

Jie Shang

List of Publications by Year in descending order

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44
papers

2,651
citations

218677

26
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

3734
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic and hybrid resistive switching materials and devices. <i>Chemical Society Reviews</i> , 2019, 48, 1531-1565.	38.1	291
2	An Oxide Schottky Junction Artificial Optoelectronic Synapse. <i>ACS Nano</i> , 2019, 13, 2634-2642.	14.6	237
3	A skin-inspired tactile sensor for smart prosthetics. <i>Science Robotics</i> , 2018, 3, .	17.6	195
4	Thermally Stable Transparent Resistive Random Access Memory based on All-oxide Heterostructures. <i>Advanced Functional Materials</i> , 2014, 24, 2171-2179.	14.9	150
5	Waterproof, Highly Tough, and Fast Self-Healing Polyurethane for Durable Electronic Skin. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11072-11083.	8.0	149
6	A Multilevel Memory Based on Proton-Doped Polyazomethine with an Excellent Uniformity in Resistive Switching. <i>Journal of the American Chemical Society</i> , 2012, 134, 17408-17411.	13.7	136
7	Metal-organic Framework Nanofilm for Mechanically Flexible Information Storage Applications. <i>Advanced Functional Materials</i> , 2015, 25, 2677-2685.	14.9	133
8	Triphenylamine-Based Metal-organic Frameworks as Cathode Materials in Lithium-Ion Batteries with Coexistence of Redox Active Sites, High Working Voltage, and High Rate Stability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14578-14585.	8.0	121
9	A Resistance-Switchable and Ferroelectric Metal-organic Framework. <i>Journal of the American Chemical Society</i> , 2014, 136, 17477-17483.	13.7	103
10	Printable Liquid-metal@PDMS Stretchable Heater with High Stretchability and Dynamic Stability for Wearable Thermotherapy. <i>Advanced Materials Technologies</i> , 2019, 4, 1800435.	5.8	92
11	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-field-Induced Ion Transport and its Superior Metal-insulator Transition. <i>Advanced Materials</i> , 2017, 29, 1702162.	21.0	79
12	Piezocapacitive Flexible e-skin Pressure Sensors Having Magnetically Grown Microstructures. <i>Advanced Materials Technologies</i> , 2020, 5, 1900934.	5.8	78
13	Convertible resistive switching characteristics between memory switching and threshold switching in a single ferritin-based memristor. <i>Chemical Communications</i> , 2016, 52, 4828-4831.	4.1	71
14	Resistive switching effects in oxide sandwiched structures. <i>Frontiers of Materials Science</i> , 2012, 6, 183-206.	2.2	68
15	Improving Unipolar Resistive Switching Uniformity with Cone-Shaped Conducting Filaments and Its Logic-In-Memory Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6453-6462.	8.0	68
16	Synaptic plasticity and learning behaviours in flexible artificial synapse based on polymer/viologen system. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3217-3223.	5.5	61
17	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. <i>Nature Communications</i> , 2018, 9, 3813.	12.8	57
18	A Composite Elastic Conductor with High Dynamic Stability Based on 3D Calabash Bunch Conductive Network Structure for Wearable Devices. <i>Advanced Electronic Materials</i> , 2018, 4, 1800137.	5.1	57

