

Chaoxing Wu

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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.

107 papers	2,429 citations	27 h-index	46 g-index
110 ext. papers	2,928 ext. citations	6.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
107	Flexible three-dimensional artificial synapse networks with correlated learning and trainable memory capability. <i>Nature Communications</i> , 2017 , 8, 752	17.4	176
106	Wearable Electricity Generators Fabricated Utilizing Transparent Electronic Textiles Based on Polyester/Ag Nanowires/Graphene Core-Shell Nanocomposites. <i>ACS Nano</i> , 2016 , 10, 6449-57	16.7	159
105	Enhanced Triboelectric Nanogenerators Based on MoS Monolayer Nanocomposites Acting as Electron-Acceptor Layers. <i>ACS Nano</i> , 2017 , 11, 8356-8363	16.7	126
104	Reduced graphene-oxide acting as electron-trapping sites in the friction layer for giant triboelectric enhancement. <i>Nano Energy</i> , 2017 , 32, 542-550	17.1	99
103	Mimicking Classical Conditioning Based on a Single Flexible Memristor. <i>Advanced Materials</i> , 2017 , 29, 1602890	24	93
102	Fluorescent Microarrays of in Situ Crystallized Perovskite Nanocomposites Fabricated for Patterned Applications by Using Inkjet Printing. <i>ACS Nano</i> , 2019 , 13, 2042-2049	16.7	88
101	Highly reproducible memory effect of organic multilevel resistive-switch device utilizing graphene oxide sheets/polyimide hybrid nanocomposite. <i>Applied Physics Letters</i> , 2011 , 99, 042108	3.4	78
100	Optoelectronic Perovskite Synapses for Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2020 , 30, 1908901	15.6	72
99	Self-Powered Tactile Sensor with Learning and Memory. <i>ACS Nano</i> , 2020 , 14, 1390-1398	16.7	64
98	Enhancing the short-circuit current and power conversion efficiency of polymer solar cells with graphene quantum dots derived from double-walled carbon nanotubes. <i>NPG Asia Materials</i> , 2013 , 5, e60-e60	10.3	60
97	Resistive switching memory based on organic/inorganic hybrid perovskite materials. <i>Vacuum</i> , 2016 , 130, 109-112	3.7	57
96	Ultrasoft and cuttable paper-based triboelectric nanogenerators for mechanical energy harvesting. <i>Nano Energy</i> , 2018 , 44, 279-287	17.1	56
95	Inkjet-Printed Photodetector Arrays Based on Hybrid Perovskite CHNHPbI Microwires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11662-11668	9.5	53
94	Wearable ultra-lightweight solar textiles based on transparent electronic fabrics. <i>Nano Energy</i> , 2017 , 32, 367-373	17.1	52
93	Improving the field emission of graphene by depositing zinc oxide nanorods on its surface. <i>Carbon</i> , 2012 , 50, 3622-3626	10.4	50
92	Controlling memory effects of three-layer structured hybrid bistable devices based on graphene sheets sandwiched between two laminated polymer layers. <i>Organic Electronics</i> , 2012 , 13, 178-183	3.5	47
91	Efficient tristable resistive memory based on single layer graphene/insulating polymer multi-stacking layer. <i>Applied Physics Letters</i> , 2014 , 104, 183105	3.4	47

90	Carrier transport and memory mechanisms of multilevel resistive memory devices with an intermediate state based on double-stacked organic/inorganic nanocomposites. <i>Organic Electronics</i> , 2016 , 28, 20-24	3.5	43
89	Structural, optical, and improved field-emission properties of tetrapod-shaped Sn-doped ZnO nanostructures synthesized via thermal evaporation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10067-73	9.5	41
88	Field emission from vertical graphene sheets formed by screen-printing technique. <i>Vacuum</i> , 2013 , 94, 48-52	3.7	38
87	Improving efficiency of organic light-emitting diodes fabricated utilizing AZO/Ag/AZO multilayer electrode. <i>Vacuum</i> , 2012 , 86, 1895-1897	3.7	38
