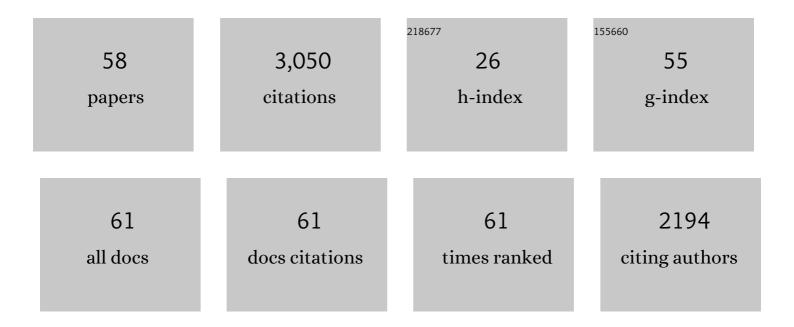
Li Qiang Zhu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Artificial synapse network on inorganic proton conductor for neuromorphic systems. Nature Communications, 2014, 5, 3158.	12.8	655
2	Freestanding Artificial Synapses Based on Laterally Protonâ€Coupled Transistors on Chitosan Membranes. Advanced Materials, 2015, 27, 5599-5604.	21.0	352
3	Protonâ€Conducting Graphene Oxideâ€Coupled Neuron Transistors for Brainâ€Inspired Cognitive Systems. Advanced Materials, 2016, 28, 3557-3563.	21.0	226
4	Flexible Metal Oxide/Graphene Oxide Hybrid Neuromorphic Transistors on Flexible Conducting Graphene Substrates. Advanced Materials, 2016, 28, 5878-5885.	21.0	144
5	Restickable Oxide Neuromorphic Transistors with Spikeâ€īimingâ€Đependent Plasticity and Pavlovian Associative Learning Activities. Advanced Functional Materials, 2018, 28, 1804025.	14.9	139
6	Chitosan-Based Polysaccharide-Gated Flexible Indium Tin Oxide Synaptic Transistor with Learning Abilities. ACS Applied Materials & Interfaces, 2018, 10, 16881-16886.	8.0	120
7	Role of Oxygen Vacancies at the TiO ₂ /HfO ₂ Interface in Flexible Oxideâ€Based Resistive Switching Memory. Advanced Electronic Materials, 2019, 5, 1800833.	5.1	105
8	Short-Term Synaptic Plasticity Regulation in Solution-Gated Indium–Gallium–Zinc-Oxide Electric-Double-Layer Transistors. ACS Applied Materials & Interfaces, 2016, 8, 9762-9768.	8.0	81
9	Self-assembled dual in-plane gate thin-film transistors gated by nanogranular SiO2 proton conductors for logic applications. Nanoscale, 2013, 5, 1980.	5.6	73
10	Memory and learning behaviors mimicked in nanogranular SiO2-based proton conductor gated oxide-based synaptic transistors. Nanoscale, 2013, 5, 10194.	5.6	72
11	Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. Scientific Reports, 2015, 5, 18082.	3.3	70
12	Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. ACS Applied Materials & Interfaces, 2016, 8, 21770-21775.	8.0	55
13	Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. ACS Applied Materials & Interfaces, 2020, 12, 26258-26266.	8.0	55
14	Oxide-based Synaptic Transistors Gated by Sol–Gel Silica Electrolytes. ACS Applied Materials & Interfaces, 2016, 8, 3050-3055.	8.0	52
15	Dendrite Integration Mimicked on Starch-Based Electrolyte-Gated Oxide Dendrite Transistors. ACS Applied Materials & Interfaces, 2018, 10, 40008-40013.	8.0	49
16	Proton conducting sodium alginate electrolyte laterally coupled low-voltage oxide-based transistors. Applied Physics Letters, 2014, 104, 133504.	3.3	46
17	Activity Dependent Synaptic Plasticity Mimicked on Indium–Tin–Oxide Electric-Double-Layer Transistor. ACS Applied Materials & Interfaces, 2017, 9, 37064-37069.	8.0	46
18	Oxide Neuromorphic Transistors Gated by Polyvinyl Alcohol Solid Electrolytes with Ultralow Power Consumption. ACS Applied Materials & Interfaces, 2019, 11, 28352-28358.	8.0	46

