

# Su-Ting Han

## List of Publications by Year in descending order

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169  
papers

9,635  
citations

36203

51  
h-index

43802

91  
g-index

173  
all docs

173  
docs citations

173  
times ranked

8403  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview of the Development of Flexible Sensors. <i>Advanced Materials</i> , 2017, 29, 1700375.	11.1	483
2	Towards the Development of Flexible Non-Volatile Memories. <i>Advanced Materials</i> , 2013, 25, 5425-5449.	11.1	471
3	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. <i>Advanced Materials</i> , 2018, 30, e1802883.	11.1	437
4	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	6.4	296
5	Synergies of Electrochemical Metallization and Valence Change in All-Inorganic Perovskite Quantum Dots for Resistive Switching. <i>Advanced Materials</i> , 2018, 30, e1800327.	11.1	246
6	From biomaterial-based data storage to bio-inspired artificial synapse. <i>Materials Today</i> , 2018, 21, 537-552.	8.3	218
7	Bioinspired Artificial Sensory Nerve Based on Nafion Memristor. <i>Advanced Functional Materials</i> , 2019, 29, 1808783.	7.8	206
8	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. <i>Chemical Reviews</i> , 2020, 120, 3941-4006.	23.0	203
9	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017, 4, 1600435.	5.6	175
10	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, 872-877.	11.1	158
11	Recent Advances in Ambipolar Transistors for Functional Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1902105.	7.8	154
12	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. <i>Advanced Materials</i> , 2020, 32, e2003610.	11.1	153
13	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. <i>Advanced Functional Materials</i> , 2019, 29, 1902374.	7.8	149
14	Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories. <i>Advanced Materials</i> , 2012, 24, 3556-3561.	11.1	141
15	Gate-Tunable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1805599.	7.8	138
16	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. <i>Small</i> , 2018, 14, 1703126.	5.2	135
17	Photonic Memristor for Future Computing: A Perspective. <i>Advanced Optical Materials</i> , 2019, 7, 1900766.	3.6	130
18	Tunable synaptic behavior realized in C <sub>3</sub> N composite based memristor. <i>Nano Energy</i> , 2019, 58, 293-303.	8.2	123

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19	An upconverted photonic nonvolatile memory. <i>Nature Communications</i> , 2014, 5, 4720.	5.8	121
20	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. <i>Nano Energy</i> , 2020, 74, 104828.	8.2	114
21	Emerging perovskite materials for high density data storage and artificial synapses. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1600-1617.	2.7	110
22	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019, 65, 104000.	8.2	110
23	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000055.	3.3	108
24	Evolutionary Metal Oxide Clusters for Novel Applications: Toward High-Density Data Storage in Nonvolatile Memories. <i>Advanced Materials</i> , 2018, 30, 1703950.	11.1	107
25	Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism. <i>Scientific Reports</i> , 2013, 3, 2319.	1.6	106
26	Artificial Synapse Emulated by Charge Trapping-Based Resistive Switching Device. <i>Advanced Materials Technologies</i> , 2019, 4, 1800342.	3.0	104
27	2D Metal-Organic Framework Nanosheets with Time-Dependent and Multilevel Memristive Switching. <i>Advanced Functional Materials</i> , 2019, 29, 1806637.	7.8	101
28	MXene/ZnO Memristor for Multimodal In-Sensor Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2100144.	7.8	101
29	Phototunable Biomemory Based on Light-Mediated Charge Trap. <i>Advanced Science</i> , 2018, 5, 1800714.	5.6	99
30	Phosphorene/ZnO Nano-Heterojunctions for Broadband Photonic Nonvolatile Memory Applications. <i>Advanced Materials</i> , 2018, 30, e1801232.	11.1	98
31	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. <i>Nano Energy</i> , 2020, 71, 104616.	8.2	96
32	Toward non-volatile photonic memory: concept, material and design. <i>Materials Horizons</i> , 2018, 5, 641-654.	6.4	91
33	A self-powered artificial retina perception system for image preprocessing based on photovoltaic devices and memristive arrays. <i>Nano Energy</i> , 2020, 78, 105246.	8.2	91
34	Memristor modeling: challenges in theories, simulations, and device variability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16859-16884.	2.7	89
35	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.	5.2	85
36	Highly Sensitive and Ultrastable Skin Sensors for Biopressure and Bioforce Measurements Based on Hierarchical Microstructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4086-4094.	4.0	83

