

Gang Liu

List of Publications by Year in Descending Order

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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.

113
papers

5,437
citations

41
h-index

72
g-index

120
ext. papers

6,551
ext. citations

8.3
avg, IF

5.86
L-index

#	Paper	IF	Citations
113	Retinomorphonic optoelectronic devices for intelligent machine vision.. <i>IScience</i> , 2022 , 25, 103729	6.1	4
112	Direct evidence of microbiological water quality changes on bacterial quantity and community caused by plumbing system.. <i>Journal of Environmental Sciences</i> , 2022 , 116, 175-183	6.4	0
111	Changes in biofilm composition and microbial water quality in drinking water distribution systems by temperature increase induced through thermal energy recovery. <i>Environmental Research</i> , 2021 , 194, 110648	7.9	7
110	90% yield production of polymer nano-memristor for in-memory computing. <i>Nature Communications</i> , 2021 , 12, 1984	17.4	22
109	Compositional and functional responses of bacterial community to titanium dioxide nanoparticles varied with soil heterogeneity and exposure duration. <i>Science of the Total Environment</i> , 2021 , 773, 144895	10.2	3
108	Improved Auto Disturbance Rejection Control Based on Moth Flame Optimization for Permanent Magnet Synchronous Motor. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2021 , 16, 1124-1135	1.35	1
107	Conjugated polymers for information storage and neuromorphic computing. <i>Polymer International</i> , 2021 , 70, 374-403	3.3	4
106	Mapping the EU tomato supply chain from farm to fork for greenhouse gas emission mitigation strategies. <i>Journal of Industrial Ecology</i> , 2021 , 25, 377-389	7.2	2
105	Layer-dependent ferroelectricity in 2H-stacked few-layer HnSe. <i>Materials Horizons</i> , 2021 , 8, 1472-1480	14.4	9
104	A Quantized Convolutional Neural Network Implemented With Memristor for Image Denoising and Recognition. <i>Frontiers in Neuroscience</i> , 2021 , 15, 717222	5.1	1
103	Anti-oxidative passivation and electrochemical activation of black phosphorus via covalent functionalization and its nonvolatile memory application. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 73097313	7.13	7
102	Effects of cold recovery technology on the microbial drinking water quality in unchlorinated distribution systems. <i>Environmental Research</i> , 2020 , 183, 109175	7.9	8
101	Improving the Recognition Accuracy of Memristive Neural Networks via Homogenized Analog Type Conductance Quantization. <i>Micromachines</i> , 2020 , 11,	3.3	3
100	Flavonoids and type 2 diabetes: Evidence of efficacy in clinical and animal studies and delivery strategies to enhance their therapeutic efficacy. <i>Pharmacological Research</i> , 2020 , 152, 104629	10.2	52
99	Sulfur-containing amino acid supplementation to gilts from late pregnancy to lactation altered offspring's intestinal microbiota and plasma metabolites. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 1227-1242	5.7	13
98	Controllable and Stable Quantized Conductance States in a Pt/HfOx/ITO Memristor. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901055	6.4	18
97	Switchable Perovskite Photovoltaic Sensors for Bioinspired Adaptive Machine Vision. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000122	6	21

96	Magnetism modulation and conductance quantization in a gadolinium oxide memristor. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26322-26329	3.6	2
95	Assessing the transition effects in a drinking water distribution system caused by changing supply water quality: an indirect approach by characterizing suspended solids. <i>Water Research</i> , 2020 , 168, 115159	12.5	20
94	Implementation of All 27 Possible Univariate Ternary Logics With a Single ZnO Memristor. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 4710-4715	2.9	9
93	Compositional alterations in soil bacterial communities exposed to TiO nanoparticles are not reflected in functional impacts. <i>Environmental Research</i> , 2019 , 178, 108713	7.9	12
92	Recent Advances of Quantum Conductance in Memristors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800854	4	27
91	Controlled Construction of Atomic Point Contact with 16 Quantized Conductance States in Oxide Resistive Switching Memory. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 789-798	4	17
90	Solid-State Electrochemical Process and Performance Optimization of Memristive Materials and Devices. <i>Chemistry</i> , 2019 , 1, 44-68	2.1	2
89	An Oxide Schottky Junction Artificial Optoelectronic Synapse. <i>ACS Nano</i> , 2019 , 13, 2634-2642	16.7	104
88	An electro-photo-sensitive synaptic transistor for edge neuromorphic visual systems. <i>Nanoscale</i> , 2019 , 11, 17590-17599	7.7	34
87	A univariate ternary logic and three-valued multiplier implemented in a nano-columnar crystalline zinc oxide memristor.. <i>RSC Advances</i> , 2019 , 9, 24595-24602	3.7	0
86	Exploring possible associations of the intestine bacterial microbiome with the pre-weaned weight gaining performance of piglets in intensive pig production. <i>Scientific Reports</i> , 2019 , 9, 15534	4.9	15
85	Impact of sulfur-containing amino acids on the plasma metabolomics and intestinal microflora of the sow in late pregnancy. <i>Food and Function</i> , 2019 , 10, 5910-5921	6.1	3
84	Redox gated polymer memristive processing memory unit. <i>Nature Communications</i> , 2019 , 10, 736	17.4	55
83	Enabling superior stretchable resistive switching memory via polymer-functionalized graphene oxide nanosheets. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14664-14671	7.1	11
82	Nanoscale magnetization reversal by electric field-induced ion migration. <i>MRS Communications</i> , 2019 , 9, 14-26	2.7	6
81	Printable Liquid-Metal@PDMS Stretchable Heater with High Stretchability and Dynamic Stability for Wearable Thermo-therapy. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800435	6.8	61
80	Intrinsically Stretchable Resistive Switching Memory Enabled by Combining a Liquid MetalBased Soft Electrode and a MetalOrganic Framework Insulator. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800655	6.4	35
79	Organic and hybrid resistive switching materials and devices. <i>Chemical Society Reviews</i> , 2019 , 48, 1531-1565	15.65	172

