

Su-Ting Han

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

165
papers

6,049
citations

42
h-index

71
g-index

173
ext. papers

7,577
ext. citations

10.7
avg, IF

6.35
L-index

#	Paper	IF	Citations
165	A van der Waals Integrated Damage-Free Memristor Based on Layered 2D Hexagonal Boron Nitride.. <i>Small</i> , 2022 , e2106253	11	2
164	Evolutionary 2D organic crystals for optoelectronic transistors and neuromorphic computing. <i>Neuromorphic Computing and Engineering</i> , 2022 , 2, 012001		3
163	Filament Engineering of Two-Dimensional h-BN for a Self-Power Mechano-Nociceptor System.. <i>Small</i> , 2022 , e2200185	11	4
162	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 1-26	4	2
161	Memristor modeling: challenges in theories, simulations, and device variability. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 16859-16884	7.1	17
160	High-performance perovskite memristor by integrating a tip-shape contact. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15435-15444	7.1	2
159	Memristor-based biomimetic compound eye for real-time collision detection. <i>Nature Communications</i> , 2021 , 12, 5979	17.4	17
158	Functional Applications of Future Data Storage Devices. <i>Advanced Electronic Materials</i> , 2021 , 7, 20011816.4		8
157	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. <i>Organic Electronics</i> , 2021 , 90, 106062	3.5	6
156	MXenes for memristive and tactile sensory systems. <i>Applied Physics Reviews</i> , 2021 , 8, 011316	17.3	8
155	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021 , 1, 2100006		19
154	Multimodal optoelectronic neuromorphic electronics based on lead-free perovskite-mixed carbon nanotubes. <i>Carbon</i> , 2021 , 176, 592-601	10.4	12
153	Self-assembling crystalline peptide microrod for neuromorphic function implementation. <i>Matter</i> , 2021 , 4, 1702-1719	12.7	11
152	Inorganic Perovskite Quantum Dot-Based Strain Sensors for Data Storage and In-Sensor Computing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30861-30873	9.5	5
151	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. <i>ACS Energy Letters</i> , 2021 , 6, 2809-2816	20.1	14
150	Ambipolar polymers for transistor applications. <i>Polymer International</i> , 2021 , 70, 358-366	3.3	4
149	Building Functional Memories and Logic Circuits with 2D Boron Nitride. <i>Advanced Functional Materials</i> , 2021 , 31, 2004733	15.6	12

148	Optoelectronic synaptic transistors based on upconverting nanoparticles. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 640-648	7.1	7
147	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000180	6	5
146	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie</i> , 2021 , 133, 15320-15340	16.4	4
145	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15192-15212	16.4	21
144	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2170011	6	
143	Phototunable memories and reconfigurable logic applications based on natural melanin. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3569-3577	7.1	5
142	Fermi-level depinning of 2D transition metal dichalcogenide transistors. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11407-11427	7.1	11
141	2D oriented covalent organic frameworks for alcohol-sensory synapses. <i>Materials Horizons</i> , 2021 , 8, 2041-2049	14.4	7
140	Recent advances in metal nanoparticle-based floating gate memory. <i>Nano Select</i> , 2021 , 2, 1245-1265	3.1	14
139	Enhanced electrical and thermal properties of semi-conductive PANI-CNCs with surface modified CNCs. <i>RSC Advances</i> , 2021 , 11, 11444-11456	3.7	2
138	Energy-efficient transistors: suppressing the subthreshold swing below the physical limit. <i>Materials Horizons</i> , 2021 , 8, 1601-1617	14.4	8
137	Synaptic transistors and neuromorphic systems based on carbon nano-materials. <i>Nanoscale</i> , 2021 , 13, 7498-7522	7.7	12
136	Exploring Phase-Change Memory: From Material Systems to Device Physics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000394	2.5	5
135	MXene-ZnO Memristor for Multimodal In-Sensor Computing. <i>Advanced Functional Materials</i> , 2021 , 31, 2100144	15.6	33
134	Near-Infrared Artificial Synapses for Artificial Sensory Neuron System. <i>Small</i> , 2021 , 17, e2103837	11	10
133	Stacked Two-Dimensional MXene Composites for an Energy-Efficient Memory and Digital Comparator. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39595-39605	9.5	7
132	Reconfigurable 2D WSe ₂ -Based Memtransistor for Mimicking Homosynaptic and Heterosynaptic Plasticity. <i>Small</i> , 2021 , 17, e2103175	11	14
131	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021 , 1, 2170023		0

