Chaoxing Wu

List of Publications by Year in Descending Order

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	Hybrid Device of Blue GaN Light-Emitting Diodes and Organic Light-Emitting Diodes with Color Tunability for Smart Lighting Sources.. *ACS Omega*, **2022**, 7, 5502-5509	3.9	1
106	Atomic-Scale Mechanism of Spontaneous Polarity Inversion in AlN on Nonpolar Sapphire Substrate Grown by MOCVD.. *Small*, **2022**, e2200057	11	2
105	Improved depth of field of the composite micro-lens arrays by electrically tunable focal lengths in the light field imaging system. *Optics and Laser Technology*, **2022**, 148, 107748	4.2	6
104	Achieving Wide Operating Voltage Windows in Non-Carrier Injection Micro-LEDs for Enhancing Luminance Robustness. *IEEE Transactions on Electron Devices*, **2022**, 69, 212-215	2.9	1
103	Effect of relative humidity on the enhancement of the triboelectrification efficiency utilizing water bridges between triboelectric materials. *Nano Energy*, **2022**, 93, 106880	17.1	4
102	Stomatopod-inspired integrate-and-fire triboelectric nanogenerator for harvesting mechanical energy with ultralow vibration speed. *Applied Energy*, **2022**, 312, 118739	10.7	1
101	One-Step Synthesis of Hierarchical Structure Polydimethylsiloxane Films with Micro-/Nanosurfaces for Application in Triboelectric Nanogenerators. *Energy Technology*, **2021**, 9, 2170123	3.5	
100	One-Step Synthesis of Hierarchical Structure Polydimethylsiloxane Films with Micro-/Nanosurfaces for Application in Triboelectric Nanogenerators. *Energy Technology*, **2021**, 9, 2100571	3.5	1
99	Emerging Nanopixel Light-Emitting Displays: Significance, Challenges, and Prospects. *Journal of Physical Chemistry Letters*, **2021**, 12, 3522-3527	6.4	5
98	Wafer-Scale Semipolar Micro-Pyramid Lighting-Emitting Diode Array. *Crystals*, **2021**, 11, 686	2.3	2
97	Spontaneous Formation of Random Wrinkles by Atomic Layer Infiltration for Anticounterfeiting. *ACS Applied Materials & Interfaces*, **2021**, 13, 27548-27556	9.5	4
96	Aspiration-assisted fabrication of patterned quantum dot films for photo-emissive color conversion. *Journal of Materials Science*, **2021**, 56, 1504-1514	4.3	1
95	Bio-inspired smart electronic-skin based on inorganic perovskite nanoplates for application in photomemories and mechanoreceptors. *Nanoscale*, **2021**, 13, 253-260	7.7	6
94	Light-Pulse Splitting From Nano-Light-Emitting Diodes Operating in Noncarrier Injection Mode. *IEEE Electron Device Letters*, **2021**, 1-1	4.4	3
93	P-13.8: Fabrication of Al2O3/alucone Nanolaminates Using ALD/MLD and its Application to OLED Encapsulation. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 649-651	0.5	1
92	Coupling electrostatic induction and global electron circulation for constant-current triboelectric nanogenerators. *Nano Energy*, **2021**, 85, 105929	17.1	3
91	Light-Emitting Memristors for Optoelectronic Artificial Efferent Nerve. *Nano Letters*, **2021**, 21, 6087-6094	11.5	13

90	Fabrication and color conversion of patterned InP/ZnS quantum dots photoresist film via a laser-assisted route. *Optics and Laser Technology*, **2021**, 140, 107026	4.2	4
89	Alternating current electroluminescence from GaN-based nanorod light-emitting diodes. *Optics and Laser Technology*, **2021**, 140, 107044	4.2	6
88	Improved barrier and mechanical properties of Al2O3/acrylic laminates using rugged fluorocarbon layers for flexible encapsulation. *Organic Electronics*, **2021**, 97, 106263	3.5	1
87	Electroluminescence from ▯ED without external charge injection. *Scientific Reports*, **2020**, 10, 8059	4.9	7