78	Improving Unipolar Resistive Switching Uniformity with Cone-Shaped Conducting Filaments and Its Logic-In-Memory Application. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6453-6462	9.5	52
77	Polyaniline-poly(vinylidene fluoride) blend microfiltration membrane and its spontaneous gold recovery application. <i>Science China Chemistry</i> , 2018 , 61, 118-126	7.9	2
76	Hyperhomocysteinemia and cardiovascular disease in animal model. <i>Amino Acids</i> , 2018 , 50, 3-9	3.5	24
75	Melatonin alleviates weanling stress in mice: Involvement of intestinal microbiota. <i>Journal of Pineal Research</i> , 2018 , 64, e12448	10.4	85
74	A Composite Elastic Conductor with High Dynamic Stability Based on 3D-Calabash Bunch Conductive Network Structure for Wearable Devices. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800137	6.4	42
73	Gut Microbiota and Type 1 Diabetes. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	79
72	Impact of the Gut Microbiota on Intestinal Immunity Mediated by Tryptophan Metabolism. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018 , 8, 13	5.9	458
71	Intestinal microbiota in growing pigs: effects of stocking density. <i>Food and Agricultural Immunology</i> , 2018 , 29, 524-535	2.9	1
70	Crosstalk Between Nuclear Glucose-Regulated Protein 78 and Tumor Protein 53 Contributes to the Lipopolysaccharide Aggravated Apoptosis of Endoplasmic Reticulum Stress-Responsive Porcine Intestinal Epithelial Cells. <i>Cellular Physiology and Biochemistry</i> , 2018 , 48, 2441-2455	3.9	5
69	A skin-inspired tactile sensor for smart prosthetics. <i>Science Robotics</i> , 2018 , 3,	18.6	117
68	Pyrrolidine Dithiocarbamate (PDTTC) Inhibits DON-Induced Mitochondrial Dysfunction and Apoptosis via the NF- κ B/iNOS Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 1324173	6.7	15
67	The Tryptophan Pathway Targeting Antioxidant Capacity in the Placenta. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 1054797	6.7	21
66	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. <i>Nature Communications</i> , 2018 , 9, 3813	17.4	46
65	Effect of dietary β -ketoglutarate and allicin supplementation on the composition and diversity of the cecal microbial community in growing pigs. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 5816-5821	4.3	13
64	Highly flexible resistive switching memory based on amorphous-nanocrystalline hafnium oxide films. <i>Nanoscale</i> , 2017 , 9, 7037-7046	7.7	89
63	Study of synergistic effect of cellulose on the enhancement of photocatalytic activity of ZnO. <i>Journal of Materials Science</i> , 2017 , 52, 8472-8484	4.3	8
62	The weight of unfinished plate: A survey based characterization of restaurant food waste in Chinese cities. <i>Waste Management</i> , 2017 , 66, 3-12	8.6	117
61	Nanochannels: A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal/Insulator Transition (Adv. Mater. 39/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1