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37	Memristor-based biomimetic compound eye for real-time collision detection. <i>Nature Communications</i> , 2021, 12, 5979.	5.8	82
38	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. <i>Composites Communications</i> , 2020, 19, 134-141.	3.3	81
39	Template-Directed Growth of Hierarchical MOF Hybrid Arrays for Tactile Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 2001296.	7.8	80
40	Nanoparticle size dependent threshold voltage shifts in organic memory transistors. <i>Journal of Materials Chemistry</i> , 2011, 21, 14575.	6.7	79
41	Infrared-Sensitive Memory Based on Direct-Grown MoS <sub>2</sub> Upconversion Nanoparticle Heterostructure. <i>Advanced Materials</i> , 2018, 30, e1803563.	11.1	79
42	Organic small molecule-based RRAM for data storage and neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12714-12738.	2.7	76
43	Artificial synapses emulated through a light mediated organic-inorganic hybrid transistor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 48-59.	2.7	70
44	Configurable multi-state non-volatile memory behaviors in Ti <sub>3</sub> C <sub>2</sub> nanosheets. <i>Nanoscale</i> , 2019, 11, 7102-7110.	2.8	69
45	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. <i>Small</i> , 2018, 14, e1800288.	5.2	68
46	Silver nanosheet-coated inverse opal film as a highly active and uniform SERS substrate. <i>Journal of Materials Chemistry</i> , 2012, 22, 1370-1374.	6.7	68
47	Ferroelectric polymers for non-volatile memory devices: a review. <i>Polymer International</i> , 2020, 69, 533-544.	1.6	62
48	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15192-15212.	7.2	62
49	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9383-9393.	2.7	60
50	A bio-inspired electronic synapse using solution processable organic small molecule. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1491-1501.	2.7	59
51	Low voltage flexible nonvolatile memory with gold nanoparticles embedded in poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	2.3	54
52	The strategies of filament control for improving the resistive switching performance. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16295-16317.	2.7	53
53	Solution processed molecular floating gate for flexible flash memories. <i>Scientific Reports</i> , 2013, 3, 3093.	1.6	51
54	Near infrared neuromorphic computing via upconversion-mediated optogenetics. <i>Nano Energy</i> , 2020, 67, 104262.	8.2	50

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55	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021, 1, 2100006.	5.8	50
56	Synaptic Plasticity and Filtering Emulated in Metal-Organic Framework Nanosheets Based Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1900978.	2.6	49
57	Fermi-level depinning of 2D transition metal dichalcogenide transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11407-11427.	2.7	49
58	Biodegradable skin-inspired nonvolatile resistive switching memory based on gold nanoparticles embedded alkali lignin. <i>Organic Electronics</i> , 2018, 59, 382-388.	1.4	48
59	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. <i>ACS Energy Letters</i> , 2021, 6, 2809-2816.	8.8	48
60	Energy-Band Engineering for Tunable Memory Characteristics through Controlled Doping of Reduced Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 1923-1931.	7.3	47
61	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. <i>Nanoscale</i> , 2020, 12, 23391-23423.	2.8	47
62	Optically Modulated Threshold Switching in Core-Shell Quantum Dot Based Memristive Device. <i>Advanced Functional Materials</i> , 2020, 30, 1909114.	7.8	47
63	CdSe/ZnS core-shell quantum dots charge trapping layer for flexible photonic memory. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3173-3180.	2.7	46
64	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000113.	3.3	46
65	Reconfigurable 2D WSe <sub>2</sub> -Based Memtransistor for Mimicking Homosynaptic and Heterosynaptic Plasticity. <i>Small</i> , 2021, 17, e2103175.	5.2	45
66	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. <i>Advanced Electronic Materials</i> , 2019, 5, 1800793.	2.6	44
67	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. <i>Scientific Reports</i> , 2015, 5, 10683.	1.6	43
68	Controlled Ambipolar Charge Transport Through a Self-Assembled Gold Nanoparticle Monolayer. <i>Advanced Materials</i> , 2012, 24, 1247-1251.	11.1	42
69	Hybrid Flexible Resistive Random Access Memory-Gated Transistor for Novel Nonvolatile Data Storage. <i>Small</i> , 2016, 12, 390-396.	5.2	42
70	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2985-2992.	2.7	41
71	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15370-15379.	4.0	40
72	Novel charm of 2D materials engineering in memristor: when electronics encounter layered morphology. <i>Nanoscale Horizons</i> , 2022, 7, 480-507.	4.1	40

