

Su-Ting Han

List of Publications by Year in descending order

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169
papers

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citations

36303

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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.	21.0	483
2	Towards the Development of Flexible Non-volatile Memories. <i>Advanced Materials</i> , 2013, 25, 5425-5449.	21.0	471
3	Photonic Synapses Based on Inorganic Perovskite Quantum Dots for Neuromorphic Computing. <i>Advanced Materials</i> , 2018, 30, e1802883.	21.0	437
4	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	12.2	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.	21.0	246
6	From biomaterial-based data storage to bio-inspired artificial synapse. <i>Materials Today</i> , 2018, 21, 537-552.	14.2	218
7	Bioinspired Artificial Sensory Nerve Based on Nafion Memristor. <i>Advanced Functional Materials</i> , 2019, 29, 1808783.	14.9	206
8	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. <i>Chemical Reviews</i> , 2020, 120, 3941-4006.	47.7	203
9	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017, 4, 1600435.	11.2	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.	21.0	158
11	Recent Advances in Ambipolar Transistors for Functional Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1902105.	14.9	154
12	Neuromorphic Engineering: From Biological to Spike-Based Hardware Nervous Systems. <i>Advanced Materials</i> , 2020, 32, e2003610.	21.0	153
13	Mimicking Neuroplasticity in a Hybrid Biopolymer Transistor by Dual Modes Modulation. <i>Advanced Functional Materials</i> , 2019, 29, 1902374.	14.9	149
14	Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories. <i>Advanced Materials</i> , 2012, 24, 3556-3561.	21.0	141
15	Gate-Tunable Synaptic Plasticity through Controlled Polarity of Charge Trapping in Fullerene Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1805599.	14.9	138
16	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. <i>Small</i> , 2018, 14, 1703126.	10.0	135
17	Photonic Memristor for Future Computing: A Perspective. <i>Advanced Optical Materials</i> , 2019, 7, 1900766.	7.3	130
18	Tunable synaptic behavior realized in C ₃ N composite based memristor. <i>Nano Energy</i> , 2019, 58, 293-303.	16.0	123

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19	An upconverted photonic nonvolatile memory. <i>Nature Communications</i> , 2014, 5, 4720.	12.8	121
20	Leaky integrate-and-fire neurons based on perovskite memristor for spiking neural networks. <i>Nano Energy</i> , 2020, 74, 104828.	16.0	114
21	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
22	Fully photon modulated heterostructure for neuromorphic computing. <i>Nano Energy</i> , 2019, 65, 104000.	16.0	110
23	Recent Advances of Volatile Memristors: Devices, Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000055.	6.1	108
24	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
25	Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism. <i>Scientific Reports</i> , 2013, 3, 2319.	3.3	106
26	Artificial Synapse Emulated by Charge Trapping-Based Resistive Switching Device. <i>Advanced Materials Technologies</i> , 2019, 4, 1800342.	5.8	104
27	2D Metal-Organic Framework Nanosheets with Time-Dependent and Multilevel Memristive Switching. <i>Advanced Functional Materials</i> , 2019, 29, 1806637.	14.9	101
28	MXene/ZnO Memristor for Multimodal In-Sensor Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2100144.	14.9	101
29	Phototunable Biomemory Based on Light-Mediated Charge Trap. <i>Advanced Science</i> , 2018, 5, 1800714.	11.2	99
30	Phosphorene/ZnO Nano-Heterojunctions for Broadband Photonic Nonvolatile Memory Applications. <i>Advanced Materials</i> , 2018, 30, e1801232.	21.0	98
31	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. <i>Nano Energy</i> , 2020, 71, 104616.	16.0	96
32	Toward non-volatile photonic memory: concept, material and design. <i>Materials Horizons</i> , 2018, 5, 641-654.	12.2	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.	16.0	91
34	Memristor modeling: challenges in theories, simulations, and device variability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16859-16884.	5.5	89
35	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.	10.0	85
36	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