60	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition. <i>Advanced Materials</i> , 2017 , 29, 1702162	24	52
59	Escherichia coli aggravates endoplasmic reticulum stress and triggers CHOP-dependent apoptosis in weaned pigs. <i>Amino Acids</i> , 2017 , 49, 2073-2082	3.5	11
58	Melatonin alters amino acid metabolism and inflammatory responses in colitis mice. <i>Amino Acids</i> , 2017 , 49, 2065-2071	3.5	10
57	The effect of aspartate supplementation on the microbial composition and innate immunity on mice. <i>Amino Acids</i> , 2017 , 49, 2045-2051	3.5	21
56	A review of the immunomodulatory role of dietary tryptophan in livestock and poultry. <i>Amino Acids</i> , 2017 , 49, 67-74	3.5	24
55	l-Glutamine Attenuates Apoptosis Induced by Endoplasmic Reticulum Stress by Activating the IRE1/XBP1 Axis in IPEC-J2: A Novel Mechanism of l-Glutamine in Promoting Intestinal Health. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	19
54	DNA Methylation and the Potential Role of Methyl-Containing Nutrients in Cardiovascular Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 1670815	6.7	8
53	Short-term supplementation of isocaloric meals with L-tryptophan affects pig growth. <i>Amino Acids</i> , 2017 , 49, 2009-2014	3.5	6
52	In Situ Nanoscale Electric Field Control of Magnetism by Nanoionics. <i>Advanced Materials</i> , 2016 , 28, 7658-7665	11	44
51	Reversible Luminescence Modulation upon an Electric Field on a Full Solid-State Device Based on Lanthanide Dimers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15551-6	9.5	7
50	Developmental changes in intercellular junctions and Kv channels in the intestine of piglets during the suckling and post-weaning periods. <i>Journal of Animal Science and Biotechnology</i> , 2016 , 7, 4	6	34
49	Convertible resistive switching characteristics between memory switching and threshold switching in a single ferritin-based memristor. <i>Chemical Communications</i> , 2016 , 52, 4828-31	5.8	49
48	An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. <i>RSC Advances</i> , 2016 , 6, 25179-25184	3.7	37
47	Intestinal Microbiota-Derived GABA Mediates Interleukin-17 Expression during Enterotoxigenic Infection. <i>Frontiers in Immunology</i> , 2016 , 7, 685	8.4	45
46	Organic Biomimicking Memristor for Information Storage and Processing Applications. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500298	6.4	130
45	Proteome analysis for the global proteins in the jejunum tissues of enterotoxigenic Escherichia coli-infected piglets. <i>Scientific Reports</i> , 2016 , 6, 25640	4.9	22
44	Synaptic plasticity and learning behaviours in flexible artificial synapse based on polymer/viologen system. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3217-3223	7.1	47
43	Metal-Organic Framework Nanofilm for Mechanically Flexible Information Storage Applications. <i>Advanced Functional Materials</i> , 2015 , 25, 2677-2685	15.6	106

42	NIR-responsive polypeptide copolymer upconversion composite nanoparticles for triggered drug release and enhanced cytotoxicity. <i>Polymer Chemistry</i> , 2015 , 6, 4030-4039	4.9	32
41	Synthesis and nonvolatile memristive switching effect of a donor-acceptor structured oligomer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 664-673	7.1	26
40	Tribological Properties of WC-Reinforced Ni-Based Coatings Under Different Lubricating Conditions. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 1323-1332	2.5	9
39	Switching Memory: An Optoelectronic Resistive Switching Memory with Integrated Demodulating and Arithmetic Functions (Adv. Mater. 17/2015). <i>Advanced Materials</i> , 2015 , 27, 2812-2812	24	
38	A portable wireless power transmission system for video capsule endoscopes. <i>Bio-Medical Materials and Engineering</i> , 2015 , 26 Suppl 1, S1721-30	1	4
37	Architecture of modified silica resin coatings with various micro/nano patterns for fouling resistance: microstructure and antifouling performance. <i>RSC Advances</i> , 2015 , 5, 97862-97873	3.7	17
36	Positive temperature coefficient of magnetic anisotropy in polyvinylidene fluoride (PVDF)-based magnetic composites. <i>Scientific Reports</i> , 2014 , 4, 6615	4.9	28
35	Thermally Stable Transparent Resistive Random Access Memory based on All-Oxide Heterostructures. <i>Advanced Functional Materials</i> , 2014 , 24, 2171-2179	15.6	124
34	Thermally-stable resistive switching with a large ON/OFF ratio achieved in poly(triphenylamine). <i>Chemical Communications</i> , 2014 , 50, 11856-8	5.8	55
33	Structural effect on the resistive switching behavior of triphenylamine-based poly(azomethine)s. <i>Chemical Communications</i> , 2014 , 50, 11496-9	5.8	39
32	Multi-responsive polypeptidosome: characterization, morphology transformation, and triggered drug delivery. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1673-8	4.8	56
31	An NIR-responsive and sugar-targeted polypeptide composite nanomedicine for intracellular cancer therapy. <i>Chemical Communications</i> , 2014 , 50, 12538-41	5.8	38
30	Ion transport-related resistive switching in film sandwich structures. <i>Science Bulletin</i> , 2014 , 59, 2363-2382		9
29	Structural effect on controllable resistive memory switching in donor-acceptor polymer systems. <i>Organic Electronics</i> , 2014 , 15, 322-336	3.5	14
28	Polymer memristor for information storage and neuromorphic applications. <i>Materials Horizons</i> , 2014 , 1, 489	14.4	146
27	Thermally assisted electric field control of magnetism in flexible multiferroic heterostructures. <i>Scientific Reports</i> , 2014 , 4, 6925	4.9	11
26	Effects of chitosan on intestinal inflammation in weaned pigs challenged by enterotoxigenic <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014 , 9, e104192	3.7	50
25	Transparent Electronics: Thermally Stable Transparent Resistive Random Access Memory based on All-Oxide Heterostructures (Adv. Funct. Mater. 15/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2110-2110	15.6	2