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73	Polyoxometalatesâ€Modulated Reduced Graphene Oxide Flash Memory with Ambipolar Trapping as Bidirectional Artificial Synapse. <i>Advanced Electronic Materials</i> , 2018, 4, 1800444.	2.6	39
74	Building memory devices from biocomposite electronic materials. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 100-121.	2.8	39
75	TiO <sub>2</sub> based sensor with butterfly wing configurations for fast acetone detection at room temperature. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11118-11125.	2.7	38
76	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. <i>Nanoscale Horizons</i> , 2019, 4, 697-704.	4.1	38
77	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
78	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.	2.8	37
79	Localized Surface Plasmon Resonance-Mediated Charge Trapping/Detrapping for Coreâ€Shell Nanorod-Based Optical Memory Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34101-34110.	4.0	37
80	Defect Reconstruction Triggered Full-Color Photodetection in Single Nanowire Phototransistor. <i>ACS Photonics</i> , 2019, 6, 886-894.	3.2	37
81	Nearâ€Infraredâ€Irradiationâ€Mediated Synaptic Behavior from Tunable Chargeâ€Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900765.	2.6	37
82	Nearâ€Infrared Artificial Synapses for Artificial Sensory Neuron System. <i>Small</i> , 2021, 17, e2103837.	5.2	36
83	Multimodal optoelectronic neuromorphic electronics based on lead-free perovskite-mixed carbon nanotubes. <i>Carbon</i> , 2021, 176, 592-601.	5.4	35
84	2D Heterostructure for Highâ€Order Spatiotemporal Information Processing. <i>Advanced Functional Materials</i> , 2022, 32, 2108440.	7.8	35
85	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.	3.6	34
86	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.	2.8	34
87	Self-assembling crystalline peptide microrod for neuromorphic function implementation. <i>Matter</i> , 2021, 4, 1702-1719.	5.0	33
88	Polymerâ€nanoparticle hybrid dielectrics for flexible transistors and inverters. <i>Journal of Materials Chemistry</i> , 2012, 22, 4060.	6.7	32
89	Solution-Processed Rare-Earth Oxide Thin Films for Alternative Gate Dielectric Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31128-31135.	4.0	32
90	Photo-reactive charge trapping memory based on lanthanide complex. <i>Scientific Reports</i> , 2015, 5, 14998.	1.6	32