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37	Memristor-based biomimetic compound eye for real-time collision detection. Nature Communications, 2021, 12, 5979.	12.8	82
38	Extremely high thermal conductivity of carbon fiber/epoxy with synergistic effect of MXenes by freeze-drying. Composites Communications, 2020, 19, 134-141.	6.3	81
39	Template-Directed Growth of Hierarchical MOF Hybrid Arrays for Tactile Sensor. Advanced Functional Materials, 2020, 30, 2001296.	14.9	80
40	Nanoparticle size dependent threshold voltage shifts in organic memory transistors. Journal of Materials Chemistry, 2011, 21, 14575.	6.7	79
41	Infrared-Sensitive Memory Based on Direct-Grown MoS ₂ "Upconversion" Nanoparticle Heterostructure. Advanced Materials, 2018, 30, e1803563.	21.0	79
42	Organic small molecule-based RRAM for data storage and neuromorphic computing. Journal of Materials Chemistry C, 2020, 8, 12714-12738.	5.5	76
43	Artificial synapses emulated through a light mediated organic-inorganic hybrid transistor. Journal of Materials Chemistry C, 2019, 7, 48-59.	5.5	70
44	Configurable multi-state non-volatile memory behaviors in Ti ₃ C ₂ nanosheets. Nanoscale, 2019, 11, 7102-7110.	5.6	69
45	Biological Spiking Synapse Constructed from Solution Processed Bimetal Core-Shell Nanoparticle Based Composites. Small, 2018, 14, e1800288.	10.0	68
46	Silver nanosheet-coated inverse opal film as a highly active and uniform SERS substrate. Journal of Materials Chemistry, 2012, 22, 1370-1374.	6.7	68
47	Ferroelectric polymers for non-volatile memory devices: a review. Polymer International, 2020, 69, 533-544.	3.1	62
48	The Role of Metal-Organic Frameworks in Electronic Sensors. Angewandte Chemie - International Edition, 2021, 60, 15192-15212.	13.8	62
49	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. Journal of Materials Chemistry C, 2018, 6, 9383-9393.	5.5	60
50	A bio-inspired electronic synapse using solution processable organic small molecule. Journal of Materials Chemistry C, 2019, 7, 1491-1501.	5.5	59
51	Low voltage flexible nonvolatile memory with gold nanoparticles embedded in poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	2.6	54
52	The strategies of filament control for improving the resistive switching performance. Journal of Materials Chemistry C, 2020, 8, 16295-16317.	5.5	53
53	Solution processed molecular floating gate for flexible flash memories. Scientific Reports, 2013, 3, 3093.	3.3	51
54	Near infrared neuromorphic computing via upconversion-mediated optogenetics. Nano Energy, 2020, 67, 104262.	16.0	50

