

Qilin Hua

List of Publications by Year in descending order

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37
papers

2,235
citations

430442

18
h-index

414034

32
g-index

37
all docs

37
docs citations

37
times ranked

3488
citing authors

#	ARTICLE	IF	CITATIONS
1	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. Nature Communications, 2018, 9, 244.	5.8	1,034
2	Flexible, Stretchable and Wearable Multifunctional Sensor Array as Artificial Electronic Skin for Static and Dynamic Strain Mapping. Advanced Electronic Materials, 2015, 1, 1500142.	2.6	226
3	Shape-Adaptive, Self-Healable Triboelectric Nanogenerator with Enhanced Performances by Soft Solid-Solid Contact Electrification. ACS Nano, 2019, 13, 8936-8945.	7.3	121
4	A Threshold Switching Selector Based on Highly Ordered Ag Nanodots for X-Point Memory Applications. Advanced Science, 2019, 6, 1900024.	5.6	91
5	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. ACS Nano, 2019, 13, 4507-4513.	7.3	82
6	Flexible quantum dot-sensitized solar cells employing CoS nanorod arrays/graphite paper as effective counter electrodes. Journal of Materials Chemistry A, 2014, 2, 13661.	5.2	80
7	Bioinspired Electronic Whisker Arrays by Pencil-Drawn Paper for Adaptive Tactile Sensing. Advanced Electronic Materials, 2016, 2, 1600093.	2.6	59
8	Strain-controlled power devices as inspired by human reflex. Nature Communications, 2020, 11, 326.	5.8	53
9	Atomic threshold-switching enabled MoS ₂ transistors towards ultralow-power electronics. Nature Communications, 2020, 11, 6207.	5.8	52
10	CoS NWs/Au Hybridized Networks as Efficient Counter Electrodes for Flexible Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500141.	10.2	46
11	Piezotronic Effect Modulated Flexible AlGa _N /Ga _N High-Electron-Mobility Transistors. ACS Nano, 2019, 13, 13161-13168.	7.3	44
12	MXene enhanced self-powered alternating current electroluminescence devices for patterned flexible displays. Nano Energy, 2021, 86, 106077.	8.2	44
13	High-Uniformity Threshold Switching HfO ₂ -Based Selectors with Patterned Ag Nanodots. Advanced Science, 2020, 7, 2002251.	5.6	43
14	Low-Voltage Oscillatory Neurons for Memristor-Based Neuromorphic Systems. Global Challenges, 2019, 3, 1900015.	1.8	35
15	Piezotronic Synapse Based on a Single Ga _N Microwire for Artificial Sensory Systems. Nano Letters, 2020, 20, 3761-3768.	4.5	26
16	Stable Ultrathin Perovskite/Polyvinylidene Fluoride Composite Films for Imperceptible Multi-Color Fluorescent Anti-Counterfeiting Labels. Advanced Materials Technologies, 2021, 6, 2100229.	3.0	26
17	A ZnO micro/nanowire-based photonic synapse with piezo-phototronic modulation. Nano Energy, 2021, 89, 106282.	8.2	26
18	A Bamboo-Like Ga _N Microwire-Based Piezotronic Memristor. Advanced Functional Materials, 2016, 26, 5307-5314.	7.8	24

#	ARTICLE	IF	CITATIONS
19	Enhanced performances of AlGaIn/GaN HEMTs with dielectric engineering of HfZrOx. Nano Energy, 2020, 68, 104361.	8.2	18
20	Flexible GaN microwire-based piezotronic sensory memory device. Nano Energy, 2020, 78, 105312.	8.2	13
21	Enhanced Heat Dissipation in Gallium Nitride-Based Light-Emitting Diodes by Piezo-phototronic Effect. Nano Letters, 2021, 21, 4062-4070.	4.5	13
22	Flexible, stretchable, and transparent InGaIn/GaN multiple quantum wells/polyacrylamide hydrogel-based light emitting diodes. Nano Research, 2022, 15, 5492-5499.	5.8	11
23	Recent Progress in Ohmic/Schottky-Contacted ZnO Nanowire Sensors. Journal of Nanomaterials, 2015, 2015, 1-20.	1.5	10
24	Aluminum, Gallium, and Indium Nitrides. , 2021, , 74-83.		10
25	Enhanced Photoluminescence of Flexible InGaIn/GaN Multiple Quantum Wells on Fabric by Piezo-Phototronic Effect. ACS Applied Materials & Interfaces, 2022, 14, 3000-3007.	4.0	7
26	Impact of variations of threshold voltage and hold voltage of threshold switching selectors in 1S1R crossbar array. Chinese Physics B, 2018, 27, 118502.	0.7	5
27	Enhanced performance of Ag-filament threshold switching selector by rapid thermal processing. , 2018, , .		5
28	Piezotronics enabled artificial intelligence systems. JPhys Materials, 2021, 4, 022003.	1.8	5
29	Piezo-phototronics in quantum well structures. Journal of Applied Physics, 2022, 131, .	1.1	5
30	Formation mechanism of the pinholes in brown glazed stoneware from Yaozhou kiln. Archaeometry, 2022, 64, 644-654.	0.6	5
31	Threshold Switching Selectors: A Threshold Switching Selector Based on Highly Ordered Ag Nanodots for X-Point Memory Applications (Adv. Sci. 10/2019). Advanced Science, 2019, 6, 1970058.	5.6	4
32	Effect of backside dry etching on the device performance of AlGaIn/GaN HEMTs. Nanotechnology, 2021, 32, 355203.	1.3	4
33	Dynamic piezo-phototronic effect in InGaIn/GaN multiple quantum wells. Superlattices and Microstructures, 2021, 155, 106926.	1.4	4
34	A novel steep slope hybrid InGaZnO TFT with negative DIBL improvement based on the Ag/HfO ₂ threshold switching device. Applied Physics Express, 2019, 12, 091002.	1.1	2
35	Ag/HfO ₂ -based Threshold Switching Memristor as an Oscillatory Neuron. , 2021, , .		1
36	A Threshold Switching Selector Based on Highly Ordered Ag Nanodots for X-Point Memory Applications. , 2019, 6, 1900024.		1

#	ARTICLE	IF	CITATIONS
37	A cantilever-structured AlkGaN/GaN HEMT for building a strain-controlled platform. , 2021, , .		0