

Guoyun Gao

List of Publications by Year in descending order

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22
papers

1,899
citations

404762

18
h-index

653287

22
g-index

23
all docs

23
docs citations

23
times ranked

3115
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired mechano-photonic artificial synapse based on graphene/MoS ₂ heterostructure. <i>Science Advances</i> , 2021, 7, .	10.9	230
2	Flexible Photodetector Arrays Based on Patterned CH ₃ NH ₃ PbI ₃ Cl _x Perovskite Film for Real-Time Photosensing and Imaging. <i>Advanced Materials</i> , 2019, 31, e1805913.	24.3	185
3	Piezotronic Graphene Artificial Sensory Synapse. <i>Advanced Functional Materials</i> , 2019, 29, 1900959.	16.5	161
4	p-type MoS ₂ and n-type ZnO Diode and Its Performance Enhancement by the Piezophototronic Effect. <i>Advanced Materials</i> , 2016, 28, 3391-3398.	24.3	151
5	Contact-electrification-activated artificial afferents at femtojoule energy. <i>Nature Communications</i> , 2021, 12, 1581.	13.2	135
6	A flexible p-CuO/n-MoS ₂ heterojunction photodetector with enhanced photoresponse by the piezo-phototronic effect. <i>Materials Horizons</i> , 2017, 4, 274-280.	12.8	132
7	Mechanoplastic Tribotronic Floating-Gate Neuromorphic Transistor. <i>Advanced Functional Materials</i> , 2020, 30, 2002506.	16.5	123
8	Tunable Tribotronic Dual-Gate Logic Devices Based on 2D MoS ₂ and Black Phosphorus. <i>Advanced Materials</i> , 2018, 30, e1705088.	24.3	109
9	Tribotronic Transistor of MoS ₂ . <i>Advanced Materials</i> , 2019, 31, e1806905.	24.3	99
10	MoS ₂ Negative-Capacitance Field-Effect Transistors with Subthreshold Swing below the Physics Limit. <i>Advanced Materials</i> , 2018, 30, e1800932.	24.3	94
11	Enhancing Photoresponsivity of Self-Aligned MoS ₂ Field-Effect Transistors by Piezo-Phototronic Effect from GaN Nanowires. <i>ACS Nano</i> , 2016, 10, 7451-7457.	15.3	88
12	Atomic threshold-switching enabled MoS ₂ transistors towards ultralow-power electronics. <i>Nature Communications</i> , 2020, 11, 6207.	13.2	69
13	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. <i>ACS Nano</i> , 2018, 12, 4903-4908.	15.3	66
14	Recent Advances in Large-Scale Tactile Sensor Arrays Based on a Transistor Matrix. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801061.	4.1	49
15	Ion Gel Capacitively Coupled Tribotronic Gating for Multiparameter Distance Sensing. <i>ACS Nano</i> , 2020, 14, 3461-3468.	15.3	46
16	Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS ₂ Field-Effect Transistor. <i>ACS Nano</i> , 2019, 13, 582-590.	15.3	39
17	Growth of Tellurium Nanobelts on h-BN for p-type Transistors with Ultrahigh Hole Mobility. <i>Nano-Micro Letters</i> , 2022, 14, 109.	27.9	38
18	Coupled Ion-Gel Channel-Width Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1807837.	16.5	29

#	ARTICLE	IF	CITATIONS
19	Rational design of an ITO/CuS nanosheet network composite film as a counter electrode for flexible dye sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8130-8134.	5.6	17
20	CuS nanotrough-networks for highly stable transparent conducting electrodes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4733-4739.	5.6	16
21	Self-powered bifunctional sensor based on tribotronic planar graphene transistors. <i>Scientific Reports</i> , 2021, 11, 21483.	3.4	5
22	Scratching lithography, manipulation, and soldering of 2D materials using microneedle probes. <i>AIP Advances</i> , 2024, 14, .	1.3	0