

Changjin Wan

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.

74
papers

3,787
citations

31
h-index

61
g-index

80
ext. papers

4,853
ext. citations

11.2
avg, IF

5.7
L-index

#	Paper	IF	Citations
74	Artificial synapse network on inorganic proton conductor for neuromorphic systems. <i>Nature Communications</i> , 2014 , 5, 3158	17.4	495
73	Highly Stretchable, Elastic, and Ionic Conductive Hydrogel for Artificial Soft Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1806220	15.6	342
72	3D Printed Photoresponsive Devices Based on Shape Memory Composites. <i>Advanced Materials</i> , 2017 , 29, 1701627	24	257
71	An Artificial Sensory Neuron with Tactile Perceptual Learning. <i>Advanced Materials</i> , 2018 , 30, e1801291	24	216
70	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018 , 30, e1706589	24	213
69	Proton-Conducting Graphene Oxide-Coupled Neuron Transistors for Brain-Inspired Cognitive Systems. <i>Advanced Materials</i> , 2016 , 28, 3557-63	24	181
68	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1800129	24	160
67	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
66	Flexible Metal Oxide/Graphene Oxide Hybrid Neuromorphic Transistors on Flexible Conducting Graphene Substrates. <i>Advanced Materials</i> , 2016 , 28, 5878-85	24	123
65	Artificial Sensory Memory. <i>Advanced Materials</i> , 2020 , 32, e1902434	24	98
64	Artificial Skin Perception. <i>Advanced Materials</i> , 2021 , 33, e2003014	24	78
63	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018 , 30, e1706395	24	69
62	Water-Resistant Conformal Hybrid Electrodes for Aquatic Endurable Electrocardiographic Monitoring. <i>Advanced Materials</i> , 2020 , 32, e2001496	24	66
61	Synaptic Behaviors Mimicked in Flexible Oxide-Based Transistors on Plastic Substrates. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1433-1435	4.4	64
60	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020 , 32, e1905399	24	64
59	Short-Term Synaptic Plasticity Regulation in Solution-Gated Indium-Gallium-Zinc-Oxide Electric-Double-Layer Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9762-8	9.5	63
58	Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. <i>Scientific Reports</i> , 2015 , 5, 18082	4.9	60

57	2D Material Chemistry: Graphdiyne-based Biochemical Sensing. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 622-630	2.2	60
56	Memory and learning behaviors mimicked in nanogranular SiO ₂ -based proton conductor gated oxide-based synaptic transistors. <i>Nanoscale</i> , 2013 , 5, 10194-9	7.7	59
55	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring 2020 , 2, 478-484		55
54	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020 , 11, 4602	17.4	55
53	Inorganic proton conducting electrolyte coupled oxide-based dendritic transistors for synaptic electronics. <i>Nanoscale</i> , 2014 , 6, 4491-7	7.7	48
52	Ultrafast Formation of Free-Standing 2D Carbon Nanotube Thin Films through Capillary Force Driving Compression on an Air/Water Interface. <i>Chemistry of Materials</i> , 2016 , 28, 7125-7133	9.6	47
51	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019 , 31, e1903130	24	47
50	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. <i>Advanced Materials</i> , 2018 , 30, e1802516	24	47
49	Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21770-5	9.5	41
48	2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet. <i>Advanced Functional Materials</i> , 2015 , 25, 2428-2435	15.6	38
47	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
46	Bioinspired Ionic Sensory Systems: The Successor of Electronics. <i>Advanced Materials</i> , 2020 , 32, e2000218	24	35
45	High-Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900347	6.4	33
44	Organic/inorganic hybrid synaptic transistors gated by proton conducting methylcellulose films. <i>Applied Physics Letters</i> , 2016 , 108, 043508	3.4	33
43	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
42	Multifunctional Logic Demonstrated in a Flexible Multigate Oxide-Based Electric-Double-Layer Transistor on Paper Substrate. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600509	6.4	30
41	Hodgkin-Huxley Artificial Synaptic Membrane Based on Protonic/Electronic Hybrid Neuromorphic Transistors. <i>Advanced Biology</i> , 2018 , 2, 1700198	3.5	30
40	Short-Term Memory to Long-Term Memory Transition Mimicked in IZO Homo Junction Synaptic Transistors. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1581-1583	4.4	30

