

Ming Wang

List of Publications by Citations

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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.

40
papers

1,748
citations

26
h-index

41
g-index

43
ext. papers

2,469
ext. citations

18.3
avg. IF

5.12
L-index

#	Paper	IF	Citations
40	An Artificial Sensory Neuron with Tactile Perceptual Learning. <i>Advanced Materials</i> , 2018 , 30, e1801291	24	216
39	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. <i>Nature Electronics</i> , 2020 , 3, 563-570	28.4	137
38	Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. <i>Nature Communications</i> , 2019 , 10, 81	17.4	125
37	Artificial Sensory Memory. <i>Advanced Materials</i> , 2020 , 32, e1902434	24	98
36	Artificial Skin Perception. <i>Advanced Materials</i> , 2021 , 33, e2003014	24	78
35	Thermoelectric Seebeck effect in oxide-based resistive switching memory. <i>Nature Communications</i> , 2014 , 5, 4598	17.4	75
34	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018 , 30, e1706395	24	69
33	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020 , 32, e1905399	24	64
32	Combinatorial Nano-Bio Interfaces. <i>ACS Nano</i> , 2018 , 12, 5078-5084	16.7	59
31	Mechanically Interlocked Hydrogel/Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020 , 30, 1909540	15.6	55
30	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , 2017 , 29, 1701780	24	55
29	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020 , 11, 4602	17.4	55
28	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019 , 31, e1903130	24	47
27	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. <i>Advanced Materials</i> , 2018 , 30, e1802516	24	47
26	Bipolar one diode-one resistor integration for high-density resistive memory applications. <i>Nanoscale</i> , 2013 , 5, 4785-9	7.7	45
25	A supertough electro-tendon based on spider silk composites. <i>Nature Communications</i> , 2020 , 11, 1332	17.4	42
24	Aniline Tetramer-Graphene Oxide Composites for High Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2014 , 4, 1400781	21.8	38

23	Conduction mechanism of a TaO(x)-based selector and its application in crossbar memory arrays. <i>Nanoscale</i> , 2015 , 7, 4964-70	7.7	38
22	Portable Food-Freshness Prediction Platform Based on Colorimetric Barcode Combinatorics and Deep Convolutional Neural Networks. <i>Advanced Materials</i> , 2020 , 32, e2004805	24	38
21	Cyber-Physiochemical Interfaces. <i>Advanced Materials</i> , 2020 , 32, e1905522	24	37
20	An On-Skin Electrode with Anti-Epidermal-Surface-Lipid Function Based on a Zwitterionic Polymer Brush. <i>Advanced Materials</i> , 2020 , 32, e2001130	24	35
19	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. <i>Advanced Materials</i> , 2019 , 31, e1803883	24	34
18	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. <i>Advanced Materials</i> , 2020 , 32, e2003723	24	33
17	Nanomaterials Discovery and Design through Machine Learning. <i>Small Methods</i> , 2019 , 3, 1900025	12.8	33
16	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , 2020 , 11, 2183	17.4	31
15	An on-demand plant-based actuator created using conformable electrodes. <i>Nature Electronics</i> , 2021 , 4, 134-142	28.4	28
14	Fusing Stretchable Sensing Technology with Machine Learning for Human-Machine Interfaces. <i>Advanced Functional Materials</i> , 2021 , 31, 2008807	15.6	26
13	Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. <i>Advanced Materials</i> , 2020 , 32, e2001903	24	23
12	. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1556-1558	4.4	20
11	A Heterogeneously Integrated Spiking Neuron Array for Multimode-Fused Perception and Object Classification.. <i>Advanced Materials</i> , 2022 , e2200481	24	12
10	Carrier-transport-path-induced switching parameter fluctuation in oxide-based resistive switching memory. <i>Materials Research Express</i> , 2015 , 2, 046304	1.7	9
9	Progress in rectifying-based RRAM passive crossbar array. <i>Science China Technological Sciences</i> , 2011 , 54, 811-818	3.5	8
8	Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. <i>Advanced Materials</i> , 2020 , 32, e2000991	24	6
7	Emerging dynamic memristors for neuromorphic reservoir computing.. <i>Nanoscale</i> , 2021 ,	7.7	5
6	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. <i>Advanced Materials</i> , 2021 , e2106212	24	5

5	Strain-Enabled Phase Transition of Periodic Metasurfaces. <i>Advanced Materials</i> , 2021 , e2102560	24	3
4	A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics.. <i>Advanced Materials</i> , 2022 , e2101339	24	2
3	An ultra-low hysteresis, self-healing and stretchable conductor based on dynamic disulfide covalent adaptable networks. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2012-2020	13	2
2	Stretchable HfO ₂ -Based Resistive Switching Memory Using the Wavy Structured Design. <i>IEEE Electron Device Letters</i> , 2020 , 1-1	4.4	1
1	Assemblies and composites of gold nanostructures for functional devices. <i>Aggregate</i> , e57	22.9	0