86	Electron-transfer mechanisms for confirmation of contact-electrification in ZnO/polyimide-based triboelectric nanogenerators. *Nano Energy*, **2020**, 75, 104818	17.1	21
85	Binary Electronic Synapses for Integrating Digital and Neuromorphic Computation in a Single Physical Platform. *ACS Applied Materials & Interfaces*, **2020**, 12, 17130-17138	9.5	6
84	Enhancement of the output voltage for triboelectric nanogenerators due to Al doping in the zinc oxide layer. *Journal of Alloys and Compounds*, **2020**, 831, 154913	5.7	6
83	Biosynaptic devices based on chicken egg albumen:graphene quantum dot nanocomposites. *Scientific Reports*, **2020**, 10, 1255	4.9	4
82	Electrically high-resistance liquid crystal micro-lens arrays with high performances for integral imaging 3D display. *Optics Communications*, **2020**, 462, 125299	2	7
81	Optoelectronic Perovskite Synapses for Neuromorphic Computing. *Advanced Functional Materials*, **2020**, 30, 1908901	15.6	72
80	Highly Stable and Flexible Memristive Devices Based on Polyvinylpyrrolidone: WS Quantum Dots. *Scientific Reports*, **2020**, 10, 5793	4.9	10
79	Facile growth of aluminum oxide thin film by chemical liquid deposition and its application in devices. *Nanotechnology Reviews*, **2020**, 9, 876-885	6.3	4
78	Self-Powered Tactile Sensor with Learning and Memory. *ACS Nano*, **2020**, 14, 1390-1398	16.7	64
77	Morphology regulation of TiO2 thin film by ALD growth temperature and its applications to encapsulation and light extraction. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 21316-21324	2.1	1
76	Large-scale microlens arrays on flexible substrate with improved numerical aperture for curved integral imaging 3D display. *Scientific Reports*, **2020**, 10, 11741	4.9	12
75	Triboelectric-nanogenerator-inspired light-emitting diode-in-capacitors for flexible operation in high-voltage and wireless drive modes. *Nano Energy*, **2020**, 78, 105281	17.1	11
74	Ultrathin electronic synapse having high temporal/spatial uniformity and an Al2O3/graphene quantum dots/Al2O3 sandwich structure for neuromorphic computing. *NPG Asia Materials*, **2019**, 11,	10.3	25
73	Fluorescent Microarrays of in Situ Crystallized Perovskite Nanocomposites Fabricated for Patterned Applications by Using Inkjet Printing. *ACS Nano*, **2019**, 13, 2042-2049	16.7	88

72	Highly Reliable Electronic Synapse Based on Au@Al2O3 Core-Shell Nanoparticles for Neuromorphic Applications. *IEEE Electron Device Letters*, **2019**, 40, 1610-1613	4.4	5
71	Flexible organic synaptic device based on poly (methyl methacrylate):CdSe/CdZnS quantum-dot nanocomposites. *Scientific Reports*, **2019**, 9, 9755	4.9	15
70	Low-temperature atomic layer deposition of AlO/alucone nanolaminates for OLED encapsulation.. *RSC Advances*, **2019**, 9, 20884-20891	3.7	19
69	Facile synthesis and color conversion of Cu-doped ZnSe quantum dots in an aqueous solution. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 21406-21415	2.1	4
68	Highly flexible and stable resistive switching devices based on WS nanosheets:poly(methylmethacrylate) nanocomposites. *Scientific Reports*, **2019**, 9, 19316	4.9	12
67	Effects of embedded SiO2 nanoparticles on the moisture barrier performance of inorganic/organic laminates. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 21089-21095	2.1	2
66	Ingenious use of natural triboelectrification on the human body for versatile applications in walking energy harvesting and body action monitoring. *Nano Energy*, **2019**, 57, 872-878	17.1	18
65	Flexible Memristive Devices Based on InP/ZnSe/ZnS Core-Multishell Quantum Dot Nanocomposites. *ACS Applied Materials & Interfaces*, **2018**, 10, 14843-14849	9.5	25
