

Guangdong Zhou

List of Publications by Year in descending order

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71
papers

2,764
citations

159585

30
h-index

189892

50
g-index

71
all docs

71
docs citations

71
times ranked

1589
citing authors

#	ARTICLE	IF	CITATIONS
1	Memristor-Based Hierarchical Attention Network for Multimodal Affective Computing in Mental Health Monitoring. IEEE Consumer Electronics Magazine, 2023, 12, 94-106.	2.3	14
2	Reduction 93.7% time and power consumption using a memristor-based imprecise gradient update algorithm. Artificial Intelligence Review, 2022, 55, 657-677.	15.7	9
3	Self-woven monolayer polyionic mesh to achieve highly efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2022, 428, 132074.	12.7	19
4	A Weavable and Scalable Cottonâ€Yarnâ€Based Battery Activated by Human Sweat for Textile Electronics. Advanced Science, 2022, 9, e2103822.	11.2	20
5	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	5.1	94
6	Applications of biomemristors in next generation wearable electronics. Nanoscale Horizons, 2022, 7, 822-848.	8.0	19
7	Analog-to-digital and self-rectifying resistive switching behavior based on flower-like Ti-MnO_2 . Applied Surface Science, 2022, 595, 153560.	6.1	15
8	Multi-factor-controlled ReRAM devices and their applications. Journal of Materials Chemistry C, 2022, 10, 8895-8921.	5.5	22
9	Investigation of multi-photoconductance state induced by light-sensitive defect in TiO_x -based memristor. Applied Physics Letters, 2022, 120, .	3.3	18
10	Elimination of Charge Transport Layers in High-Performance Perovskite Solar Cells by Band Bending. ACS Applied Energy Materials, 2021, 4, 1294-1301.	5.1	13
11	ABO_3 multiferroic perovskite materials for memristive memory and neuromorphic computing. Nanoscale Horizons, 2021, 6, 939-970.	8.0	79
12	A Battery-Like Self-Selecting Biomemristor from Earth-Abundant Natural Biomaterials. ACS Applied Bio Materials, 2021, 4, 1976-1985.	4.6	30
13	Cobalt Phosphates Loaded into Iodine-Spaced Reduced Graphene Oxide Nanolayers for Electrochemical Measurement of Superoxide Generated by Cells. ACS Applied Nano Materials, 2021, 4, 3631-3638.	5.0	9
14	A True Random Number Generator Based on Ionic Liquid Modulated Memristors. ACS Applied Electronic Materials, 2021, 3, 2380-2388.	4.3	17
15	Synaptic devices based neuromorphic computing applications in artificial intelligence. Materials Today Physics, 2021, 18, 100393.	6.0	110
16	Negative Photoconductance Effect: An Extension Function of the TiO_x -Based Memristor. Advanced Science, 2021, 8, 2003765.	11.2	94
17	Refining the Negative Differential Resistance Effect in a TiO_x -Based Memristor. Journal of Physical Chemistry Letters, 2021, 12, 5377-5383.	4.6	41
18	TSSM: Three-State Switchable Memristor Model Based on Ag/TiO _x Nanobelt/Ti Configuration. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130020.	1.7	15

