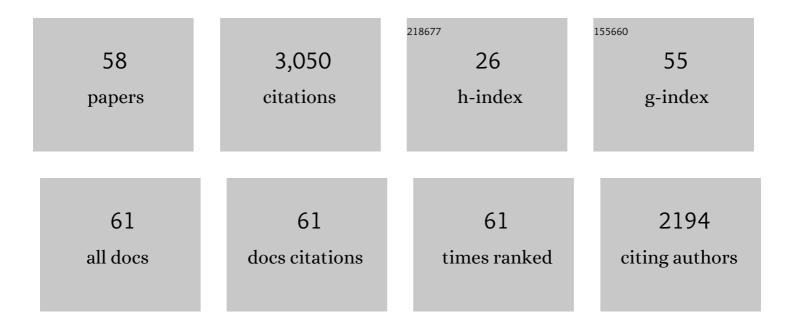
Li Qiang Zhu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Proton gated oxide neuromorphic transistors with bionic vision enhancement and information decoding. Journal of Materials Chemistry C, 2022, 10, 7241-7250. | 5.5 | 11 |
| 2 | Flexible Nanocellulose Gated Pseudo-Diode for Neuromorphic Electronic Applications. IEEE Electron Device Letters, 2022, 43, 737-740. | 3.9 | 5 |
| 3 | 2022 roadmap on neuromorphic devices and applications research in China. Neuromorphic Computing and Engineering, 2022, 2, 042501. | 5.9 | 4 |
| 4 | Aqueous solution processed mesoporous silica-gated photo-perception neuromorphic transistor. Journal of Materials Science, 2021, 56, 4316-4327. | 3.7 | 8 |
| 5 | 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 |
| 6 | Highly sensitive flexible tactile perceptual interactive platform with functions of Braille code recognition. Journal Physics D: Applied Physics, 2021, 54, 375102. | 2.8 | 4 |
| 7 | 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 |
| 8 | Albumen based protein gated bioinspired neuromorphic transistors with learning abilities. Organic Electronics, 2020, 87, 105961. | 2.6 | 10 |
| 9 | Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. ACS Applied Materials & Interfaces, 2020, 12, 26258-26266. | 8.0 | 55 |
| 10 | Global modulatory heterosynaptic mechanisms in bio-polymer electrolyte gated oxide neuron transistors. Journal Physics D: Applied Physics, 2020, 53, 435105. | 2.8 | 12 |
| 11 | 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 |
| 12 | lonic synergetically coupled electrolyte-gated transistors for neuromorphic engineering applications. , 2020, , 145-177. | | 1 |
| 13 | Brain-inspired biodegradable pectin based proton conductor gated electronic synapse. Organic Electronics, 2020, 82, 105782. | 2.6 | 11 |
| 14 | 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 |
| 15 | 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 |
| 16 | Synaptic metaplasticity of protonic/electronic coupled oxide neuromorphic transistor. Organic Electronics, 2019, 74, 304-308. | 2.6 | 19 |
| 17 | Oxide Neuromorphic Transistors Gated by Polyvinyl Alcohol Solid Electrolytes with Ultralow Power Consumption. ACS Applied Materials & Interfaces, 2019, 11, 28352-28358. | 8.0 | 46 |
| 18 | Flexible oxide neuromorphic transistors with synaptic learning functions. Journal Physics D: Applied Physics, 2019, 52, 405101. | 2.8 | 7 |

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|----|---|------|-----------|
| 19 | Bilayered Oxideâ€Based Cognitive Memristor with Brainâ€Inspired Learning Activities. Advanced Electronic Materials, 2019, 5, 1900439. | 5.1 | 43 |
| 20 | Low-voltage protonic/photonic synergic coupled oxide phototransistor. Organic Electronics, 2019, 71, 31-35. | 2.6 | 21 |
| 21 | 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 |
| 22 | lonotronic Neuromorphic Devices for Bionic Neural Network Applications. Physica Status Solidi - Rapid Research Letters, 2019, 13, . | 2.4 | 16 |
| 23 | Chitosan-Based Polysaccharide-Gated Flexible Indium Tin Oxide Synaptic Transistor with Learning Abilities. ACS Applied Materials & Interfaces, 2018, 10, 16881-16886. | 8.0 | 120 |
| 24 | Organic/inorganic hybrid low-voltage flexible oxide transistor gated with biodegradable electrolyte. Organic Electronics, 2018, 56, 82-88. | 2.6 | 9 |
| 25 | Hodgkin–Huxley Artificial Synaptic Membrane Based on Protonic/Electronic Hybrid Neuromorphic Transistors. Advanced Biology, 2018, 2, 1700198. | 3.0 | 41 |
| 26 | 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 |
| 27 | Restickable Oxide Neuromorphic Transistors with Spikeâ€Timingâ€Dependent Plasticity and Pavlovian Associative Learning Activities. Advanced Functional Materials, 2018, 28, 1804025. | 14.9 | 139 |
| 28 | Dendrite Integration Mimicked on Starch-Based Electrolyte-Gated Oxide Dendrite Transistors. ACS Applied Materials & Interfaces, 2018, 10, 40008-40013. | 8.0 | 49 |
| 29 | Pseudo-diode based on protonic/electronic hybrid oxide transistor. Journal of Applied Physics, 2018, 123, 025304. | 2.5 | 1 |