130	Interface Modification in Three-Terminal Organic Memory and Synaptic Device. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000641	6.4	6
129	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. <i>Advanced Materials</i> , 2020 , 32, e2003610	24	56
128	Organic small molecule-based RRAM for data storage and neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12714-12738	7.1	30
127	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15370-15379	9.5	16
126	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. <i>Chemical Reviews</i> , 2020 , 120, 3941-4006	68.1	103
125	Mimicking the competitive and cooperative behaviors with multi-terminal synaptic memtransistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6063-6071	7.1	10
124	Three-terminal optoelectronic memory device 2020 , 107-120		
123	Perovskites for phototunable memories and neuromorphic computing 2020 , 279-292		
122	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000055	6	45
121	Type-I Core-Shell ZnSe/ZnS Quantum Dot-Based Resistive Switching for Implementing Algorithm. <i>Nano Letters</i> , 2020 , 20, 5562-5569	11.5	11
120	Device challenges, possible strategies, and conclusions 2020 , 317-324		1
119	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2985-2992	7.1	25
118	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. <i>Nano Energy</i> , 2020 , 71, 104616	17.1	43
117	Building memory devices from biocomposite electronic materials. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 100-121	7.1	20
116	Optically Modulated Threshold Switching in Core/Shell Quantum Dot Based Memristive Device. <i>Advanced Functional Materials</i> , 2020 , 30, 1909114	15.6	25
115	Ferroelectric polymers for non-volatile memory devices: a review. <i>Polymer International</i> , 2020 , 69, 533-544	34	30
114	Room-temperature magnetoelastic coupling. <i>Science</i> , 2020 , 367, 627-628	33.3	5
113	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. <i>Composites Communications</i> , 2020 , 19, 134-141	6.7	45

112	Direct bandgap opening in sodium-doped antimonene quantum dots: an emerging 2D semiconductor. <i>Materials Horizons</i> , 2020 , 7, 1588-1596	14.4	9
111	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	7.1	21
110	Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900765	6.4	25
109	Near infrared neuromorphic computing via upconversion-mediated optogenetics. <i>Nano Energy</i> , 2020 , 67, 104262	17.1	21
108	A UV damage-sensing nociceptive device for bionic applications. <i>Nanoscale</i> , 2020 , 12, 1484-1494	7.7	11
107	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. <i>Organic Electronics</i> , 2020 , 78, 105584	3.5	8
106	Synaptic Plasticity and Filtering Emulated in Metal-Organic Framework Nanosheets Based Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900978	6.4	30
105	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	6.4	4
104	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16845-16857	7.1	1
103	A self-powered artificial retina perception system for image preprocessing based on photovoltaic devices and memristive arrays. <i>Nano Energy</i> , 2020 , 78, 105246	17.1	34
102	The strategies of filament control for improving the resistive switching performance. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16295-16317	7.1	18
101	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. <i>Nanoscale</i> , 2020 , 12, 23391-23423	7.7	13
100	Template-Directed Growth of Hierarchical MOF Hybrid Arrays for Tactile Sensor. <i>Advanced Functional Materials</i> , 2020 , 30, 2001296	15.6	36
99	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000113	6	21
98	Electromechanical coupling effects for data storage and synaptic devices. <i>Nano Energy</i> , 2020 , 77, 105156	7.1	8
97	Functional Memristors: Optically Modulated Threshold Switching in Core-Shell Quantum Dot Based Memristive Device (Adv. Funct. Mater. 16/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070105	15.6	2
96	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. <i>Nano Energy</i> , 2020 , 74, 104828	17.1	43
95	Ambipolar Transistors: Recent Advances in Ambipolar Transistors for Functional Applications (Adv. Funct. Mater. 40/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970279	15.6	2