86	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. <i>Nano Energy</i> , 2018 , 48, 292-300	17.1	37
85	Triboelectric electronic-skin based on graphene quantum dots for application in self-powered, smart, artificial fingers. <i>Nano Energy</i> , 2018 , 49, 274-282	17.1	35
84	Electron field emission characteristics of graphene/carbon nanotubes hybrid field emitter. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 659-664	5.7	35
83	Highly-stable memristive devices based on poly(methylmethacrylate): CsPbCl ₃ perovskite quantum dot hybrid nanocomposites. <i>Organic Electronics</i> , 2018 , 56, 41-45	3.5	34
82	Operating mechanisms of highly-reproducible write-once-read-many-times memory devices based on graphene quantum dot:poly(methyl silsesquioxane) nanocomposites. <i>Applied Physics Letters</i> , 2017 , 110, 013301	3.4	31
81	Electroplex emission at PVK/Bphen interface for application in white organic light-emitting diodes. <i>Journal of Luminescence</i> , 2011 , 131, 2252-2254	3.8	29
80	Organic electronic synapses with pinched hystereses based on graphene quantum-dot nanocomposites. <i>NPG Asia Materials</i> , 2017 , 9, e413-e413	10.3	26
79	Ultrathin electronic synapse having high temporal/spatial uniformity and an Al ₂ O ₃ /graphene quantum dots/Al ₂ O ₃ sandwich structure for neuromorphic computing. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	25
78	Flexible Memristive Devices Based on InP/ZnSe/ZnS Core-Multishell Quantum Dot Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14843-14849	9.5	25
77	The in situ preparation of novel EFe ₂ O ₃ nanorods/CNTs composites and their greatly enhanced field emission properties. <i>Applied Surface Science</i> , 2013 , 270, 621-626	6.7	24
76	Optical properties of fluorescent zigzag graphene quantum dots derived from multi-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2014 , 104, 063109	3.4	23
75	Synthesis and efficient field emission characteristics of patterned ZnO nanowires. <i>Journal of Semiconductors</i> , 2012 , 33, 023001	2.3	22
74	Electron-transfer mechanisms for confirmation of contact-electrification in ZnO/polyimide-based triboelectric nanogenerators. <i>Nano Energy</i> , 2020 , 75, 104818	17.1	21
73	Flexible bio-memristive devices based on chicken egg albumen: Au@SiO ₂ core-shell nanoparticle nanocomposites. <i>Scientific Reports</i> , 2017 , 7, 12033	4.9	21

72	Unique visible-light-assisted field emission of tetrapod-shaped ZnO/reduced graphene-oxide core/coating nanocomposites. <i>Scientific Reports</i> , 2016 , 6, 38613	4.9	21
71	Low-temperature atomic layer deposition of AlO/alucone nanolaminates for OLED encapsulation.. <i>RSC Advances</i> , 2019 , 9, 20884-20891	3.7	19
70	Recoverable electrical transition in a single graphene sheet for application in nonvolatile memories. <i>Applied Physics Letters</i> , 2012 , 100, 042105	3.4	19
69	Fabrication of flexible conductive graphene/Ag/Al-doped zinc oxide multilayer films for application in flexible organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 2139-2143	3.5	18
68	Ingenious use of natural triboelectrification on the human body for versatile applications in walking energy harvesting and body action monitoring. <i>Nano Energy</i> , 2019 , 57, 872-878	17.1	18
67	Highly-reproducible nonvolatile memristive devices based on polyvinylpyrrolidone: Graphene quantum-dot nanocomposites. <i>Organic Electronics</i> , 2017 , 51, 156-161	3.5	16
66	Capsule Triboelectric Nanogenerators: Toward Optional 3D Integration for High Output and Efficient Energy Harvesting from Broadband-Amplitude Vibrations. <i>ACS Nano</i> , 2018 , 12, 9947-9957	16.7	16
65	Flexible organic synaptic device based on poly (methyl methacrylate):CdSe/CdZnS quantum-dot nanocomposites. <i>Scientific Reports</i> , 2019 , 9, 9755	4.9	15
