

# 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	Self-powered stretchable strain sensors for motion monitoring and wireless control. <i>Nano Energy</i> , 2022, 92, 106754.	16.0	27
2	Liquid Metal Based Nano-Composites for Printable Stretchable Electronics. <i>Sensors</i> , 2022, 22, 2516.	3.8	11
3	An Antifatigue Liquid Metal Composite Electrode Ionic Polymer-Metal Composite Artificial Muscle with Excellent Electromechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14630-14639.	8.0	17
4	A flexible dual-gate hetero-synaptic transistor for spatiotemporal information processing. <i>Nanoscale Advances</i> , 2022, 4, 2412-2419.	4.6	13
5	Bio-Inspired Multi-Mode Pain-Perceptual System (MMPPS) with Noxious Stimuli Warning, Damage Localization, and Enhanced Damage Protection. <i>Advanced Science</i> , 2021, 8, 2004208.	11.2	17
6	Liquid Metal-Based Strain Sensor with Ultralow Detection Limit for Human-Machine Interface Applications. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000235.	6.1	33
7	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
8	A Stretchable Capacitive Strain Sensor Having Adjustable Elastic Modulus Capability for Wide-Range Force Detection. <i>Advanced Engineering Materials</i> , 2020, 22, 1901239.	3.5	12
9	Anti-oxidative passivation and electrochemical activation of black phosphorus <i>via</i> covalent functionalization and its nonvolatile memory application. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7309-7313.	5.5	11
10	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
11	A Wearable Capacitive Sensor Based on Ring/Disk-Shaped Electrode and Porous Dielectric for Noncontact Healthcare Monitoring. <i>Global Challenges</i> , 2020, 4, 1900079.	3.6	29
12	Strain-Insensitive Elastic Surface Electromyographic (sEMG) Electrode for Efficient Recognition of Exercise Intensities. <i>Micromachines</i> , 2020, 11, 239.	2.9	8
13	Waterproof, Highly Tough, and Fast Self-Healing Polyurethane for Durable Electronic Skin. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11072-11083.	8.0	149
14	Piezocapacitive Flexible E-Skin Pressure Sensors Having Magnetically Grown Microstructures. <i>Advanced Materials Technologies</i> , 2020, 5, 1900934.	5.8	78
15	Asymmetric Structure Based Flexible Strain Sensor for Simultaneous Detection of Various Human Joint Motions. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1866-1872.	4.3	35
16	Recent Advances of Quantum Conductance in Memristors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800854.	5.1	44
17	Controlled Construction of Atomic Point Contact with 16 Quantized Conductance States in Oxide Resistive Switching Memory. <i>ACS Applied Electronic Materials</i> , 2019, 1, 789-798.	4.3	25
18	An Oxide Schottky Junction Artificial Optoelectronic Synapse. <i>ACS Nano</i> , 2019, 13, 2634-2642.	14.6	237

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19	Printable Liquid@Metal@PDMS Stretchable Heater with High Stretchability and Dynamic Stability for Wearable Thermo-therapy. <i>Advanced Materials Technologies</i> , 2019, 4, 1800435.	5.8	92
20	Intrinsically Stretchable Resistive Switching Memory Enabled by Combining a Liquid Metal-Based Soft Electrode and a Metal-Organic Framework Insulator. <i>Advanced Electronic Materials</i> , 2019, 5, 1800655.	5.1	53
21	Organic and hybrid resistive switching materials and devices. <i>Chemical Society Reviews</i> , 2019, 48, 1531-1565.	38.1	291
22	Improving Unipolar Resistive Switching Uniformity with Cone-Shaped Conducting Filaments and Its Logic-In-Memory Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6453-6462.	8.0	68
23	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. <i>Nature Communications</i> , 2018, 9, 3813.	12.8	57
24	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
25	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
26	Recyclable Liquid Metal-Based Circuit on Paper. <i>Advanced Materials Technologies</i> , 2018, 3, 1800131.	5.8	32
27	A skin-inspired tactile sensor for smart prosthetics. <i>Science Robotics</i> , 2018, 3, .	17.6	195
28	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
29	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
30	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 &amp; Interfaces</i> , 2016, 8, 14578-14585.	8.0	121
31	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
32	Reversible Luminescence Modulation upon an Electric Field on a Full Solid-State Device Based on Lanthanide Dimers. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15551-15556.	8.0	8
33	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
34	An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. <i>RSC Advances</i> , 2016, 6, 25179-25184.	3.6	48
35	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
36	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

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37	Metal-Organic Framework Nanofilm for Mechanically Flexible Information Storage Applications. <i>Advanced Functional Materials</i> , 2015, 25, 2677-2685.	14.9	133
38	Transparent Electronics: Thermally Stable Transparent Resistive Random Access Memory based on Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Heterostructures ( <i>Adv. Funct. Mater.</i> 15/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2110-2110.	14.9	2
39	A Resistance-Switchable and Ferroelectric Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2014, 136, 17477-17483.	13.7	103
40	Thermally Stable Transparent Resistive Random Access Memory based on Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Heterostructures. <i>Advanced Functional Materials</i> , 2014, 24, 2171-2179.	14.9	150
41	Ion transport-related resistive switching in film sandwich structures. <i>Science Bulletin</i> , 2014, 59, 2363-2382.	1.7	9
42	Role of oxadiazole moiety in different $\beta$ -polyazothines and related resistive switching properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4556.	5.5	56
43	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
44	Resistive switching effects in oxide sandwiched structures. <i>Frontiers of Materials Science</i> , 2012, 6, 183-206.	2.2	68