24	A resistance-switchable and ferroelectric metal-organic framework. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17477-83	16.4	85
23	Resistance-Switchable Graphene Oxide/Polymer Nanocomposites for Molecular Electronics. <i>ChemElectroChem</i> , 2014 , 1, 514-519	4.3	19
22	Impact of biochar application on nitrogen nutrition of rice, greenhouse-gas emissions and soil organic carbon dynamics in two paddy soils of China. <i>Plant and Soil</i> , 2013 , 370, 527-540	4.2	147
21	Role of oxadiazole moiety in different D π A polyazothines and related resistive switching properties. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4556	7.1	39
20	Linear/dendritic biodegradable block copolymers: from synthesis to application in bionanotechnology. <i>Polymer Chemistry</i> , 2013 , 4, 46-52	4.9	45
19	In situ synthesis and nonvolatile rewritable-memory effect of polyaniline-functionalized graphene oxide. <i>Chemistry - A European Journal</i> , 2013 , 19, 6265-73	4.8	49
18	UV- and NIR-responsive polymeric nanomedicines for on-demand drug delivery. <i>Polymer Chemistry</i> , 2013 , 4, 3431	4.9	156
17	Synthesis and memory performance of a conjugated polymer with an integrated fluorene, carbazole and oxadiazole backbone. <i>Polymer Journal</i> , 2012 , 44, 257-263	2.7	9
16	A multilevel memory based on proton-doped polyazomethine with an excellent uniformity in resistive switching. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17408-11	16.4	118
15	Photoresponsive poly(S-(o-nitrobenzyl)-L-cysteine)-b-PEO from a L-cysteine N-carboxyanhydride monomer: synthesis, self-assembly, and phototriggered drug release. <i>Biomacromolecules</i> , 2012 , 13, 1573-83	6.9	186
14	Push/Pull archetype of reduced graphene oxide functionalized with polyfluorene for nonvolatile rewritable memory. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 378-387	2.5	67
13	Electrical Bistability and WORM Memory Effects in Donor/Acceptor Polymers Based on Poly(N-vinylcarbazole). <i>ChemPlusChem</i> , 2012 , 77, 74-81	2.8	35
12	Graphene and its derivatives: switching ON and OFF. <i>Chemical Society Reviews</i> , 2012 , 41, 4688-707	58.5	219
11	Infiltrating P3HT polymer into ordered TiO ₂ nanotube arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 658-663	1.6	7
10	Organo- and Water-Dispersible Graphene Oxide/Polymer Nanosheets for Organic Electronic Memory and Gold Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12742-12748	3.8	120
9	Preparation and Memory Performance of a Nanoaggregated Dispersed Red 1-Functionalized Poly (N-vinylcarbazole) Film via Solution-Phase Self-Assembly. <i>Advanced Functional Materials</i> , 2010 , 20, 2916-2922	15.6	102
8	Conjugated-polymer-functionalized graphene oxide: synthesis and nonvolatile rewritable memory effect. <i>Advanced Materials</i> , 2010 , 22, 1731-5	24	359
7	Poly(N-vinylcarbazole) chemically modified graphene oxide. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2642-2649	2.5	83

6	Bistable electrical switching and electronic memory effect in a solution-processable graphene oxide-donor polymer complex. <i>Applied Physics Letters</i> , 2009 , 95, 253301	3.4	106
5	Electrical Conductance Tuning and Bistable Switching in Poly(N-vinylcarbazole)-Carbon Nanotube Composite Films. <i>ACS Nano</i> , 2009 , 3, 1929-37	16.7	163
4	Tristable electrical conductivity switching in a polyfluorene-diphenylpyridine copolymer with pendant carbazole groups. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 4203-14	3	21
3	A region-based image fusion algorithm using multiresolution segmentation		2
2	Organic Memory and Memristors: From Mechanisms, Materials to Devices. <i>Advanced Electronic Materials</i> , 2100432	6.4	17
1	MoS ₂ nanosheets chemically modified with metal phthalocyanine via mussel-inspired chemistry for multifunctional memristive devices. <i>Journal of Materials Chemistry C</i> ,	7.1	5