

Longfei Wang

List of Publications by Year in descending order

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35
papers

2,622
citations

172207

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360668

35
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times ranked

2994
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezotronic Effect Enhanced Photocatalysis in Strained Anisotropic ZnO/TiO ₂ Nanoplatelets <i>via</i> Thermal Stress. ACS Nano, 2016, 10, 2636-2643.	7.3	258
2	Flexoelectronics of centrosymmetric semiconductors. Nature Nanotechnology, 2020, 15, 661-667.	15.6	175
3	Fluid eddy induced piezo-promoted photodegradation of organic dye pollutants in wastewater on ZnO nanorod arrays/3D Ni foam. Materials Today, 2017, 20, 501-506.	8.3	157
4	p ⁺ -type MoS ₂ and n ⁺ -type ZnO Diode and Its Performance Enhancement by the Piezophototronic Effect. Advanced Materials, 2016, 28, 3391-3398.	11.1	143
5	A highly efficient triboelectric negative air ion generator. Nature Sustainability, 2021, 4, 147-153.	11.5	143
6	Fully Elastic and Metal-free Tactile Sensors for Detecting both Normal and Tangential Forces Based on Triboelectric Nanogenerators. Advanced Functional Materials, 2018, 28, 1802989.	7.8	124
7	Piezophototronic Effect Enhanced Flexible Solar Cells Based on ZnO/p-SnS Core-Shell Nanowire Array. Advanced Science, 2017, 4, 1600185.	5.6	110
8	Energy Harvesting from Breeze Wind (0.7 m/s) Using Ultra-stretchable Triboelectric Nanogenerator. Advanced Energy Materials, 2020, 10, 2001770.	10.2	107
9	Tunable Tribotronic Dual-Gate Logic Devices Based on 2D MoS ₂ and Black Phosphorus. Advanced Materials, 2018, 30, e1705088.	11.1	105
10	MoS ₂ Tribotronic Transistor for Smart Tactile Switch. Advanced Functional Materials, 2016, 26, 2104-2109.	7.8	96
11	Strain-Gated Field Effect Transistor of a MoS ₂ -ZnO 2D-1D Hybrid Structure. ACS Nano, 2016, 10, 1546-1551.	7.3	80
12	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 1894-1900.	7.3	79
13	Ultrasensitive 2D ZnO Piezotronic Transistor Array for High Resolution Tactile Imaging. Advanced Materials, 2017, 29, 1606346.	11.1	79
14	Tribotronic Enhanced Photoresponsivity of a MoS ₂ Phototransistor. Advanced Science, 2016, 3, 1500419.	5.6	77
15	Hierarchical hybrid nanostructures of Sn ₃ O ₄ on N doped TiO ₂ nanotubes with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2015, 3, 19129-19136.	5.2	70
16	Piezo-phototronic Effect Enhanced Photodetector Based on CH ₃ NH ₃ PbI ₃ Single Crystals. ACS Nano, 2018, 12, 10501-10508.	7.3	67
17	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. ACS Nano, 2018, 12, 4903-4908.	7.3	63
18	Piezotronic Effect on Rashba Spin-Orbit Coupling in a ZnO/P3HT Nanowire Array Structure. ACS Nano, 2018, 12, 1811-1820.	7.3	61

#	ARTICLE	IF	CITATIONS
19	2D piezotronics in atomically thin zinc oxide sheets: Interfacing gating and channel width gating. <i>Nano Energy</i> , 2019, 60, 724-733.	8.2	60
20	Non-contact and liquid-liquid interfacing triboelectric nanogenerator for self-powered water/liquid level sensing. <i>Nano Energy</i> , 2020, 72, 104703.	8.2	59
21	Highly sensitive strain sensors based on piezotronic tunneling junction. <i>Nature Communications</i> , 2022, 13, 778.	5.8	58
22	Enhanced photoresponsivity of the MoS ₂ -GaN heterojunction diode via the piezo-phototronic effect. <i>NPG Asia Materials</i> , 2017, 9, e418-e418.	3.8	57
23	A flexible and wide pressure range triboelectric sensor array for real-time pressure detection and distribution mapping. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23827-23833.	5.2	53
24	Advances in piezotronic transistors and piezotronics. <i>Nano Today</i> , 2021, 37, 101108.	6.2	48
25	Ultrasensitive Vertical Piezotronic Transistor Based on ZnO Twin Nanoplatelet. <i>ACS Nano</i> , 2017, 11, 4859-4865.	7.3	45
26	Performance enhanced triboelectric nanogenerator by taking advantage of water in humid environments. <i>Nano Energy</i> , 2021, 88, 106303.	8.2	36
27	Double-Channel Piezotronic Transistors for Highly Sensitive Pressure Sensing. <i>ACS Nano</i> , 2018, 12, 1732-1738.	7.3	33
28	Triboelectric Nanogenerator Based on a Rotational Magnetic Ball for Harvesting Transmission Line Magnetic Energy. <i>Advanced Functional Materials</i> , 2022, 32, 2108827.	7.8	33
29	Piezotronic and piezo-phototronic effects of atomically-thin ZnO nanosheets. <i>Nano Energy</i> , 2021, 82, 105653.	8.2	32
30	Energy conversion system based on Curie effect and triboelectric nanogenerator for low-grade heat energy harvesting. <i>Nano Energy</i> , 2022, 91, 106652.	8.2	29
31	Revealing Electrical Poling-Induced Polarization Potential in Hybrid Perovskite Photodetectors. <i>Advanced Materials</i> , 2020, 32, e2005481.	11.1	23
32	Piezo-phototronic and pyro-phototronic effects to enhance Cu(In, Ga)Se ₂ thin film solar cells. <i>Nano Research</i> , 2018, 11, 3877-3885.	5.8	22
33	Enhanced Spin-Orbit Coupled Photoluminescence of Perovskite CsPbBr ₃ Quantum Dots by Piezo-Phototronic Effect. <i>Nano Letters</i> , 2020, 20, 8298-8304.	4.5	19
34	Piezotronic Tunneling Junction Gated by Mechanical Stimuli. <i>Advanced Materials</i> , 2019, 31, e1905436.	11.1	14
35	Statistical Piezotronic Effect in Nanocrystal Bulk by Anisotropic Geometry Control. <i>Advanced Functional Materials</i> , 2021, 31, 2010339.	7.8	4