64	Formation and field emission of patterned zinc oxide-adhering graphene cathodes. <i>Vacuum</i> , 2013 , 89, 57-61	3.7	15
63	Electromagnetic induction heating for single crystal graphene growth: morphology control by rapid heating and quenching. <i>Scientific Reports</i> , 2015 , 5, 9034	4.9	14
62	Memristive devices with a large memory margin based on nanocrystalline organic-inorganic hybrid CH ₃ NH ₃ PbBr ₃ perovskite active layer. <i>Organic Electronics</i> , 2018 , 62, 412-418	3.5	13
61	Light-Emitting Memristors for Optoelectronic Artificial Efferent Nerve. <i>Nano Letters</i> , 2021 , 21, 6087-6094	4.5	13
60	Field emission arrays fabricated utilizing conjugated ZnO quantum dot/carbon nanotube hybrid nanocomposite. <i>Applied Surface Science</i> , 2011 , 257, 4539-4542	6.7	12
59	Large-scale microlens arrays on flexible substrate with improved numerical aperture for curved integral imaging 3D display. <i>Scientific Reports</i> , 2020 , 10, 11741	4.9	12
58	Highly flexible and stable resistive switching devices based on WS nanosheets:poly(methylmethacrylate) nanocomposites. <i>Scientific Reports</i> , 2019 , 9, 19316	4.9	12
57	Liquid-phase exfoliation of chemical vapor deposition-grown single layer graphene and its application in solution-processed transparent electrodes for flexible organic light-emitting devices. <i>Applied Physics Letters</i> , 2014 , 105, 243509	3.4	11
56	Triboelectric-nanogenerator-inspired light-emitting diode-in-capacitors for flexible operation in high-voltage and wireless drive modes. <i>Nano Energy</i> , 2020 , 78, 105281	17.1	11
55	Highly Stable and Flexible Memristive Devices Based on Polyvinylpyrrolidone: WS Quantum Dots. <i>Scientific Reports</i> , 2020 , 10, 5793	4.9	10

54	Effectively improved field emission for graphene film by mechanical surface modification. <i>Thin Solid Films</i> , 2013 , 544, 399-402	2.2	10
53	An improved planar-gate triode with CNTs field emitters by electrophoretic deposition. <i>Applied Surface Science</i> , 2011 , 257, 3259-3264	6.7	10
52	Integrable card-type triboelectric nanogenerators assembled by using less problematic, readily available materials. <i>Nano Energy</i> , 2018 , 51, 383-390	17.1	10
51	Effectively Improved Field Emission Properties of Multiwalled Carbon Nanotubes/Graphenes Composite Field Emitter by Covering on the Si Pyramidal Structure. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 4305-4312	2.9	9
50	A surface-conducted field emission device with suspended graphene cathodes. <i>Applied Surface Science</i> , 2013 , 273, 432-436	6.7	9
49	Improved performance of flexible white hybrid light emitting diodes by adjusting quantum dots distribution in polymer matrix. <i>Vacuum</i> , 2015 , 111, 1-4	3.7	8
48	Enhanced Field Emission Performance of Tetrapod-liked Zinc Oxide Nanoneedles by Coating with Graphene Oxide Sheets. <i>Current Nanoscience</i> , 2012 , 8, 23-25	1.4	8
47	Efficient Nonvolatile Rewritable Memories Based on Three-Dimensionally Confined Au Quantum Dots Embedded in Ultrathin Polyimide Layers. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 030204	1.4	8
46	Electroluminescence from LED without external charge injection. <i>Scientific Reports</i> , 2020 , 10, 8059	4.9	7
45	Electrically high-resistance liquid crystal micro-lens arrays with high performances for integral imaging 3D display. <i>Optics Communications</i> , 2020 , 462, 125299	2	7
44	Enhancements of the memory margin and the stability of an organic bistable device due to a graphene oxide:mica nanocomposite sandwiched between two polymer (9-vinylcarbazole) buffer layers. <i>Applied Surface Science</i> , 2018 , 429, 231-236	6.7	7