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55	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021, 1, 2100006.	9.9	50
56	Synaptic Plasticity and Filtering Emulated in Metal-Organic Framework Nanosheets Based Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1900978.	5.1	49
57	Fermi-level depinning of 2D transition metal dichalcogenide transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11407-11427.	5.5	49
58	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
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.	17.4	48
60	Energy-Band Engineering for Tunable Memory Characteristics through Controlled Doping of Reduced Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 1923-1931.	14.6	47
61	Recent advances in optical and optoelectronic data storage based on luminescent nanomaterials. <i>Nanoscale</i> , 2020, 12, 23391-23423.	5.6	47
62	Optically Modulated Threshold Switching in Core-Shell Quantum Dot Based Memristive Device. <i>Advanced Functional Materials</i> , 2020, 30, 1909114.	14.9	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.	5.5	46
64	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000113.	6.1	46
65	Reconfigurable 2D WSe ₂ -Based Memtransistor for Mimicking Homosynaptic and Heterosynaptic Plasticity. <i>Small</i> , 2021, 17, e2103175.	10.0	45
66	Organic Memristor Utilizing Copper Phthalocyanine Nanowires with Infrared Response and Cation Regulating Properties. <i>Advanced Electronic Materials</i> , 2019, 5, 1800793.	5.1	44
67	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. <i>Scientific Reports</i> , 2015, 5, 10683.	3.3	43
68	Controlled Ambipolar Charge Transport Through a Self-Assembled Gold Nanoparticle Monolayer. <i>Advanced Materials</i> , 2012, 24, 1247-1251.	21.0	42
69	Hybrid Flexible Resistive Random Access Memory-Gated Transistor for Novel Nonvolatile Data Storage. <i>Small</i> , 2016, 12, 390-396.	10.0	42
70	Tailoring synaptic plasticity in a perovskite QD-based asymmetric memristor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2985-2992.	5.5	41
71	Modulation of Binary Neuroplasticity in a Heterojunction-Based Ambipolar Transistor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15370-15379.	8.0	40
72	Novel charm of 2D materials engineering in memristor: when electronics encounter layered morphology. <i>Nanoscale Horizons</i> , 2022, 7, 480-507.	8.0	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.	5.1	39
74	Building memory devices from biocomposite electronic materials. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 100-121.	6.1	39
75	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
76	Keggin-type polyoxometalate cluster as an active component for redox-based nonvolatile memory. <i>Nanoscale Horizons</i> , 2019, 4, 697-704.	8.0	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.	5.6	37
79	Localized Surface Plasmon Resonance-Mediated Charge Trapping/Detrapping for Coreâ€Shell Nanorod-Based Optical Memory Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34101-34110.	8.0	37
80	Defect Reconstruction Triggered Full-Color Photodetection in Single Nanowire Phototransistor. <i>ACS Photonics</i> , 2019, 6, 886-894.	6.6	37
81	Nearâ€Infraredâ€Irradiationâ€Mediated Synaptic Behavior from Tunable Chargeâ€Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900765.	5.1	37
82	Nearâ€Infrared Artificial Synapses for Artificial Sensory Neuron System. <i>Small</i> , 2021, 17, e2103837.	10.0	36
83	Multimodal optoelectronic neuromorphic electronics based on lead-free perovskite-mixed carbon nanotubes. <i>Carbon</i> , 2021, 176, 592-601.	10.3	35
84	2D Heterostructure for Highâ€Order Spatiotemporal Information Processing. <i>Advanced Functional Materials</i> , 2022, 32, 2108440.	14.9	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.	7.3	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.	6.1	34
87	Self-assembling crystalline peptide microrod for neuromorphic function implementation. <i>Matter</i> , 2021, 4, 1702-1719.	10.0	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 & Interfaces</i> , 2016, 8, 31128-31135.	8.0	32
90	Photo-reactive charge trapping memory based on lanthanide complex. <i>Scientific Reports</i> , 2015, 5, 14998.	3.3	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.	10.0	32
92	Controllable threshold voltage shifts of polymer transistors and inverters by utilizing gold nanoparticles. <i>Applied Physics Letters</i> , 2012, 101, 033306.	3.3	31
93	Surface Engineering of Reduced Graphene Oxide for Controllable Ambipolar Flash Memories. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1699-1708.	8.0	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.	6.1	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.	5.6	28
96	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
97	Energy-efficient transistors: suppressing the subthreshold swing below the physical limit. <i>Materials Horizons</i> , 2021, 8, 1601-1617.	12.2	28
98	Synaptic transistors and neuromorphic systems based on carbon nano-materials. <i>Nanoscale</i> , 2021, 13, 7498-7522.	5.6	28
99	2D oriented covalent organic frameworks for alcohol-sensory synapses. <i>Materials Horizons</i> , 2021, 8, 2041-2049.	12.2	27
100	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
101	The Role of Metal-Organic Frameworks in Electronic Sensors. <i>Angewandte Chemie</i> , 2021, 133, 15320-15340.	2.0	26
102	Recent advances in metal nanoparticle-based floating gate memory. <i>Nano Select</i> , 2021, 2, 1245-1265.	3.7	25
103	MXenes for memristive and tactile sensory systems. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	25
104	Filament Engineering of Two-Dimensional <i>h</i> -BN for a Self-Power Mechano-Nociceptor System. <i>Small</i> , 2022, 18, e2200185.	10.0	25
105	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
106	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
107	Poly(3-hexylthiophene) Nanotubes with Tunable Aspect Ratios and Charge Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11874-11881.	8.0	22
108	A UV damage-sensing nociceptive device for bionic applications. <i>Nanoscale</i> , 2020, 12, 1484-1494.	5.6	22

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109	Building Functional Memories and Logic Circuits with 2D Boron Nitride. <i>Advanced Functional Materials</i> , 2021, 31, 2004733.	14.9	22
110	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000180.	6.1	22
111	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
112	Ambipolar organic light-emitting electrochemical transistor based on a heteroleptic charged iridium(III) complex. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	20
113	Functional Applications of Future Data Storage Devices. <i>Advanced Electronic Materials</i> , 2021, 7, 2001181.	5.1	20
114	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1-26.	4.3	20
115	Reversible Conversion of Dominant Polarity in Ambipolar Polymer/Graphene Oxide Hybrids. <i>Scientific Reports</i> , 2015, 5, 9446.	3.3	19
116	Controlled Nonvolatile Transition in Polyoxometalates-Graphene Oxide Hybrid Memristive Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800551.	5.8	19
117	Direct bandgap opening in sodium-doped antimonene quantum dots: an emerging 2D semiconductor. <i>Materials Horizons</i> , 2020, 7, 1588-1596.	12.2	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 & Interfaces</i> , 2015, 7, 23464-23471.	8.0	18
119	A solution processed metal-oxo cluster for rewritable resistive memory devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 843-852.	5.5	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.	5.5	17
121	Interface Modification in Three-Terminal Organic Memory and Synaptic Device. <i>Advanced Electronic Materials</i> , 2020, 6, 2000641.	5.1	17
122	Phototunable memories and reconfigurable logic applications based on natural melanin. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3569-3577.	5.5	17
123	Electronic synapses mimicked in bilayer organic-inorganic heterojunction based memristor. <i>Organic Electronics</i> , 2021, 90, 106062.	2.6	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.	2.3	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.	5.5	16
126	Electromechanical coupling effects for data storage and synaptic devices. <i>Nano Energy</i> , 2020, 77, 105156.	16.0	16