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19	Real-Time Acid Rain Sensor Based on a Triboelectric Nanogenerator Made of a PTFE/PDMS Composite Film. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4162-4171.	4.3	22
20	A high voltage direct current droplet-based electricity generator inspired by thunderbolts. <i>Nano Energy</i> , 2021, 90, 106567.	16.0	39
21	A flexible piezoelectric-triboelectric hybrid nanogenerator in one structure with dual doping enhancement effects. <i>Current Applied Physics</i> , 2021, 32, 50-58.	2.4	15
22	An analogue memristor made of silk fibroin polymer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14583-14588.	5.5	22
23	QuantBayes: Weight Optimization for Memristive Neural Networks via Quantization-Aware Bayesian Inference. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 4851-4861.	5.4	9
24	Mechanism and Application of Capacitive-Coupled Memristive Behavior Based on a Biomaterial Developed Memristive Device. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5537-5547.	4.3	7
25	Memristive System Based Image Processing Technology: A Review and Perspective. <i>Electronics (Switzerland)</i> , 2021, 10, 3176.	3.1	6
26	Non-zero-crossing current-voltage hysteresis behavior induced by capacitive effects in bio-memristor. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 565-571.	9.4	41
27	Capacitive effect: An original of the resistive switching memory. <i>Nano Energy</i> , 2020, 68, 104386.	16.0	102
28	Highly Efficient Sn/Pb Perovskite Solar Cell and High-Performance All-Perovskite Four-Terminal Tandem Solar Cell. <i>Solar Rrl</i> , 2020, 4, 1900396.	5.8	30
29	Coordinated Optical Matching of a Texture Interface Made from Demixing Blended Polymers for High-Performance Inverted Perovskite Solar Cells. <i>ACS Nano</i> , 2020, 14, 196-203.	14.6	64
30	Real-time biomimetically monitoring superoxide anions released from transient transmembrane secretion to investigate the inhibition effect on <i>Aspergillus flavus</i> growth. <i>Sensing and Bio-Sensing Research</i> , 2020, 29, 100363.	4.2	3
31	Self-Powered Memory Systems. , 2020, 2, 1669-1690.		15
32	Passive Filters for Nonvolatile Storage Based on Capacitive-Coupled Memristive Effects in Nanolayered Organic-Inorganic Heterojunction Devices. <i>ACS Applied Nano Materials</i> , 2020, 3, 5045-5052.	5.0	18
33	Biomemristors as the next generation bioelectronics. <i>Nano Energy</i> , 2020, 75, 104938.	16.0	110
34	Multilevel resistive switching memory behaviors arising from ion diffusion and photoelectron transfer in Fe_2O_3 nano-island arrays. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2743-2747.	2.8	11
35	Mechanism analysis of a flexible organic memristive memory with capacitance effect and negative differential resistance state. <i>APL Materials</i> , 2019, 7, .	5.1	51
36	A Unified Capacitive-Coupled Memristive Model for the Nonpinched Current-Voltage Hysteresis Loop. <i>Nano Letters</i> , 2019, 19, 6461-6465.	9.1	128

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37	Resistive switching behaviors and memory logic functions in single MnO _x nanorod modulated by moisture. <i>Chemical Communications</i> , 2019, 55, 9915-9918.	4.1	51
38	First-principles study on the structure, magnetism, and electronic properties in inverse Heusler alloy Ti ₂ FeAl/GaAs(100) heterojunction. <i>Superlattices and Microstructures</i> , 2019, 133, 106205.	3.1	2
39	Mechanism analysis of switching direction transformation in an Er ₂ O ₃ based RRAM device. <i>Current Applied Physics</i> , 2019, 19, 1421-1426.	2.4	7
40	Evolution map of the memristor: from pure capacitive state to resistive switching state. <i>Nanoscale</i> , 2019, 11, 17222-17229.	5.6	45
41	Tunneling of photon-generated carrier in the interface barrier induced resistive switching memory behaviour. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 682-687.	9.4	16
42	Artificial and wearable albumen protein memristor arrays with integrated memory logic gate functionality. <i>Materials Horizons</i> , 2019, 6, 1877-1882.	12.2	116
43	Resistive switching memory integrated with amorphous carbon-based nanogenerators for self-powered device. <i>Nano Energy</i> , 2019, 63, 103793.	16.0	111
44	Visible light-induced resistive switching behaviors in single MnO nanorod: Reversing between resistor and memristor. <i>Journal of Alloys and Compounds</i> , 2019, 802, 546-552.	5.5	10
45	An excellent pH-controlled resistive switching memory device based on self-colored (C ₇ H ₇ O ₄ N) _n extracted from a lichen plant. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7593-7600.	5.5	31
46	Investigation of a submerging redox behavior in Fe ₂ O ₃ solid electrolyte for resistive switching memory. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	78
47	Nanorod Array of SnO ₂ Quantum Dot Interspersed Multiphase TiO ₂ Heterojunctions with Highly Photocatalytic Water Splitting and Self-Rechargeable Battery-Like Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2071-2081.	8.0	48
48	Photoinduced triboelectric polarity reversal and enhancement of a new metal/semiconductor triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 58, 331-337.	16.0	39
49	A flexible nonvolatile resistive switching memory device based on ZnO film fabricated on a foldable PET substrate. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 19-24.	9.4	59
50	Improved Rate and Cycling Performances of Electrodes Based on BiFeO ₃ Nanoflakes by Compositing with Organic Pectin for Advanced Rechargeable Na-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2018, 1, 1291-1299.	5.0	34
51	Coexistence of Negative Differential Resistance and Resistive Switching Memory at Room Temperature in TiO _x Modulated by Moisture. <i>Advanced Electronic Materials</i> , 2018, 4, 1700567.	5.1	147
52	Structure, Magnetism, and Electronic Properties of Inverse Heusler Alloy Ti ₂ CoAl/MgO(100) Heterojunction: The Role of Interfaces. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2336.	2.5	6
53	The N, N-Dimethylformamide Annealing for Enhanced Performance of Perovskite Solar Cells Fabricated in Ambient Air. <i>Nano</i> , 2018, 13, 1850102.	1.0	0
54	Enhancing the open circuit voltage of PEDOT:PSS-PC61BM based inverted planar mixed halide perovskite solar cells from 0.93 to 1.05 V by simply oxidizing PC61BM. <i>Organic Electronics</i> , 2018, 59, 260-265.	2.6	14