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91	A van der Waals Integrated Damage-Free Memristor Based on Layered 2D Hexagonal Boron Nitride. <i>Small</i> , 2022, 18, e2106253.	5.2	32
92	Controllable threshold voltage shifts of polymer transistors and inverters by utilizing gold nanoparticles. <i>Applied Physics Letters</i> , 2012, 101, 033306.	1.5	31
93	Surface Engineering of Reduced Graphene Oxide for Controllable Ambipolar Flash Memories. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1699-1708.	4.0	31
94	Flexible Pyrene/Phenanthro[9,10- <i>cd</i> ]imidazole-Based Memristive Devices for Mimicking Synaptic Plasticity. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900008.	3.3	30
95	Two-dimensional molybdenum disulphide nanosheet-covered metal nanoparticle array as a floating gate in multi-functional flash memories. <i>Nanoscale</i> , 2015, 7, 17496-17503.	2.8	28
96	Functional Non-Volatile Memory Devices: From Fundamentals to Photo-Tunable Properties. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800644.	1.2	28
97	Energy-efficient transistors: suppressing the subthreshold swing below the physical limit. <i>Materials Horizons</i> , 2021, 8, 1601-1617.	6.4	28
98	Synaptic transistors and neuromorphic systems based on carbon nano-materials. <i>Nanoscale</i> , 2021, 13, 7498-7522.	2.8	28
99	2D oriented covalent organic frameworks for alcohol-sensory synapses. <i>Materials Horizons</i> , 2021, 8, 2041-2049.	6.4	27
100	Type-I Core-Shell ZnSe/ZnS Quantum Dot-Based Resistive Switching for Implementing Algorithm. <i>Nano Letters</i> , 2020, 20, 5562-5569.	4.5	26
101	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie</i> , 2021, 133, 15320-15340.	1.6	26
102	Recent advances in metal nanoparticle-based floating gate memory. <i>Nano Select</i> , 2021, 2, 1245-1265.	1.9	25
103	MXenes for memristive and tactile sensory systems. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	25
104	Filament Engineering of Two-Dimensional <i>h</i> -BN for a Self-Power Mechano-Nociceptor System. <i>Small</i> , 2022, 18, e2200185.	5.2	25
105	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10203-10210.	2.7	24
106	Inorganic Perovskite Quantum Dot-Based Strain Sensors for Data Storage and In-Sensor Computing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30861-30873.	4.0	23
107	Poly(3-hexylthiophene) Nanotubes with Tunable Aspect Ratios and Charge Transport Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11874-11881.	4.0	22
108	A UV damage-sensing nociceptive device for bionic applications. <i>Nanoscale</i> , 2020, 12, 1484-1494.	2.8	22

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109	Building Functional Memories and Logic Circuits with 2D Boron Nitride. <i>Advanced Functional Materials</i> , 2021, 31, 2004733.	7.8	22
110	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000180.	3.3	22
111	Stacked Two-Dimensional MXene Composites for an Energy-Efficient Memory and Digital Comparator. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 39595-39605.	4.0	21
112	Ambipolar organic light-emitting electrochemical transistor based on a heteroleptic charged iridium(III) complex. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	20
113	Functional Applications of Future Data Storage Devices. <i>Advanced Electronic Materials</i> , 2021, 7, 2001181.	2.6	20
114	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1-26.	2.0	20
115	Reversible Conversion of Dominant Polarity in Ambipolar Polymer/Graphene Oxide Hybrids. <i>Scientific Reports</i> , 2015, 5, 9446.	1.6	19
116	Controlled Nonvolatile Transition in Polyoxometalates-Graphene Oxide Hybrid Memristive Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800551.	3.0	19
117	Direct bandgap opening in sodium-doped antimonene quantum dots: an emerging 2D semiconductor. <i>Materials Horizons</i> , 2020, 7, 1588-1596.	6.4	19
118	Surface Decoration on Polymeric Gate Dielectrics for Flexible Organic Field-Effect Transistors via Hydroxylation and Subsequent Monolayer Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23464-23471.	4.0	18
119	A solution processed metal-oxo cluster for rewritable resistive memory devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 843-852.	2.7	18
120	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.	2.7	17
121	Interface Modification in Three-Terminal Organic Memory and Synaptic Device. <i>Advanced Electronic Materials</i> , 2020, 6, 2000641.	2.6	17
122	Phototunable memories and reconfigurable logic applications based on natural melanin. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3569-3577.	2.7	17
123	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. <i>Organic Electronics</i> , 2021, 90, 106062.	1.4	17
124	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.	1.2	16
125	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.	2.7	16
126	Electromechanical coupling effects for data storage and synaptic devices. <i>Nano Energy</i> , 2020, 77, 105156.	8.2	16