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127	Optoelectronic synaptic transistors based on upconverting nanoparticles. <i>Journal of Materials Chemistry C</i> , 2021, 9, 640-648.	5.5	16
128	Flexible organic/inorganic heterojunction transistors with low operating voltage. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7073.	5.5	14
129	Self-aligned, full solution process polymer field-effect transistor on flexible substrates. <i>Scientific Reports</i> , 2015, 5, 15770.	3.3	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.	3.6	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.	1.8	14
132	Mimicking the competitive and cooperative behaviors with multi-terminal synaptic memtransistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6063-6071.	5.5	14
133	High-performance perovskite memristor by integrating a tip-shape contact. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15435-15444.	5.5	14
134	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
135	A low voltage programmable unipolar inverter with a gold nanoparticle monolayer on plastic. <i>Nanotechnology</i> , 2013, 24, 205202.	2.6	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.	5.5	12
138	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
139	Ferroelectric coupling for dual-mode non-filamentary memristors. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	12
140	Controlled Assembly of Silver Nanoparticles Monolayer on 3D Polymer Nanotubes and their Applications. <i>Small</i> , 2014, 10, 4645-4650.	10.0	11
141	Fluorenone/carbazole based bipolar small molecules for non-volatile memory devices. <i>Organic Electronics</i> , 2020, 78, 105584.	2.6	11
142	Ambipolar polymers for transistor applications. <i>Polymer International</i> , 2021, 70, 358-366.	3.1	11
143	Grain Boundary Confinement of Silver Imidazole for Resistive Switching. <i>Advanced Functional Materials</i> , 2022, 32, 2108598.	14.9	11
144	Exploring Phase-Change Memory: From Material Systems to Device Physics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000394.	2.4	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.	5.9	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.	5.5	8
147	Room-temperature magnetoelastic coupling. <i>Science</i> , 2020, 367, 627-628.	12.6	8
148	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
149	Mobility Enhancement of P3HT-Based OTFTs upon Blending with Au Nanorods. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1051-1057.	2.3	6
150	Emerging MXenes for Functional Memories. <i>Small Science</i> , 2021, 1, 2170023.	9.9	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.	2.4	5
152	Light Driven Active Transition of Switching Modes in Homogeneous Oxides/Graphene Heterostructure. <i>Advanced Science</i> , 2019, 6, 1900213.	11.2	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.	5.1	5
154	The role of a nanoparticle monolayer on the flow of polymer melts in nanochannels. <i>Nanoscale</i> , 2014, 6, 11013-11018.	5.6	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.	1.8	4
156	The floating body effect of a WSe_2 transistor with volatile memory performance. <i>Materials Horizons</i> , 0, , .	12.2	4
157	Towards the Development of Flexible Non-Volatile Memories (<i>Adv. Mater.</i> 38/2013). <i>Advanced Materials</i> , 2013, 25, 5424-5424.	21.0	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.	14.9	3
159	Manipulating Strain in Transistors: From Mechanically Sensitive to Insensitive. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	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.	3.6	2
161	Ambipolar Transistors: Recent Advances in Ambipolar Transistors for Functional Applications (<i>Adv. Tj ETQq1 1 0.784314 rgBT /Overlock</i>)	14.9	2
162	Recent Progress of Protein-Based Data Storage and Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170011.	6.1	2

#	ARTICLE	IF	CITATIONS
163	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
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165	Device challenges, possible strategies, and conclusions. , 2020, , 317-324.		1
166	Artificial Synapses: Near-Infrared Radiation-Mediated Synaptic Behavior from Tunable Charge Trapping Dynamics (Adv. Electron. Mater. 2/2020). Advanced Electronic Materials, 2020, 6, 2070007.	5.1	1
167	Microcontact Printing: Microcontact Printing of Ultrahigh Density Gold Nanoparticle Monolayer for Flexible Flash Memories (Adv. Mater. 26/2012). Advanced Materials, 2012, 24, 3555-3555.	21.0	0
168	Low-voltage extended gate organic thin film transistors for ion sensing based on semi-conducting polymer electrodes. , 2016, , .		0
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