64	Highly-stable memristive devices based on poly(methylmethacrylate): CsPbCl3 perovskite quantum dot hybrid nanocomposites. *Organic Electronics*, **2018**, 56, 41-45	3.5	34
63	Triboelectric electronic-skin based on graphene quantum dots for application in self-powered, smart, artificial fingers. *Nano Energy*, **2018**, 49, 274-282	17.1	35
62	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. *Nano Energy*, **2018**, 48, 292-300	17.1	37
61	Effect of a PEDOT:PSS modified layer on the electrical characteristics of flexible memristive devices based on graphene oxide:polyvinylpyrrolidone nanocomposites. *Applied Surface Science*, **2018**, 444, 65-70	6.7	4
60	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. *Applied Surface Science*, **2018**, 429, 231-236	6.7	7
59	Highly-stable write-once-read-many-times switching behaviors of 1D-1R memristive devices based on graphene quantum dot nanocomposites. *Scientific Reports*, **2018**, 8, 12081	4.9	7
58	Memristive devices with a large memory margin based on nanocrystalline organic-inorganic hybrid CH3NH3PbBr3 perovskite active layer. *Organic Electronics*, **2018**, 62, 412-418	3.5	13
57	Ultrasoft and cuttable paper-based triboelectric nanogenerators for mechanical energy harvesting. *Nano Energy*, **2018**, 44, 279-287	17.1	56
56	Capsule Triboelectric Nanogenerators: Toward Optional 3D Integration for High Output and Efficient Energy Harvesting from Broadband-Amplitude Vibrations. *ACS Nano*, **2018**, 12, 9947-9957	16.7	16
55	Flexible memristive devices based on polyimide:mica nanosheet nanocomposites with an embedded PEDOT:PSS layer. *Scientific Reports*, **2018**, 8, 12275	4.9	5

54	Integrable card-type triboelectric nanogenerators assembled by using less problematic, readily available materials. *Nano Energy*, **2018**, 51, 383-390	17.1	10
53	Reduced graphene-oxide acting as electron-trapping sites in the friction layer for giant triboelectric enhancement. *Nano Energy*, **2017**, 32, 542-550	17.1	99
52	Wearable ultra-lightweight solar textiles based on transparent electronic fabrics. *Nano Energy*, **2017**, 32, 367-373	17.1	52
51	Operating mechanisms of highly-reproducible write-once-read-many-times memory devices based on graphene quantum dot:poly(methyl silsesquioxane) nanocomposites. *Applied Physics Letters*, **2017**, 110, 013301	3.4	31
50	Inkjet-Printed Photodetector Arrays Based on Hybrid Perovskite CHNHPbI Microwires. *ACS Applied Materials & Interfaces*, **2017**, 9, 11662-11668	9.5	53
49	Mimicking Classical Conditioning Based on a Single Flexible Memristor. *Advanced Materials*, **2017**, 29, 1602890	24	93
48	Flexible three-dimensional artificial synapse networks with correlated learning and trainable memory capability. *Nature Communications*, **2017**, 8, 752	17.4	176
47	Highly-reproducible nonvolatile memristive devices based on polyvinylpyrrolidone: Graphene quantum-dot nanocomposites. *Organic Electronics*, **2017**, 51, 156-161	3.5	16
46	Flexible bio-memristive devices based on chicken egg albumen:Au@SiO core-shell nanoparticle nanocomposites. *Scientific Reports*, **2017**, 7, 12033	4.9	21
45	Enhanced Triboelectric Nanogenerators Based on MoS Monolayer Nanocomposites Acting as Electron-Acceptor Layers. *ACS Nano*, **2017**, 11, 8356-8363	16.7	126
44	Organic electronic synapses with pinched hystereses based on graphene quantum-dot nanocomposites. *NPG Asia Materials*, **2017**, 9, e413-e413	10.3	26