39	Proton Conducting Graphene Oxide/Chitosan Composite Electrolytes as Gate Dielectrics for New-Concept Devices. <i>Scientific Reports</i> , 2016 , 6, 34065	4.9	26
38	The Rise of Bioinspired Ionotronics. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900073	6	25
37	Multi-gate synergic modulation in laterally coupled synaptic transistors. <i>Applied Physics Letters</i> , 2015 , 107, 143502	3.4	25
36	Tungsten oxide proton conducting films for low-voltage transparent oxide-based thin-film transistors. <i>Applied Physics Letters</i> , 2013 , 102, 052905	3.4	23
35	Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. <i>Advanced Materials</i> , 2020 , 32, e2001903	24	23
34	Classical Conditioning Mimicked in Junctionless IZO Electric-Double-Layer Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2014 , 35, 414-416	4.4	22
33	Transient characteristics for proton gating in laterally coupled indium-zinc-oxide transistors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6205-10	9.5	21
32	Highly Thermal-Wet Comfortable and Conformal Silk-Based Electrodes for On-Skin Sensors with Sweat Tolerance. <i>ACS Nano</i> , 2021 , 15, 9955-9966	16.7	21
31	Hexamethylene diisocyanate as an electrolyte additive for high-energy density lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8246-8249	13	17
30	Indium-Zinc-Oxide Neuron Thin Film Transistors Laterally Coupled by Sodium Alginate Electrolytes. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 3958-3963	2.9	12
29	Differential Homeostasis of Sessile and Pendant Epithelium Reconstituted in a 3D-Printed "GeminiChip". <i>Advanced Materials</i> , 2019 , 31, e1900514	24	11
28	Low-voltage protonic/electronic hybrid indium zinc oxide synaptic transistors on paper substrates. <i>Nanotechnology</i> , 2014 , 25, 094001	3.4	10
27	A Photoelectric Spiking Neuron for Visual Depth Perception.. <i>Advanced Materials</i> , 2022 , e2201895	24	10
26	Laterally Coupled Synaptic Transistors Gated by Proton Conducting Sodium Alginate Films. <i>IEEE Electron Device Letters</i> , 2014 , 35, 672-674	4.4	9
25	Electrolyte Gated Oxide Pseudodiode for Inhibitory Synapse Applications. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800371	6.4	8
24	Electrolyte-gated neuromorphic transistors for brain-like dynamic computing. <i>Journal of Applied Physics</i> , 2021 , 130, 190904	2.5	8
23	. <i>IEEE Electron Device Letters</i> , 2016 , 37, 591-594	4.4	7
22	Proton induced multilevel storage capability in self-assembled indium-zinc-oxide thin-film transistors. <i>Applied Physics Letters</i> , 2013 , 103, 113503	3.4	7

21	Excitatory Post-Synaptic Potential Mimicked in Indium-Zinc-Oxide Synaptic Transistors Gated by Methyl Cellulose Solid Electrolyte. <i>Scientific Reports</i> , 2016 , 6, 38578	4.9	7
20	3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600867	4.6	5
19	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. <i>Advanced Materials</i> , 2021 , e2106212	24	5
18	A Spiking Stochastic Neuron Based on Stacked InGaZnO Memristors. <i>Advanced Electronic Materials</i> , 2021 , 10, 2100418	6.1	5
17	Indium-Gallium-Zinc-Oxide Based Photoelectric Neuromorphic Transistors for Modulable Photoexcited Corneal Nociceptor Emulation. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100487	6.4	5
16	Recent advances in emerging neuromorphic computing and perception devices. <i>Journal Physics D: Applied Physics</i> ,	3	5
15	Emerging Devices for Biologically Accurate Neuron. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 389-397	4	4
14	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem.. <i>Research</i> , 2021 , 2021, 9820502	7.8	4
13	High-Performance Amorphous InGaZnO Thin-Film Transistor Gated by HfAlOx Dielectric With Ultralow Subthreshold Swing. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 6154-6158	2.9	3
12	IGZO-based neuromorphic transistors with temperature-dependent synaptic plasticity and spiking logics. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	2
11	Electric-Double-Layer Coupled Oxide-Based Neuromorphic Transistors Studies. <i>Springer Theses</i> , 2019 ,	0.1	1
10	Spontaneous Polarity Flipping in a 2D Heterobilayer Induced by Fluctuating Interfacial Carrier Flows. <i>Nano Letters</i> , 2021 , 21, 6773-6780	11.5	1
9	HfZrOx-based capacitive synapses with highly linear and symmetric multilevel characteristics for neuromorphic computing. <i>Applied Physics Letters</i> , 2022 , 120, 113504	3.4	1
8	Freestanding multi-gate IZO-based neuromorphic transistors on composite electrolyte membranes. <i>Flexible and Printed Electronics</i> , 2021 , 6, 044008	3.1	1
7	Photoelectric Synapse Based on InGaZnO Nanofibers for High Precision Neuromorphic Computing. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	0
6	Thin Films: 2D Janus Hybrid Materials of Polymer-Grafted Carbon Nanotube/Graphene Oxide Thin Film as Flexible, Miniature Electric Carpet (Adv. Funct. Mater. 16/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 2479-2479	15.6	
5	Conclusion and Perspective. <i>Springer Theses</i> , 2019 , 99-101	0.1	
4	Oxide Based EDL Transistors for Mimicking Synapse Functions. <i>Springer Theses</i> , 2019 , 55-75	0.1	

- 3 Oxide-Based EDL Transistors for Neuromorphic Computing Applications. *Springer Theses*, **2019**, 77-97 0.1
- 2 Fabrications and Characterizations of Oxide Based EDL Transistors. *Springer Theses*, **2019**, 33-53 0.1
- 1 Neuromorphic Perceptual Systems with Emerging Devices **2022**, 217-233