43	Highly-stable write-once-read-many-times switching behaviors of 1D-1R memristive devices based on graphene quantum dot nanocomposites. <i>Scientific Reports</i> , 2018 , 8, 12081	4.9	7
42	Stable field emission from planar-gate electron source with MWNTs by electrophoretic deposition. <i>Solid-State Electronics</i> , 2012 , 67, 6-10	1.7	7
41	Binary Electronic Synapses for Integrating Digital and Neuromorphic Computation in a Single Physical Platform. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17130-17138	9.5	6
40	Enhancement of the output voltage for triboelectric nanogenerators due to Al doping in the zinc oxide layer. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154913	5.7	6
39	Formation and carrier transport properties of single-layer graphene/poly (methyl methacrylate) nanocomposite for resistive memory application. <i>Vacuum</i> , 2014 , 101, 246-249	3.7	6
38	Fabrication and field emission characteristics of SnO ₂ electron sources based on planar-gate-type cathode arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 43, 167-172	3	6
37	Structure and Electrical Bistability of a New Inorganic/Organic Hybrid Based on Copper Iodide Polymer and Ethyl Viologen: A Synergic Combination of Experimental and Theoretical Study. <i>Science of Advanced Materials</i> , 2015 , 7, 1793-1799	2.3	6

36	Improved depth of field of the composite micro-lens arrays by electrically tunable focal lengths in the light field imaging system. <i>Optics and Laser Technology</i> , 2022 , 148, 107748	4.2	6
35	Efficient Nonvolatile Rewritable Memories Based on Three-Dimensionally Confined Au Quantum Dots Embedded in Ultrathin Polyimide Layers. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 030204	1.4	6
34	Bio-inspired smart electronic-skin based on inorganic perovskite nanoplates for application in photomemories and mechanoreceptors. <i>Nanoscale</i> , 2021 , 13, 253-260	7.7	6
33	Alternating current electroluminescence from GaN-based nanorod light-emitting diodes. <i>Optics and Laser Technology</i> , 2021 , 140, 107044	4.2	6
32	Highly Reliable Electronic Synapse Based on Au@Al ₂ O ₃ Core-Shell Nanoparticles for Neuromorphic Applications. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1610-1613	4.4	5
31	Electrical and optical properties of flexible conductive carbon nanotube/Ag/Al-doped zinc oxide multilayer coatings. <i>Thin Solid Films</i> , 2012 , 525, 93-96	2.2	5
30	Emerging Nanopixel Light-Emitting Displays: Significance, Challenges, and Prospects. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3522-3527	6.4	5
29	Flexible memristive devices based on polyimide:mica nanosheet nanocomposites with an embedded PEDOT:PSS layer. <i>Scientific Reports</i> , 2018 , 8, 12275	4.9	5
28	Biosynaptic devices based on chicken egg albumen:graphene quantum dot nanocomposites. <i>Scientific Reports</i> , 2020 , 10, 1255	4.9	4
27	Effect of a PEDOT:PSS modified layer on the electrical characteristics of flexible memristive devices based on graphene oxide:polyvinylpyrrolidone nanocomposites. <i>Applied Surface Science</i> , 2018 , 444, 65-70	6.7	4
26	Facile synthesis and color conversion of Cu-doped ZnSe quantum dots in an aqueous solution. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 21406-21415	2.1	4
25	Facile growth of aluminum oxide thin film by chemical liquid deposition and its application in devices. <i>Nanotechnology Reviews</i> , 2020 , 9, 876-885	6.3	4
24	Effect of relative humidity on the enhancement of the triboelectrification efficiency utilizing water bridges between triboelectric materials. <i>Nano Energy</i> , 2022 , 93, 106880	17.1	4
23	Spontaneous Formation of Random Wrinkles by Atomic Layer Infiltration for Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27548-27556	9.5	4
