 48-59.	5.5	70
85	A bio-inspired electronic synapse using solution processable organic small molecule. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1491-1501.	5.5	59
86	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. <i>Nanoscale Horizons</i> , 2019, 4, 697-704.	8.0	38
87	A solution processed metal-oxo cluster for rewritable resistive memory devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 843-852.	5.5	18
88	Configurable multi-state non-volatile memory behaviors in Ti ₃ C ₂ nanosheets. <i>Nanoscale</i> , 2019, 11, 7102-7110.	5.6	69
89	Defect Reconstruction Triggered Full-Color Photodetection in Single Nanowire Phototransistor. <i>ACS Photonics</i> , 2019, 6, 886-894.	6.6	37
90	Tunable synaptic behavior realized in C3N composite based memristor. <i>Nano Energy</i> , 2019, 58, 293-303.	16.0	123

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91	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. <i>Advanced Functional Materials</i> , 2019, 29, 1902374.	14.9	149
92	Flexible Pyrene/Phenanthro[9,10- <i>cd</i>]imidazole-Based Memristive Devices for Mimicking Synaptic Plasticity. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900008.	6.1	30
93	Light Driven Active Transition of Switching Modes in Homogeneous Oxides/Graphene Heterostructure. <i>Advanced Science</i> , 2019, 6, 1900213.	11.2	5
94	Functional Non-Volatile Memory Devices: From Fundamentals to Photo-Tunable Properties. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800644.	2.4	28
95	Bioinspired Artificial Sensory Nerve Based on Nafion Memristor. <i>Advanced Functional Materials</i> , 2019, 29, 1808783.	14.9	206
96	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. <i>Advanced Electronic Materials</i> , 2019, 5, 1800793.	5.1	44
97	2D Metal-Organic Framework Nanosheets with Time-Dependent and Multilevel Memristive Switching. <i>Advanced Functional Materials</i> , 2019, 29, 1806637.	14.9	101
98	Near-Infrared Annihilation of Conductive Filaments in Quasiplane $\text{MoSe}_2/\text{Bi}_2\text{Se}_3$ Nanosheets for Mimicking Heterosynaptic Plasticity. <i>Small</i> , 2019, 15, e1805431.	10.0	85
99	Controlled Nonvolatile Transition in Polyoxometalates-Graphene Oxide Hybrid Memristive Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800551.	5.8	19
100	Artificial Synapse Emulated by Charge Trapping-Based Resistive Switching Device. <i>Advanced Materials Technologies</i> , 2019, 4, 1800342.	5.8	104
101	From biomaterial-based data storage to bio-inspired artificial synapse. <i>Materials Today</i> , 2018, 21, 537-552.	14.2	218
102	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. <i>Small</i> , 2018, 14, 1703126.	10.0	135
103	Polypyridyl chromium(<i>iii</i>) complexes for non-volatile memory application: impact of the coordination sphere on memory device performance. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1445-1450.	5.5	17
104	Emerging perovskite materials for high density data storage and artificial synapses. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1600-1617.	5.5	110
105	Highly Sensitive and Ultrastable Skin Sensors for Biopressure and Bioforce Measurements Based on Hierarchical Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4086-4094.	8.0	83
106	Interface Engineering via Photopolymerization-Induced Phase Separation for Flexible UV-Responsive Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7487-7496.	8.0	12
107	Toward non-volatile photonic memory: concept, material and design. <i>Materials Horizons</i> , 2018, 5, 641-654.	12.2	91
108	Evolutionary Metal Oxide Clusters for Novel Applications: Toward High-Density Data Storage in Nonvolatile Memories. <i>Advanced Materials</i> , 2018, 30, 1703950.	21.0	107