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19	Role of oxadiazole moiety in different Dâ€™A polyazothines and related resistive switching properties. Journal of Materials Chemistry C, 2013, 1, 4556.	5.5	56
20	Intrinsically Stretchable Resistive Switching Memory Enabled by Combining a Liquid Metalâ€™Based Soft Electrode and a Metalâ€™Organic Framework Insulator. Advanced Electronic Materials, 2019, 5, 1800655.	5.1	53
21	An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. RSC Advances, 2016, 6, 25179-25184.	3.6	48
22	Recent Advances of Quantum Conductance in Memristors. Advanced Electronic Materials, 2019, 5, 1800854.	5.1	44
23	Asymmetric Structure Based Flexible Strain Sensor for Simultaneous Detection of Various Human Joint Motions. ACS Applied Electronic Materials, 2019, 1, 1866-1872.	4.3	35
24	Liquid Metalâ€™Based Strain Sensor with Ultralow Detection Limit for Humanâ€™Machine Interface Applications. Advanced Intelligent Systems, 2021, 3, 2000235.	6.1	33
25	Recyclable Liquid Metalâ€™Based Circuit on Paper. Advanced Materials Technologies, 2018, 3, 1800131.	5.8	32
26	A Wearable Capacitive Sensor Based on Ring/Diskâ€™Shaped Electrode and Porous Dielectric for Noncontact Healthcare Monitoring. Global Challenges, 2020, 4, 1900079.	3.6	29
27	Self-powered stretchable strain sensors for motion monitoring and wireless control. Nano Energy, 2022, 92, 106754.	16.0	27
28	Controlled Construction of Atomic Point Contact with 16 Quantized Conductance States in Oxide Resistive Switching Memory. ACS Applied Electronic Materials, 2019, 1, 789-798.	4.3	25
29	Bioâ€™Inspired Multiâ€™Mode Painâ€™Perceptual System (MMPPS) with Noxious Stimuli Warning, Damage Localization, and Enhanced Damage Protection. Advanced Science, 2021, 8, 2004208.	11.2	17
30	An Antifatigue Liquid Metal Composite Electrode Ionic Polymer-Metal Composite Artificial Muscle with Excellent Electromechanical Properties. ACS Applied Materials & Interfaces, 2022, 14, 14630-14639.	8.0	17
31	A flexible dual-gate hetero-synaptic transistor for spatiotemporal information processing. Nanoscale Advances, 2022, 4, 2412-2419.	4.6	13
32	A Stretchable Capacitive Strain Sensor Having Adjustable Elastic Modulus Capability for Wideâ€™Range Force Detection. Advanced Engineering Materials, 2020, 22, 1901239.	3.5	12
33	Anti-oxidative passivation and electrochemical activation of black phosphorus <i>via</i> covalent functionalization and its nonvolatile memory application. Journal of Materials Chemistry C, 2020, 8, 7309-7313.	5.5	11
34	Liquid Metal Based Nano-Composites for Printable Stretchable Electronics. Sensors, 2022, 22, 2516.	3.8	11
35	Ion transport-related resistive switching in film sandwich structures. Science Bulletin, 2014, 59, 2363-2382.	1.7	9
36	Reversible Luminescence Modulation upon an Electric Field on a Full Solid-State Device Based on Lanthanide Dimers. ACS Applied Materials & Interfaces, 2016, 8, 15551-15556.	8.0	8

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37	Strain-Insensitive Elastic Surface Electromyographic (sEMG) Electrode for Efficient Recognition of Exercise Intensities. <i>Micromachines</i> , 2020, 11, 239.	2.9	8
38	Liquid Metal-Based Strain Sensor with Ultralow Detection Limit for Human-Machine Interface Applications. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170073.	6.1	7
39	A Stretchable Capacitive Strain Sensor Having Adjustable Elastic Modulus Capability for Wide-Range Force Detection. <i>Advanced Engineering Materials</i> , 2020, 22, 2070011.	3.5	6
40	Transparent Electronics: Thermally Stable Transparent Resistive Random Access Memory based on All-Oxide Heterostructures (<i>Adv. Funct. Mater.</i> 15/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2110-2110.	14.9	2
41	Nonvolatile Memory: Metal-Organic Framework Nanofilm for Mechanically Flexible Information Storage Applications (<i>Adv. Funct. Mater.</i> 18/2015). <i>Advanced Functional Materials</i> , 2015, 25, 2630-2630.	14.9	1
42	Nanochannels: A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition (<i>Adv. Mater.</i> 39/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
43	Switching Memory: An Optoelectronic Resistive Switching Memory with Integrated Demodulating and Arithmetic Functions (<i>Adv. Mater.</i> 17/2015). <i>Advanced Materials</i> , 2015, 27, 2812-2812.	21.0	0
44	Elastic Conductors: A Composite Elastic Conductor with High Dynamic Stability Based on 3D-Calabash Bunch Conductive Network Structure for Wearable Devices (<i>Adv. Electron. Mater.</i> 9/2018). <i>Advanced Electronic Materials</i> , 2018, 4, 1870045.	5.1	0