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55	Pentacene as a hole transport material for high performance planar perovskite solar cells. <i>Current Applied Physics</i> , 2018, 18, 1095-1100.	2.4	13
56	Bipolar resistive switching memory behaviors of the micro-size composite particles. <i>Composite Structures</i> , 2017, 166, 177-183.	5.8	17
57	Effect of temperature on the magnetism and memristive memory behavior of MoSe 2 nanosheets. <i>Materials Letters</i> , 2017, 202, 13-16.	2.6	19
58	An organic nonvolatile resistive switching memory device fabricated with natural pectin from fruit peel. <i>Organic Electronics</i> , 2017, 42, 181-186.	2.6	119
59	The interface degradation of planar organic-inorganic perovskite solar cell traced by light beam induced current (LBIC). <i>RSC Advances</i> , 2017, 7, 42973-42978.	3.6	12
60	Metal ion formed conductive filaments by redox process induced nonvolatile resistive switching memories in MoS 2 film. <i>Applied Surface Science</i> , 2017, 426, 812-816.	6.1	50
61	Hydrogen-peroxide-modified egg albumen for transparent and flexible resistive switching memory. <i>Nanotechnology</i> , 2017, 28, 425202.	2.6	48
62	A novel retractable spring-like-electrode triboelectric nanogenerator with highly-effective energy harvesting and conversion for sensing road conditions. <i>RSC Advances</i> , 2017, 7, 50993-51000.	3.6	15
63	Mechanism for an enhanced resistive switching effect of bilayer NiO /TiO2 for resistive random access memory. <i>Journal of Alloys and Compounds</i> , 2017, 722, 753-759.	5.5	48
64	A larger nonvolatile bipolar resistive switching memory behaviour fabricated using eggshells. <i>Current Applied Physics</i> , 2017, 17, 235-239.	2.4	33
65	Effect of Cu ions assisted conductive filament on resistive switching memory behaviors in ZnFe2O4-based devices. <i>Journal of Alloys and Compounds</i> , 2017, 694, 464-470.	5.5	52
66	Investigation of the behaviour of electronic resistive switching memory based on MoSe2-doped ultralong Se microwires. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	86
67	Resistance switching characteristics of core-shell $\text{Fe}_3\text{O}_4/\text{Ni}_2\text{O}_3$ nanoparticles in HfSiO matrix. <i>Journal of Alloys and Compounds</i> , 2016, 678, 31-35.	5.5	20
68	Current-voltage hysteresis of the composite MoS2-MoO ₃ nanobelts for data storage. <i>Journal of Alloys and Compounds</i> , 2016, 679, 47-53.	5.5	19
69	Band gap energies for white nanosheets/yellow nanoislands/purple nanorods of CeO ₂ . <i>RSC Advances</i> , 2016, 6, 59370-59374.	3.6	21
70	Two-bit memory and quantized storage phenomenon in conventional MOS structures with double-stacked Pt-NCs in an HfAlO matrix. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6509-6514.	2.8	26
71	Memory characteristics and tunneling mechanism of Pt nano-crystals embedded in HfAlO films for nonvolatile flash memory devices. <i>Current Applied Physics</i> , 2015, 15, 279-284.	2.4	21