# Ming Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7648967/publications.pdf

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|---|---|---|---|
| 43 papers | 3,418 citations | 126901 33 h-index | 254170 43 g-index |
| 43 all docs | 43 docs citations | 43 times ranked | 3473 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An Artificial Sensory Neuron with Tactile Perceptual Learning. Advanced Materials, 2018, 30, e1801291. | 21.0 | 309 |
| 2 | Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. Nature Electronics, 2020, 3, 563-570. | 26.0 | 298 |
| 3 | Surface diffusion-limited lifetime of silver and copper nanofilaments in resistive switching devices. Nature Communications, 2019, 10, 81. | 12.8 | 204 |
| 4 | Artificial Skin Perception. Advanced Materials, 2021, 33, e2003014. | 21.0 | 203 |
| 5 | Artificial Sensory Memory. Advanced Materials, 2020, 32, e1902434. | 21.0 | 200 |
| 6 | An artificial sensory neuron with visual-haptic fusion. Nature Communications, 2020, 11, 4602. | 12.8 | 166 |
| 7 | Portable Foodâ€Freshness Prediction Platform Based on Colorimetric Barcode Combinatorics and Deep Convolutional Neural Networks. Advanced Materials, 2020, 32, e2004805. | 21.0 | 131 |
| 8 | An Artificial Somatic Reflex Arc. Advanced Materials, 2020, 32, e1905399. | 21.0 | 126 |
| 9 | Mechanically Interlocked Hydrogelâ€“Elastomer Hybrids for Onâ€Skin Electronics. Advanced Functional Materials, 2020, 30, 1909540. | 14.9 | 120 |
| 10 | Mediating Shortâ€Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. Advanced Materials, 2018, 30, e1706395. | 21.0 | 100 |
| 11 | Thermoelectric Seebeck effect in oxide-based resistive switching memory. Nature Communications, 2014, 5, 4598. | 12.8 | 92 |
| 12 | A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. Advanced Materials, 2020, 32, e2003723. | 21.0 | 86 |
| 13 | Combinatorial Nanoâ€“Bio Interfaces. ACS Nano, 2018, 12, 5078-5084. | 14.6 | 84 |
| 14 | Fusing Stretchable Sensing Technology with Machine Learning for Humanâ€“Machine Interfaces. Advanced Functional Materials, 2021, 31, 2008807. | 14.9 | 84 |
| 15 | Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. Advanced Materials, 2019, 31, e1903130. | 21.0 | 82 |
| 16 | An on-demand plant-based actuator created using conformable electrodes. Nature Electronics, 2021, 4, 134-142. | 26.0 | 81 |
| 17 | An Onâ€Skin Electrode with Antiâ€Epidermalâ€Surfaceâ€Lipid Function Based on a Zwitterionic Polymer Brush. Advanced Materials, 2020, 32, e2001130. | 21.0 | 74 |
| 18 | A supertough electro-tendon based on spider silk composites. Nature Communications, 2020, 11, 1332. | 12.8 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. Advanced Materials, 2018, 30, e1802516. | 21.0 | 70 |
| 20 | Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. Advanced Materials, 2017, 29, 1701780. | 21.0 | 68 |
| 21 | Nanomaterials Discovery and Design through Machine Learning. Small Methods, 2019, 3, 1900025. | 8.6 | 67 |
| 22 | Cyberâ€“Physiochemical Interfaces. Advanced Materials, 2020, 32, e1905522. | 21.0 | 64 |
| 23 | Devising Materials Manufacturing Toward Labâ€toâ€Fab Translation of Flexible Electronics. Advanced Materials, 2020, 32, e2001903. | 21.0 | 60 |
| 24 | Bipolar one diodeâ€“one resistor integration for high-density resistive memory applications. Nanoscale, 2013, 5, 4785. | 5.6 | 50 |
| 25 | A Heterogeneously Integrated Spiking Neuron Array for Multimodeâ€Fused Perception and Object Classification. Advanced Materials, 2022, 34, e2200481. | 21.0 | 48 |
| 26 | Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. Nature Communications, 2020, 11, 2183. | 12.8 | 47 |
| 27 | Artificial Neural Pathway Based on a Memristor Synapse for Optically Mediated Motion Learning. ACS Nano, 2022, 16, 9691-9700. | 14.6 | 47 |
| 28 | Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. Advanced Materials, 2019, 31, e1803883. | 21.0 | 45 |
| 29 | Aniline Tetramerâ€Graphene Oxide Composites for High Performance Supercapacitors. Advanced Energy Materials, 2014, 4, 1400781. | 19.5 | 44 |
| 30 | Emerging dynamic memristors for neuromorphic reservoir computing. Nanoscale, 2022, 14, 289-298. | 5.6 | 43 |
| 31 | Conduction mechanism of a TaO<sub>x</sub>-based selector and its application in crossbar memory arrays. Nanoscale, 2015, 7, 4964-4970. | 5.6 | 42 |
| 32 | Tactile Nearâ€Sensor Analogue Computing for Ultrafast Responsive Artificial Skin. Advanced Materials, 2022, 34, . | 21.0 | 42 |
| 33 | A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics. Advanced Materials, 2022, 34, e2101339. | 21.0 | 35 |
| 34 | An ultra-low hysteresis, self-healing and stretchable conductor based on dynamic disulfide covalent adaptable networks. Journal of Materials Chemistry A, 2022, 10, 2012-2020. | 10.3 | 28 |
| 35 | Investigation of One-Dimensional Thickness Scaling on $ hbox{Cu/HfO}_{x}/hbox{Pt}$ Resistive Switching Device Performance. IEEE Electron Device Letters, 2012, 33, 1556-1558. | 3.9 | 24 |
| 36 | Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. Advanced Materials, 2022, 34, e2106212. | 21.0 | 19 |

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|---|---|---|---|
| 37 | Mechanical Tolerance of Cascade Bioreactions via Adaptive Curvature Engineering for Epidermal Bioelectronics. Advanced Materials, 2020, 32, e2000991. | 21.0 | 17 |
| 38 | Progress in rectifying-based RRAM passive crossbar array. Science China Technological Sciences, 2011, 54, 811-818. | 4.0 | 11 |
| 39 | Carrier-transport-path-induced switching parameter fluctuation in oxide-based resistive switching memory. Materials Research Express, 2015, 2, 046304. | 1.6 | 10 |
| 40 | Assemblies and composites of gold nanostructures for functional devices. Aggregate, 2022, 3, e57. | 9.9 | 10 |
| 41 | Strainâ€Enabled Phase Transition of Periodic Metasurfaces. Advanced Materials, 2022, 34, e2102560. | 21.0 | 7 |
| 42 | Stretchable HfO2-Based Resistive Switching Memory Using the Wavy Structured Design. IEEE Electron Device Letters, 2020, , 1-1. | 3.9 | 4 |
| 43 | Flexible and Stretchable Memristive Arrays for in-Memory Computing. Frontiers in Nanotechnology, 2022, 3, . | 4.8 | 3 |