94	Photonic Memristor for Future Computing: A Perspective. <i>Advanced Optical Materials</i> , 2019 , 7, 1900766	8.1	65
93	Artificial synapses emulated through a light mediated organic/inorganic hybrid transistor. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 48-59	7.1	44
92	A bio-inspired electronic synapse using solution processable organic small molecule. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1491-1501	7.1	42
91	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. <i>Nanoscale Horizons</i> , 2019 , 4, 697-704	10.8	24
90	A solution processed metal-oxo cluster for rewritable resistive memory devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 843-852	7.1	15
89	Configurable multi-state non-volatile memory behaviors in TiC nanosheets. <i>Nanoscale</i> , 2019 , 11, 7102-7110	11.0	45
88	Defect Reconstruction Triggered Full-Color Photodetection in Single Nanowire Phototransistor. <i>ACS Photonics</i> , 2019 , 6, 886-894	6.3	23
87	Tunable synaptic behavior realized in C3N composite based memristor. <i>Nano Energy</i> , 2019 , 58, 293-303	17.1	71
86	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. <i>Advanced Functional Materials</i> , 2019 , 29, 1902374	15.6	95
85	Flexible Pyrene/Phenanthro[9,10-d]imidazole-Based Memristive Devices for Mimicking Synaptic Plasticity. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900008	6	22
84	Light Driven Active Transition of Switching Modes in Homogeneous Oxides/Graphene Heterostructure. <i>Advanced Science</i> , 2019 , 6, 1900213	13.6	3
83	Functional Non-Volatile Memory Devices: From Fundamentals to Photo-Tunable Properties. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800644	2.5	20
82	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019 , 65, 104000	17.1	45
81	TiO2 based sensor with butterfly wing configurations for fast acetone detection at room temperature. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11118-11125	7.1	23
80	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10203-10210	7.1	20
79	Recent Advances in Ambipolar Transistors for Functional Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1902105	15.6	86
78	Bioinspired Artificial Sensory Nerve Based on Nafion Memristor. <i>Advanced Functional Materials</i> , 2019 , 29, 1808783	15.6	140
77	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800793	6.4	28

76	2D Metal/Organic Framework Nanosheets with Time-Dependent and Multilevel Memristive Switching. <i>Advanced Functional Materials</i> , 2019 , 29, 1806637	15.6	67
75	Near-Infrared Annihilation of Conductive Filaments in Quasiplane MoSe ₂ /Bi ₂ Se ₃ Nanosheets for Mimicking Heterosynaptic Plasticity. <i>Small</i> , 2019 , 15, e1805431	11	55
74	Controlled Nonvolatile Transition in Polyoxometalates-Graphene Oxide Hybrid Memristive Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800551	6.8	13
73	Artificial Synapse Emulated by Charge Trapping-Based Resistive Switching Device. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800342	6.8	49
72	Flexible Floating Gate Memory 2018 , 215-228		1
71	From biomaterial-based data storage to bio-inspired artificial synapse. <i>Materials Today</i> , 2018 , 21, 537-552	1.8	159
70	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. <i>Small</i> , 2018 , 14, 1703126	11	102
69	Polypyridyl chromium(III) 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	7.1	10
68	Emerging perovskite materials for high density data storage and artificial synapses. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1600-1617	7.1	77
67	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	9.5	59
66	Interface Engineering via Photopolymerization-Induced Phase Separation for Flexible UV-Responsive Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7487-7496	9.5	7
65	Toward non-volatile photonic memory: concept, material and design. <i>Materials Horizons</i> , 2018 , 5, 641-654	4.4	67
64	Evolutionary Metal Oxide Clusters for Novel Applications: Toward High-Density Data Storage in Nonvolatile Memories. <i>Advanced Materials</i> , 2018 , 30, 1703950	24	74
63	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. <i>Advanced Materials</i> , 2018 , 30, e1802883	24	282
62	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9383-9393	7.1	37
61	Phosphorene/ZnO Nano-Heterojunctions for Broadband Photonic Nonvolatile Memory Applications. <i>Advanced Materials</i> , 2018 , 30, e1801232	24	68
60	Polyoxometalates-Modulated Reduced Graphene Oxide Flash Memory with Ambipolar Trapping as Bidirectional Artificial Synapse. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800444	6.4	25
59	Infrared-Sensitive Memory Based on Direct-Grown MoS ₂ -Upconversion-Nanoparticle Heterostructure. <i>Advanced Materials</i> , 2018 , 30, e1803563	24	57