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127	Optoelectronic synaptic transistors based on upconverting nanoparticles. <i>Journal of Materials Chemistry C</i> , 2021, 9, 640-648.	2.7	16
128	Flexible organic/inorganic heterojunction transistors with low operating voltage. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7073.	2.7	14
129	Self-aligned, full solution process polymer field-effect transistor on flexible substrates. <i>Scientific Reports</i> , 2015, 5, 15770.	1.6	14
130	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.	1.7	14
131	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.	0.8	14
132	Mimicking the competitive and cooperative behaviors with multi-terminal synaptic memtransistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6063-6071.	2.7	14
133	High-performance perovskite memristor by integrating a tip-shape contact. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15435-15444.	2.7	14
134	Ultrasensitive Flexible Memory Phototransistor with Detectivity of $1.8 \times 10^{13}$ Jones for Artificial Visual Nociceptor. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	13
135	A low voltage programmable unipolar inverter with a gold nanoparticle monolayer on plastic. <i>Nanotechnology</i> , 2013, 24, 205202.	1.3	12
136	Nanocomposite Dielectric Materials for Organic Flexible Electronics. , 2014, , 195-220.		12
137	Flash memory based on solution processed hafnium dioxide charge trapping layer. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4233-4238.	2.7	12
138	Interface Engineering via Photopolymerization-Induced Phase Separation for Flexible UV-Responsive Phototransistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7487-7496.	4.0	12
139	Ferroelectric coupling for dual-mode non-filamentary memristors. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	12
140	Controlled Assembly of Silver Nanoparticles Monolayer on 3D Polymer Nanotubes and their Applications. <i>Small</i> , 2014, 10, 4645-4650.	5.2	11
141	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. <i>Organic Electronics</i> , 2020, 78, 105584.	1.4	11
142	Ambipolar polymers for transistor applications. <i>Polymer International</i> , 2021, 70, 358-366.	1.6	11
143	Grain Boundary Confinement of Silver Imidazole for Resistive Switching. <i>Advanced Functional Materials</i> , 2022, 32, 2108598.	7.8	11
144	Exploring Phase-Change Memory: From Material Systems to Device Physics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000394.	1.2	9

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145	Evolutionary 2D organic crystals for optoelectronic transistors and neuromorphic computing. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 012001.	2.8	9
146	Iridium-based polymer for memristive devices with integrated logic and arithmetic applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16845-16857.	2.7	8
147	Room-temperature magnetoelastic coupling. <i>Science</i> , 2020, 367, 627-628.	6.0	8
148	Enhanced electrical and thermal properties of semi-conductive PANI-CNCs with surface modified CNCs. <i>RSC Advances</i> , 2021, 11, 11444-11456.	1.7	7
149	Mobility Enhancement of P3HT-Based OTFTs upon Blending with Au Nanorods. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1051-1057.	1.2	6
150	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021, 1, 2170023.	5.8	6
151	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.	1.2	5
152	Light Driven Active Transition of Switching Modes in Homogeneous Oxides/Graphene Heterostructure. <i>Advanced Science</i> , 2019, 6, 1900213.	5.6	5
153	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.	2.6	5
154	The role of a nanoparticle monolayer on the flow of polymer melts in nanochannels. <i>Nanoscale</i> , 2014, 6, 11013-11018.	2.8	4
155	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.	0.8	4
156	The floating body effect of a $WSe_2$ transistor with volatile memory performance. <i>Materials Horizons</i> , 0, , .	6.4	4
157	Towards the Development of Flexible Non-Volatile Memories ( <i>Adv. Mater.</i> 38/2013). <i>Advanced Materials</i> , 2013, 25, 5424-5424.	11.1	3
158	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.	7.8	3
159	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	3
160	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.	1.7	2
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