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109	Polyoxometalates-Modulated Reduced Graphene Oxide Flash Memory with Ambipolar Trapping as Bidirectional Artificial Synapse. <i>Advanced Electronic Materials</i> , 2018, 4, 1800444.	5.1	39
110	Infrared-Sensitive Memory Based on Direct-Grown MoS ₂ -Upconversion-Nanoparticle Heterostructure. <i>Advanced Materials</i> , 2018, 30, e1803563.	21.0	79
111	Gate-Tunable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1805599.	14.9	138
112	Charge Transfer Doping Modulated Raman Scattering and Enhanced Stability of Black Phosphorus Quantum Dots on a ZnO Nanorod. <i>Advanced Optical Materials</i> , 2018, 6, 1800440.	7.3	34
113	Synergies of Electrochemical Metallization and Valence Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. <i>Advanced Materials</i> , 2018, 30, e1800327.	21.0	246
114	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. <i>Small</i> , 2018, 14, e1800288.	10.0	68
115	Biodegradable skin-inspired nonvolatile resistive switching memory based on gold nanoparticles embedded alkali lignin. <i>Organic Electronics</i> , 2018, 59, 382-388.	2.6	48
116	Phototunable Biomemory Based on Light-Mediated Charge Trap. <i>Advanced Science</i> , 2018, 5, 1800714.	11.2	99
117	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. <i>Advanced Materials</i> , 2018, 30, e1802883.	21.0	437
118	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9383-9393.	5.5	60
119	Phosphorene/ZnO Nano-Heterojunctions for Broadband Photonic Nonvolatile Memory Applications. <i>Advanced Materials</i> , 2018, 30, e1801232.	21.0	98
120	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017, 4, 1600435.	11.2	175
121	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	12.2	296
122	Localized Surface Plasmon Resonance-Mediated Charge Trapping/Detrapping for Core-Shell Nanorod-Based Optical Memory Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34101-34110.	8.0	37
123	An Overview of the Development of Flexible Sensors. <i>Advanced Materials</i> , 2017, 29, 1700375.	21.0	483
124	Real-time storage of thermal signals in organic memory with floating core-shell nanoparticles. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8415-8423.	5.5	16
125	Polymer-modified solution-processed metal oxide dielectrics on aluminum foil substrate for flexible organic transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2509-2517.	1.8	4
126	Investigation on the mobility and stability in organic thin film transistors consisting of bilayer gate dielectrics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 79-84.	1.8	14

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127	Solution-Processed Rare-Earth Oxide Thin Films for Alternative Gate Dielectric Application. ACS Applied Materials & Interfaces, 2016, 8, 31128-31135.	8.0	32
128	Hybrid Flexible Resistive Random Access Memory-Gated Transistor for Novel Nonvolatile Data Storage. Small, 2016, 12, 390-396.	10.0	42
129	Low-voltage extended gate organic thin film transistors for ion sensing based on semi-conducting polymer electrodes. , 2016, , .		0
130	Self-aligned, full solution process polymer field-effect transistor on flexible substrates. Scientific Reports, 2015, 5, 15770.	3.3	14
131	Mobility Enhancement of P3HT-Based OTFTs upon Blending with Au Nanorods. Particle and Particle Systems Characterization, 2015, 32, 1051-1057.	2.3	6
132	CdSe/ZnS core-shell quantum dots charge trapping layer for flexible photonic memory. Journal of Materials Chemistry C, 2015, 3, 3173-3180.	5.5	46
133	Surface Engineering of Reduced Graphene Oxide for Controllable Ambipolar Flash Memories. ACS Applied Materials & Interfaces, 2015, 7, 1699-1708.	8.0	31
134	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.	2.4	5
135	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. Scientific Reports, 2015, 5, 10683.	3.3	43
136	Enhanced self-assembled monolayer treatment on polymeric gate dielectrics with ultraviolet/ozone assistance in organic thin film transistors. RSC Advances, 2015, 5, 64471-64477.	3.6	14
137	Reversible Conversion of Dominant Polarity in Ambipolar Polymer/Graphene Oxide Hybrids. Scientific Reports, 2015, 5, 9446.	3.3	19
138	Two-dimensional molybdenum disulphide nanosheet-covered metal nanoparticle array as a floating gate in multi-functional flash memories. Nanoscale, 2015, 7, 17496-17503.	5.6	28
139	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, 23464-23471.	8.0	18
140	Photo-reactive charge trapping memory based on lanthanide complex. Scientific Reports, 2015, 5, 14998.	3.3	32
141	Nanocomposite Dielectric Materials for Organic Flexible Electronics. , 2014, , 195-220.		12
142	Flash memory based on solution processed hafnium dioxide charge trapping layer. Journal of Materials Chemistry C, 2014, 2, 4233-4238.	5.5	12
143	The role of a nanoparticle monolayer on the flow of polymer melts in nanochannels. Nanoscale, 2014, 6, 11013-11018.	5.6	4
144	Controlled Assembly of Silver Nanoparticles Monolayer on 3D Polymer Nanotubes and their Applications. Small, 2014, 10, 4645-4650.	10.0	11