58	Gate-Tunable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. <i>Advanced Functional Materials</i> , 2018 , 28, 1805599	15.6	88
57	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	8.1	27
56	Synergies of Electrochemical Metallization and Valance Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. <i>Advanced Materials</i> , 2018 , 30, e1800327	24	177
55	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. <i>Small</i> , 2018 , 14, e1800288	11	54
54	Biodegradable skin-inspired nonvolatile resistive switching memory based on gold nanoparticles embedded alkali lignin. <i>Organic Electronics</i> , 2018 , 59, 382-388	3.5	28
53	Phototunable Biomemory Based on Light-Mediated Charge Trap. <i>Advanced Science</i> , 2018 , 5, 1800714	13.6	75
52	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017 , 4, 1600435	13.6	135
51	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017 , 4, 997-1019	14.4	250
50	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	9.5	27
49	An Overview of the Development of Flexible Sensors. <i>Advanced Materials</i> , 2017 , 29, 1700375	24	293
48	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	7.1	16
47	Solution-Processed Rare-Earth Oxide Thin Films for Alternative Gate Dielectric Application. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31128-31135	9.5	25
46	Hybrid Flexible Resistive Random Access Memory-Gated Transistor for Novel Nonvolatile Data Storage. <i>Small</i> , 2016 , 12, 390-6	11	32
45	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	1.6	3
44	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	1.6	13
43	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. <i>Scientific Reports</i> , 2015 , 5, 10683	4.9	38
42	Enhanced self-assembled monolayer treatment on polymeric gate dielectrics with ultraviolet/ozone assistance in organic thin film transistors. <i>RSC Advances</i> , 2015 , 5, 64471-64477	3.7	14
41	Reversible conversion of dominant polarity in ambipolar polymer/graphene oxide hybrids. <i>Scientific Reports</i> , 2015 , 5, 9446	4.9	15

40	Two-dimensional molybdenum disulphide nanosheet-covered metal nanoparticle array as a floating gate in multi-functional flash memories. <i>Nanoscale</i> , 2015 , 7, 17496-503	7.7	27
39	Surface Decoration on Polymeric Gate Dielectrics for Flexible Organic Field-Effect Transistors via Hydroxylation and Subsequent Monolayer Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23464-71	9.5	18
38	Self-aligned, full solution process polymer field-effect transistor on flexible substrates. <i>Scientific Reports</i> , 2015 , 5, 15770	4.9	11
37	Mobility Enhancement of P3HT-Based OTFTs upon Blending with Au Nanorods. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 1051-1057	3.1	3
36	CdSe/ZnS core-shell quantum dots charge trapping layer for flexible photonic memory. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3173-3180	7.1	40
35	Surface engineering of reduced graphene oxide for controllable ambipolar flash memories. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1699-708	9.5	27
34	Dual plasmonic-enhanced bulk-heterojunction solar cell incorporating gold nanoparticles into solution-processed anode buffer layer and active layer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 115-119	2.5	5
33	Photo-reactive charge trapping memory based on lanthanide complex. <i>Scientific Reports</i> , 2015 , 5, 14998	4.9	27
32	Nanocomposite Dielectric Materials for Organic Flexible Electronics 2014 , 195-220		9
31	Flash memory based on solution processed hafnium dioxide charge trapping layer. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4233-4238	7.1	10
30	The role of a nanoparticle monolayer on the flow of polymer melts in nanochannels. <i>Nanoscale</i> , 2014 , 6, 11013-8	7.7	3
29	Controlled assembly of silver nanoparticles monolayer on 3D polymer nanotubes and their applications. <i>Small</i> , 2014 , 10, 4645-50	11	10
28	Poly(3-hexylthiophene) nanotubes with tunable aspect ratios and charge transport properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11874-81	9.5	21
27	An upconverted photonic nonvolatile memory. <i>Nature Communications</i> , 2014 , 5, 4720	17.4	108
26	Energy-band engineering for tunable memory characteristics through controlled doping of reduced graphene oxide. <i>ACS Nano</i> , 2014 , 8, 1923-31	16.7	42
25	Layer-by-layer-assembled reduced graphene oxide/gold nanoparticle hybrid double-floating-gate structure for low-voltage flexible flash memory. <i>Advanced Materials</i> , 2013 , 25, 872-7, 793	24	153
24	Flexible organic/inorganic heterojunction transistors with low operating voltage. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7073	7.1	13
23	Importance of alkyl chain-length on the self-assembly of new Ni(qdt) ₂ complexes and charge transport properties. <i>RSC Advances</i> , 2013 , 3, 12075	3.7	2