22	Fabrication and color conversion of patterned InP/ZnS quantum dots photoresist film via a laser-assisted route. <i>Optics and Laser Technology</i> , 2021 , 140, 107026	4.2	4
21	The Field Emission Properties of Backlight Unit Based on Two Kinds of SnO ₂ Nanostructures. <i>Current Nanoscience</i> , 2012 , 8, 29-32	1.4	3
20	Light-Pulse Splitting From Nano-Light-Emitting Diodes Operating in Noncarrier Injection Mode. <i>IEEE Electron Device Letters</i> , 2021 , 1-1	4.4	3
19	Coupling electrostatic induction and global electron circulation for constant-current triboelectric nanogenerators. <i>Nano Energy</i> , 2021 , 85, 105929	17.1	3

18	Atomic-Scale Mechanism of Spontaneous Polarity Inversion in AlN on Nonpolar Sapphire Substrate Grown by MOCVD.. <i>Small</i> , 2022 , e2200057	11	2
17	Wafer-Scale Semipolar Micro-Pyramid Lighting-Emitting Diode Array. <i>Crystals</i> , 2021 , 11, 686	2.3	2
16	Effects of embedded SiO ₂ nanoparticles on the moisture barrier performance of inorganic/organic laminates. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 21089-21095	2.1	2
15	Carrier Transport in Volatile Memory Device with SnO ₂ Quantum Dots Embedded in a Polyimide Layer. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 095003	1.4	1
14	Field-Emission Triode of Tetrapod-Like ZnO Film Using Metal Mesh. <i>Advanced Materials Research</i> , 2011 , 233-235, 2600-2603	0.5	1
13	Hybrid Device of Blue GaN Light-Emitting Diodes and Organic Light-Emitting Diodes with Color Tunability for Smart Lighting Sources.. <i>ACS Omega</i> , 2022 , 7, 5502-5509	3.9	1
12	Achieving Wide Operating Voltage Windows in Non-Carrier Injection Micro-LEDs for Enhancing Luminance Robustness. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 212-215	2.9	1
11	Carrier Transport in Volatile Memory Device with SnO ₂ Quantum Dots Embedded in a Polyimide Layer. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 095003	1.4	1
10	One-Step Synthesis of Hierarchical Structure Polydimethylsiloxane Films with Micro-/Nanosurfaces for Application in Triboelectric Nanogenerators. <i>Energy Technology</i> , 2021 , 9, 2100571	3.5	1
9	Morphology regulation of TiO ₂ thin film by ALD growth temperature and its applications to encapsulation and light extraction. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 21316-21324 ¹	2.1	1
8	Aspiration-assisted fabrication of patterned quantum dot films for photo-emissive color conversion. <i>Journal of Materials Science</i> , 2021 , 56, 1504-1514	4.3	1
7	P-13.8: Fabrication of Al ₂ O ₃ /alucone Nanolaminates Using ALD/MLD and its Application to OLED Encapsulation. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 649-651	0.5	1
6	Improved barrier and mechanical properties of Al ₂ O ₃ /acrylic laminates using rugged fluorocarbon layers for flexible encapsulation. <i>Organic Electronics</i> , 2021 , 97, 106263	3.5	1
5	Stomatopod-inspired integrate-and-fire triboelectric nanogenerator for harvesting mechanical energy with ultralow vibration speed. <i>Applied Energy</i> , 2022 , 312, 118739	10.7	1
4	Effect of nanostructured morphologies of SnO ₂ on field emission properties. <i>EPJ Applied Physics</i> , 2012 , 58, 10401	1.1	
3	Resistive switching memory based on three-dimensionally confined Ag quantum dots embedded in ultra thin polyimide layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 1173-6	1.3	
2	Low Temperature Growth of Patterned ZnO Nanowires and their Field Emission Characteristics. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 1918-1922	0.3	
1	One-Step Synthesis of Hierarchical Structure Polydimethylsiloxane Films with Micro-/Nanosurfaces for Application in Triboelectric Nanogenerators. <i>Energy Technology</i> , 2021 , 9, 2170123	3.5	