43	Wearable Electricity Generators Fabricated Utilizing Transparent Electronic Textiles Based on Polyester/Ag Nanowires/Graphene Core-Shell Nanocomposites. *ACS Nano*, **2016**, 10, 6449-57	16.7	159
42	Carrier transport and memory mechanisms of multilevel resistive memory devices with an intermediate state based on double-stacked organic/inorganic nanocomposites. *Organic Electronics* , **2016**, 28, 20-24	3.5	43
41	Unique visible-light-assisted field emission of tetrapod-shaped ZnO/reduced graphene-oxide core/coating nanocomposites. *Scientific Reports*, **2016**, 6, 38613	4.9	21
40	Resistive switching memory based on organic/inorganic hybrid perovskite materials. *Vacuum*, **2016**, 130, 109-112	3.7	57
39	Effectively Improved Field Emission Properties of Multiwalled Carbon Nanotubes/Graphenes Composite Field Emitter by Covering on the Si Pyramidal Structure. *IEEE Transactions on Electron Devices*, **2015**, 62, 4305-4312	2.9	9
38	Improved performance of flexible white hybrid light emitting diodes by adjusting quantum dots distribution in polymer matrix. *Vacuum*, **2015**, 111, 1-4	3.7	8
37	Electromagnetic induction heating for single crystal graphene growth: morphology control by rapid heating and quenching. *Scientific Reports*, **2015**, 5, 9034	4.9	14

36	Structure and Electrical Bistability of a New Inorganic/Organic Hybird Based on Copper Iodide Polymer and Ethyl Viologen: A Synergic Combination of Experimental and Theoretical Study. *Science of Advanced Materials*, **2015**, 7, 1793-1799	2.3	6
35	Formation and carrier transport properties of single-layer graphene/poly (methyl methacrylate) nanocomposite for resistive memory application. *Vacuum*, **2014**, 101, 246-249	3.7	6
34	Optical properties of fluorescent zigzag graphene quantum dots derived from multi-walled carbon nanotubes. *Applied Physics Letters*, **2014**, 104, 063109	3.4	23
33	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. *Applied Physics Letters*, **2014**, 105, 243509	3.4	11
32	Efficient tristable resistive memory based on single layer graphene/insulating polymer multi-stacking layer. *Applied Physics Letters*, **2014**, 104, 183105	3.4	47
31	Electron field emission characteristics of graphene/carbon nanotubes hybrid field emitter. *Journal of Alloys and Compounds*, **2014**, 610, 659-664	5.7	35
30	Field emission from vertical graphene sheets formed by screen-printing technique. *Vacuum*, **2013**, 94, 48-52	3.7	38
29	Formation and field emission of patterned zinc oxide-adhering graphene cathodes. *Vacuum*, **2013**, 89, 57-61	3.7	15
28	Structural, optical, and improved field-emission properties of tetrapod-shaped Sn-doped ZnO nanostructures synthesized via thermal evaporation. *ACS Applied Materials & Interfaces*, **2013**, 5, 10067-73	9.5	41
27	The in situ preparation of novel □Fe2O3 nanorods/CNTs composites and their greatly enhanced field emission properties. *Applied Surface Science*, **2013**, 270, 621-626	6.7	24
26	A surface-conducted field emission device with suspended graphene cathodes. *Applied Surface Science*, **2013**, 273, 432-436	6.7	9
25	Effectively improved field emission for graphene film by mechanical surface modification. *Thin Solid Films*, **2013**, 544, 399-402	2.2	10
24	Fabrication of flexible conductive graphene/Ag/Al-doped zinc oxide multilayer films for application in flexible organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 2139-2143	3.5	18
23	Enhancing the short-circuit current and power conversion efficiency of polymer solar cells with graphene quantum dots derived from double-walled carbon nanotubes. *NPG Asia Materials*, **2013**, 5, e60-e60	10.3	60