22	The strain and thermal induced tunable charging phenomenon in low power flexible memory arrays with a gold nanoparticle monolayer. <i>Nanoscale</i> , 2013 , 5, 1972-9	7-7	37
21	Towards the development of flexible non-volatile memories. <i>Advanced Materials</i> , 2013 , 25, 5425-49	24	394
20	A low voltage programmable unipolar inverter with a gold nanoparticle monolayer on plastic. <i>Nanotechnology</i> , 2013 , 24, 205202	3-4	10
19	Solution processed molecular floating gate for flexible flash memories. <i>Scientific Reports</i> , 2013 , 3, 3093	4-9	48
18	Ambipolar organic light-emitting electrochemical transistor based on a heteroleptic charged iridium(III) complex. <i>Applied Physics Letters</i> , 2013 , 102, 083301	3-4	16
17	Poly(3-hexylthiophene)/Gold Nanoparticle Hybrid System with an Enhanced Photoresponse for Light-Controlled Electronic Devices. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 599-605	3-1	14
16	Nanocomposite: Poly(3-hexylthiophene)/Gold Nanoparticle Hybrid System with an Enhanced Photoresponse for Light-Controlled Electronic Devices (Part. Part. Syst. Charact. 7/2013). <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 646-646	3-1	1
15	Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism. <i>Scientific Reports</i> , 2013 , 3, 2319	4-9	95
14	Towards the Development of Flexible Non-Volatile Memories (Adv. Mater. 38/2013). <i>Advanced Materials</i> , 2013 , 25, 5424-5424	24	2
13	Controlled ambipolar charge transport through a self-assembled gold nanoparticle monolayer. <i>Advanced Materials</i> , 2012 , 24, 1247-51	24	41
12	Polymer/nanoparticle hybrid dielectrics for flexible transistors and inverters. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4060		31
11	Silver nanosheet-coated inverse opal film as a highly active and uniform SERS substrate. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1370-1374		55
10	Low voltage flexible nonvolatile memory with gold nanoparticles embedded in poly(methyl methacrylate). <i>Nanotechnology</i> , 2012 , 23, 344014	3-4	50
9	Microcontact printing of ultrahigh density gold nanoparticle monolayer for flexible flash memories. <i>Advanced Materials</i> , 2012 , 24, 3556-61	24	131
8	Microcontact Printing: Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories (Adv. Mater. 26/2012). <i>Advanced Materials</i> , 2012 , 24, 3555-3555	24	
7	Functional high-k nanocomposite dielectrics for flexible transistors and inverters with excellent mechanical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14246		33
6	Controllable threshold voltage shifts of polymer transistors and inverters by utilizing gold nanoparticles. <i>Applied Physics Letters</i> , 2012 , 101, 033306	3-4	30
5	Nanoparticle size dependent threshold voltage shifts in organic memory transistors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14575		74

4	Ultrasensitive Flexible Memory Phototransistor with Detectivity of 1.8×10^{13} Jones for Artificial Visual Nociceptor. <i>Advanced Intelligent Systems</i> ,2100257	6	2
3	Grain Boundary Confinement of Silver Imidazole for Resistive Switching. <i>Advanced Functional Materials</i> ,2108598	15.6	2
2	2D Heterostructure for High-Order Spatiotemporal Information Processing. <i>Advanced Functional Materials</i> ,2108440	15.6	9
1	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. <i>Advanced Electronic Materials</i> ,2101288	6.4	