| 30 | Electrolyte Gated Oxide Pseudodiode for Inhibitory Synapse Applications. Advanced Electronic Materials, 2018, 4, 1800371. | 5.1 | 14 |
| 31 | Starch-based biopolymer electrolyte gated oxide synaptic transistors. Organic Electronics, 2018, 61, 312-317. | 2.6 | 24 |
| 32 | Activity Dependent Synaptic Plasticity Mimicked on Indium–Tin–Oxide Electric-Double-Layer Transistor. ACS Applied Materials & Interfaces, 2017, 9, 37064-37069. | 8.0 | 46 |
| 33 | Mixed protonic and electronic conductors hybrid oxide synaptic transistors. Journal of Applied Physics, 2017, 121, . | 2.5 | 26 |
| 34 | Humidity-Dependent Synaptic Plasticity for Proton Gated Oxide Synaptic Transistor. IEEE Electron Device Letters, 2017, 38, 1248-1251. | 3.9 | 23 |
| 35 | Chitosan-Based Electrolyte Gated Low Voltage Oxide Transistor With a Coplanar Modulatory Terminal. IEEE Electron Device Letters, 2017, 38, 322-325. | 3.9 | 8 |
| 36 | Protonâ€Conducting Graphene Oxideâ€Coupled Neuron Transistors for Brainâ€Inspired Cognitive Systems. Advanced Materials, 2016, 28, 3557-3563. | 21.0 | 226 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Flexible Metal Oxide/Graphene Oxide Hybrid Neuromorphic Transistors on Flexible Conducting Graphene Substrates. Advanced Materials, 2016, 28, 5878-5885. | 21.0 | 144 |
| 38 | Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. ACS Applied Materials & Interfaces, 2016, 8, 21770-21775. | 8.0 | 55 |
| 39 | Biodegradable oxide synaptic transistors gated by a biopolymer electrolyte. Journal of Materials Chemistry C, 2016, 4, 7744-7750. | 5.5 | 27 |
| 40 | Proton gated oxide electric-double-layer transistors for full-swing low voltage inverter applications. RSC Advances, 2016, 6, 1053-1057. | 3.6 | 3 |
| 41 | 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 |
| 42 | Oxide-based Synaptic Transistors Gated by Sol–Gel Silica Electrolytes. ACS Applied Materials & Interfaces, 2016, 8, 3050-3055. | 8.0 | 52 |
| 43 | Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. Scientific Reports, 2015, 5, 18082. | 3.3 | 70 |
| 44 | Multi-gate synergic modulation in laterally coupled synaptic transistors. Applied Physics Letters, 2015, 107, . | 3.3 | 32 |
| 45 | Freestanding Artificial Synapses Based on Laterally Proton oupled Transistors on Chitosan Membranes. Advanced Materials, 2015, 27, 5599-5604. | 21.0 | 352 |
| 46 | Transient Characteristics for Proton Gating in Laterally Coupled Indium–Zinc-Oxide Transistors. ACS Applied Materials & Interfaces, 2015, 7, 6205-6210. | 8.0 | 23 |
| 47 | Paired-pulse facilitation achieved in protonic/electronic hybrid indium gallium zinc oxide synaptic transistors. AIP Advances, 2015, 5, . | 1.3 | 11 |
| 48 | Indium-zinc-oxide electric-double-layer thin-film transistors for artificial synapse applications. , 2014, , | | 1 |
| 49 | Laterally Coupled Dual-Gate Oxide-Based Transistors on Sodium Alginate Electrolytes. IEEE Electron Device Letters, 2014, 35, 1257-1259. | 3.9 | 42 |
| 50 | Artificial synapse network on inorganic proton conductor for neuromorphic systems. Nature Communications, 2014, 5, 3158. | 12.8 | 655 |
| 51 | Proton conducting sodium alginate electrolyte laterally coupled low-voltage oxide-based transistors. Applied Physics Letters, 2014, 104, 133504. | 3.3 | 46 |
| 52 | Atomic layer deposited Al2O3 films for anti-reflectance and surface passivation applications. Applied Surface Science, 2014, 288, 430-434. | 6.1 | 34 |
| 53 | Memory and learning behaviors mimicked in nanogranular SiO2-based proton conductor gated oxide-based synaptic transistors. Nanoscale, 2013, 5, 10194. | 5.6 | 72 |
| 54 | Proton induced multilevel storage capability in self-assembled indium-zinc-oxide thin-film transistors. Applied Physics Letters, 2013, 103, 113503. | 3.3 | 9 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | 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 |
| 56 | Laser directly written junctionless in-plane-gate neuron thin film transistors with AND logic function. Applied Physics Letters, 2013, 102, . | 3.3 | 10 |
| 57 | Laser patterned junctionless neuron thin-films transistor arrays. , 2013, , . | | 0 |
| 58 | 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 |