

# Ming Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7648967/ming-wang-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics.. <i>Advanced Materials</i> , <b>2022</b> , e2101339	24	2
39	An ultra-low hysteresis, self-healing and stretchable conductor based on dynamic disulfide covalent adaptable networks. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2012-2020	13	2
38	A Heterogeneously Integrated Spiking Neuron Array for Multimode-Fused Perception and Object Classification.. <i>Advanced Materials</i> , <b>2022</b> , e2200481	24	12
37	Emerging dynamic memristors for neuromorphic reservoir computing.. <i>Nanoscale</i> , <b>2021</b> ,	7.7	5
36	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. <i>Advanced Materials</i> , <b>2021</b> , e2106212	24	5
35	Strain-Enabled Phase Transition of Periodic Metasurfaces. <i>Advanced Materials</i> , <b>2021</b> , e2102560	24	3
34	Fusing Stretchable Sensing Technology with Machine Learning for Human-Machine Interfaces. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008807	15.6	26
33	Artificial Skin Perception. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003014	24	78
32	An on-demand plant-based actuator created using conformable electrodes. <i>Nature Electronics</i> , <b>2021</b> , 4, 134-142	28.4	28
31	An On-Skin Electrode with Anti-Epidermal-Surface-Lipid Function Based on a Zwitterionic Polymer Brush. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001130	24	35
30	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , <b>2020</b> , 11, 2183	17.4	31
29	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. <i>Nature Electronics</i> , <b>2020</b> , 3, 563-570	28.4	137
28	A supertough electro-tendon based on spider silk composites. <i>Nature Communications</i> , <b>2020</b> , 11, 1332	17.4	42
27	Cyber-Physiochemical Interfaces. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905522	24	37
26	Mechanically Interlocked Hydrogel-Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909540	15.6	55
25	Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000991	24	6
24	Stretchable HfO <sub>2</sub> -Based Resistive Switching Memory Using the Wavy Structured Design. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 1-1	4.4	1

23	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905399	24	64
22	Portable Food-Freshness Prediction Platform Based on Colorimetric Barcode Combinatorics and Deep Convolutional Neural Networks. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004805	24	38
21	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003723	24	33
20	Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001903	24	23
19	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , <b>2020</b> , 11, 4602	17.4	55
18	Artificial Sensory Memory. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902434	24	98
17	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903130	24	47
16	Nanomaterials Discovery and Design through Machine Learning. <i>Small Methods</i> , <b>2019</b> , 3, 1900025	12.8	33
15	Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. <i>Nature Communications</i> , <b>2019</b> , 10, 81	17.4	125
14	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. <i>Advanced Materials</i> , <b>2019</b> , 31, e1803883	24	34
13	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706395	24	69
12	An Artificial Sensory Neuron with Tactile Perceptual Learning. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801291	24	216
11	Combinatorial Nano-Bio Interfaces. <i>ACS Nano</i> , <b>2018</b> , 12, 5078-5084	16.7	59
10	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802516	24	47
9	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701780	24	55
8	Carrier-transport-path-induced switching parameter fluctuation in oxide-based resistive switching memory. <i>Materials Research Express</i> , <b>2015</b> , 2, 046304	1.7	9
7	Conduction mechanism of a TaO(x)-based selector and its application in crossbar memory arrays. <i>Nanoscale</i> , <b>2015</b> , 7, 4964-70	7.7	38
6	Aniline Tetramer-Graphene Oxide Composites for High Performance Supercapacitors. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400781	21.8	38

5	Thermoelectric Seebeck effect in oxide-based resistive switching memory. <i>Nature Communications</i> , <b>2014</b> , 5, 4598	17.4	75
4	Bipolar one diode-one resistor integration for high-density resistive memory applications. <i>Nanoscale</i> , <b>2013</b> , 5, 4785-9	7.7	45
3	. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 1556-1558	4.4	20
2	Progress in rectifying-based RRAM passive crossbar array. <i>Science China Technological Sciences</i> , <b>2011</b> , 54, 811-818	3.5	8
1	Assemblies and composites of gold nanostructures for functional devices. <i>Aggregate</i> , e57	22.9	0