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#	Article	IF	CITATIONS
19	Bilayered Oxideâ€Based Cognitive Memristor with Brainâ€Inspired Learning Activities. Advanced Electronic Materials, 2019, 5, 1900439.	5.1	43
20	Laterally Coupled Dual-Gate Oxide-Based Transistors on Sodium Alginate Electrolytes. IEEE Electron Device Letters, 2014, 35, 1257-1259.	3.9	42
21	Hodgkin–Huxley Artificial Synaptic Membrane Based on Protonic/Electronic Hybrid Neuromorphic Transistors. Advanced Biology, 2018, 2, 1700198.	3.0	41
22	Threshold-Tunable, Spike-Rate-Dependent Plasticity Originating from Interfacial Proton Gating for Pattern Learning and Memory. ACS Applied Materials & Interfaces, 2020, 12, 7833-7839.	8.0	41
23	Atomic layer deposited Al2O3 films for anti-reflectance and surface passivation applications. Applied Surface Science, 2014, 288, 430-434.	6.1	34
24	Multi-gate synergic modulation in laterally coupled synaptic transistors. Applied Physics Letters, 2015, 107, .	3.3	32
25	Flexible Poly(Vinyl Alcohol)–Graphene Oxide Hybrid Nanocomposite Based Cognitive Memristor with Pavlovian onditioned Reflex Activities. Advanced Electronic Materials, 2020, 6, 1901402.	5.1	31
26	Bio-polysaccharide electrolyte gated photoelectric synergic coupled oxide neuromorphic transistor with Pavlovian activities. Journal of Materials Chemistry C, 2020, 8, 2780-2789.	5.5	30
27	Biodegradable oxide synaptic transistors gated by a biopolymer electrolyte. Journal of Materials Chemistry C, 2016, 4, 7744-7750.	5.5	27
28	Mixed protonic and electronic conductors hybrid oxide synaptic transistors. Journal of Applied Physics, 2017, 121, .	2.5	26
29	Starch-based biopolymer electrolyte gated oxide synaptic transistors. Organic Electronics, 2018, 61, 312-317.	2.6	24
30	Transient Characteristics for Proton Gating in Laterally Coupled Indium–Zinc-Oxide Transistors. ACS Applied Materials & Interfaces, 2015, 7, 6205-6210.	8.0	23
31	Humidity-Dependent Synaptic Plasticity for Proton Gated Oxide Synaptic Transistor. IEEE Electron Device Letters, 2017, 38, 1248-1251.	3.9	23
32	Low-voltage protonic/photonic synergic coupled oxide phototransistor. Organic Electronics, 2019, 71, 31-35.	2.6	21
33	Synaptic metaplasticity of protonic/electronic coupled oxide neuromorphic transistor. Organic Electronics, 2019, 74, 304-308.	2.6	19
34	Ionotronic Neuromorphic Devices for Bionic Neural Network Applications. Physica Status Solidi - Rapid Research Letters, 2019, 13, .	2.4	16
35	Electrolyte Gated Oxide Pseudodiode for Inhibitory Synapse Applications. Advanced Electronic Materials, 2018, 4, 1800371.	5.1	14
36	Dual Function of Antireflectance and Surface Passivation of Atomic-Layer-Deposited \$hbox{Al}_{2}hbox{O}_{3}\$ Films. IEEE Electron Device Letters, 2012, 33, 1753-1755.	3.9	13

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37	Global modulatory heterosynaptic mechanisms in bio-polymer electrolyte gated oxide neuron transistors. Journal Physics D: Applied Physics, 2020, 53, 435105.	2.8	12
38	Mimicking Neurotransmitter Activity and Realizing Algebraic Arithmetic on Flexible Protein-Gated Oxide Neuromorphic Transistors. ACS Applied Materials & Interfaces, 2021, 13, 7784-7791.	8.0	12
39	Paired-pulse facilitation achieved in protonic/electronic hybrid indium gallium zinc oxide synaptic transistors. AIP Advances, 2015, 5, .	1.3	11
40	Brain-inspired biodegradable pectin based proton conductor gated electronic synapse. Organic Electronics, 2020, 82, 105782.	2.6	11
41	Proton gated oxide neuromorphic transistors with bionic vision enhancement and information decoding. Journal of Materials Chemistry C, 2022, 10, 7241-7250.	5.5	11
42	Laser directly written junctionless in-plane-gate neuron thin film transistors with AND logic function. Applied Physics Letters, 2013, 102, .	3.3	10
43	Albumen based protein gated bioinspired neuromorphic transistors with learning abilities. Organic Electronics, 2020, 87, 105961.	2.6	10
44	Proton induced multilevel storage capability in self-assembled indium-zinc-oxide thin-film transistors. Applied Physics Letters, 2013, 103, 113503.	3.3	9
45	Organic/inorganic hybrid low-voltage flexible oxide transistor gated with biodegradable electrolyte. Organic Electronics, 2018, 56, 82-88.	2.6	9
46	Aqueous solution processed mesoporous silica-gated photo-perception neuromorphic transistor. Journal of Materials Science, 2021, 56, 4316-4327.	3.7	8
47	Chitosan-Based Electrolyte Gated Low Voltage Oxide Transistor With a Coplanar Modulatory Terminal. IEEE Electron Device Letters, 2017, 38, 322-325.	3.9	8
48	Activity dependent post-tetanic potentiation of starch-based biopolymer electrolyte gated oxide synaptic transistors. Journal Physics D: Applied Physics, 2018, 51, 495401.	2.8	7
49	Flexible oxide neuromorphic transistors with synaptic learning functions. Journal Physics D: Applied Physics, 2019, 52, 405101.	2.8	7
50	Poly (vinyl alcohol)/graphene oxide hybrid electrolyte gated oxide neuron transistors for multifunctional logic applications. Journal Physics D: Applied Physics, 2020, 53, 115106.	2.8	7
51	Flexible Nanocellulose Gated Pseudo-Diode for Neuromorphic Electronic Applications. IEEE Electron Device Letters, 2022, 43, 737-740.	3.9	5
52	Highly sensitive flexible tactile perceptual interactive platform with functions of Braille code recognition. Journal Physics D: Applied Physics, 2021, 54, 375102.	2.8	4
53	2022 roadmap on neuromorphic devices and applications research in China. Neuromorphic Computing and Engineering, 2022, 2, 042501.	5.9	4
54	Proton gated oxide electric-double-layer transistors for full-swing low voltage inverter applications. RSC Advances, 2016, 6, 1053-1057.	3.6	3

#	Article	IF	CITATIONS
55	Indium-zinc-oxide electric-double-layer thin-film transistors for artificial synapse applications. , 2014, ,		1
56	Pseudo-diode based on protonic/electronic hybrid oxide transistor. Journal of Applied Physics, 2018, 123, 025304.	2.5	1
57	Ionic synergetically coupled electrolyte-gated transistors for neuromorphic engineering applications. , 2020, , 145-177.		1
58	Laser patterned junctionless neuron thin-films transistor arrays. , 2013, , .		0