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145	Poly(3-hexylthiophene) Nanotubes with Tunable Aspect Ratios and Charge Transport Properties. ACS Applied Materials & Interfaces, 2014, 6, 11874-11881.	8.0	22
146	An upconverted photonic nonvolatile memory. Nature Communications, 2014, 5, 4720.	12.8	121
147	Energy-Band Engineering for Tunable Memory Characteristics through Controlled Doping of Reduced Graphene Oxide. ACS Nano, 2014, 8, 1923-1931.	14.6	47
148	Layer-by-Layer Assembled Reduced Graphene Oxide/Gold Nanoparticle Hybrid Double-Floating-Gate Structure for Low-Voltage Flexible Flash Memory. Advanced Materials, 2013, 25, 872-877.	21.0	158
149	Flexible organic/inorganic heterojunction transistors with low operating voltage. Journal of Materials Chemistry C, 2013, 1, 7073.	5.5	14
150	Importance of alkyl chain-length on the self-assembly of new Ni(qdt) ₂ complexes and charge transport properties. RSC Advances, 2013, 3, 12075.	3.6	2
151	The strain and thermal induced tunable charging phenomenon in low power flexible memory arrays with a gold nanoparticle monolayer. Nanoscale, 2013, 5, 1972.	5.6	37
152	Towards the Development of Flexible Non-Volatile Memories. Advanced Materials, 2013, 25, 5425-5449.	21.0	471
153	A low voltage programmable unipolar inverter with a gold nanoparticle monolayer on plastic. Nanotechnology, 2013, 24, 205202.	2.6	12
154	Solution processed molecular floating gate for flexible flash memories. Scientific Reports, 2013, 3, 3093.	3.3	51
155	Ambipolar organic light-emitting electrochemical transistor based on a heteroleptic charged iridium(III) complex. Applied Physics Letters, 2013, 102, .	3.3	20
156	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.	2.3	16
157	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.	2.3	1
158	Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism. Scientific Reports, 2013, 3, 2319.	3.3	106
159	Towards the Development of Flexible Non-Volatile Memories (Adv. Mater. 38/2013). Advanced Materials, 2013, 25, 5424-5424.	21.0	3
160	Controllable threshold voltage shifts of polymer transistors and inverters by utilizing gold nanoparticles. Applied Physics Letters, 2012, 101, 033306.	3.3	31
161	Polymer-nanoparticle hybrid dielectrics for flexible transistors and inverters. Journal of Materials Chemistry, 2012, 22, 4060.	6.7	32
162	Silver nanosheet-coated inverse opal film as a highly active and uniform SERS substrate. Journal of Materials Chemistry, 2012, 22, 1370-1374.	6.7	63

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163	Low voltage flexible nonvolatile memory with gold nanoparticles embedded in poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	2.6	54
164	Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories. <i>Advanced Materials</i> , 2012, 24, 3556-3561.	21.0	141
165	Microcontact Printing: Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories (<i>Adv. Mater.</i> 26/2012). <i>Advanced Materials</i> , 2012, 24, 3555-3555.	21.0	0
166	Functional high-k nanocomposite dielectrics for flexible transistors and inverters with excellent mechanical properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 14246.	6.7	37
167	Controlled Ambipolar Charge Transport Through a Self-Assembled Gold Nanoparticle Monolayer. <i>Advanced Materials</i> , 2012, 24, 1247-1251.	21.0	42
168	Nanoparticle size dependent threshold voltage shifts in organic memory transistors. <i>Journal of Materials Chemistry</i> , 2011, 21, 14575.	6.7	79
169	The floating body effect of a WSe ₂ transistor with volatile memory performance. <i>Materials Horizons</i> , 0, , .	12.2	4