22	Resistive switching memory based on three-dimensionally confined Ag quantum dots embedded in ultra thin polyimide layers. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 1173-6	1.3	
21	Stable field emission from planar-gate electron source with MWNTs by electrophoretic deposition. *Solid-State Electronics*, **2012**, 67, 6-10	1.7	7
20	Controlling memory effects of three-layer structured hybrid bistable devices based on graphene sheets sandwiched between two laminated polymer layers. *Organic Electronics*, **2012**, 13, 178-183	3.5	47
19	Electrical and optical properties of flexible conductive carbon nanotube/Ag/Al-doped zinc oxide multilayer coatings. *Thin Solid Films*, **2012**, 525, 93-96	2.2	5

18	Improving efficiency of organic light-emitting diodes fabricated utilizing AZO/Ag/AZO multilayer electrode. *Vacuum*, **2012**, 86, 1895-1897	3.7	38
17	Effect of nanostructured morphologies of SnO2on field emission properties. *EPJ Applied Physics*, **2012**, 58, 10401	1.1	
16	Enhanced Field Emission Performance of Tetrapod-liked Zinc Oxide Nanoneedles by Coating with Graphene Oxide Sheets. *Current Nanoscience*, **2012**, 8, 23-25	1.4	8
15	Improving the field emission of graphene by depositing zinc oxide nanorods on its surface. *Carbon*, **2012**, 50, 3622-3626	10.4	50
14	Synthesis and efficient field emission characteristics of patterned ZnO nanowires. *Journal of Semiconductors*, **2012**, 33, 023001	2.3	22
13	Recoverable electrical transition in a single graphene sheet for application in nonvolatile memories. *Applied Physics Letters*, **2012**, 100, 042105	3.4	19
12	The Field Emission Properties of Backlight Unit Based on Two Kinds of SnO2 Nanostructures. *Current Nanoscience*, **2012**, 8, 29-32	1.4	3
11	Highly reproducible memory effect of organic multilevel resistive-switch device utilizing graphene oxide sheets/polyimide hybrid nanocomposite. *Applied Physics Letters*, **2011**, 99, 042108	3.4	78
10	Efficient Nonvolatile Rewritable Memories Based on Three-Dimensionally Confined Au Quantum Dots Embedded in Ultrathin Polyimide Layers. *Japanese Journal of Applied Physics*, **2011**, 50, 030204	1.4	8
9	Field emission arrays fabricated utilizing conjugated ZnO quantum dot/carbon nanotube hybrid nanocomposite. *Applied Surface Science*, **2011**, 257, 4539-4542	6.7	12
8	An improved planar-gate triode with CNTs field emitters by electrophoretic deposition. *Applied Surface Science*, **2011**, 257, 3259-3264	6.7	10
7	Electroplex emission at PVK/Bphen interface for application in white organic light-emitting diodes. *Journal of Luminescence*, **2011**, 131, 2252-2254	3.8	29
6	Low Temperature Growth of Patterned ZnO Nanowires and their Field Emission Characteristics. *Applied Mechanics and Materials*, **2011**, 110-116, 1918-1922	0.3	
5	Carrier Transport in Volatile Memory Device with SnO$_{2}$ Quantum Dots Embedded in a Polyimide Layer. *Japanese Journal of Applied Physics*, **2011**, 50, 095003	1.4	1
4	Field-Emission Triode of Tetrapod-Like ZnO Film Using Metal Mesh. *Advanced Materials Research*, **2011**, 233-235, 2600-2603	0.5	1
3	Efficient Nonvolatile Rewritable Memories Based on Three-Dimensionally Confined Au Quantum Dots Embedded in Ultrathin Polyimide Layers. *Japanese Journal of Applied Physics*, **2011**, 50, 030204	1.4	6
2	Carrier Transport in Volatile Memory Device with SnO2Quantum Dots Embedded in a Polyimide Layer. *Japanese Journal of Applied Physics*, **2011**, 50, 095003	1.4	1
1	Fabrication and field emission characteristics of SnO2 electron sources based on planar-gate-type cathode arrays. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 43, 167-172	3	6