Longfei Wang

List of Publications by Year
in descending order

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35 papers	2,622 citations	172207 29 h-index	360668 35 g-index
36 all docs	36 docs citations	36 times ranked	2994 citing authors

#	Article	IF	Citations
1	Energy conversion system based on Curie effect and triboelectric nanogenerator for low-grade heat energy harvesting. Nano Energy, 2022, 91, 106652.	8.2	29
2	Triboelectric Nanogenerator Based on a Rotational Magnetic Ball for Harvesting Transmission Line Magnetic Energy. Advanced Functional Materials, 2022, 32, 2108827.	7.8	33
3	Highly sensitive strain sensors based on piezotronic tunneling junction. Nature Communications, 2022, 13, 778.	5.8	58
4	Piezotronic and piezo-phototronic effects of atomically-thin ZnO nanosheets. Nano Energy, 2021, 82, 105653.	8.2	32
5	A highly efficient triboelectric negative air ion generator. Nature Sustainability, 2021, 4, 147-153.	11.5	143
6	Statistical Piezotronic Effect in Nanocrystal Bulk by Anisotropic Geometry Control. Advanced Functional Materials, 2021, 31, 2010339.	7.8	4
7	Advances in piezotronic transistors and piezotronics. Nano Today, 2021, 37, 101108.	6.2	48
8	Performance enhanced triboelectric nanogenerator by taking advantage of water in humid environments. Nano Energy, 2021, 88, 106303.	8.2	36
9	A flexible and wide pressure range triboelectric sensor array for real-time pressure detection and distribution mapping. Journal of Materials Chemistry A, 2020, 8, 23827-23833.	5.2	53
10	Revealing Electricalâ€Polingâ€Induced Polarization Potential in Hybrid Perovskite Photodetectors. Advanced Materials, 2020, 32, e2005481.	11.1	23
11	Enhanced Spinâ€“Orbit Coupled Photoluminescence of Perovskite CsPbBr₃ Quantum Dots by Piezo-Phototronic Effect. Nano Letters, 2020, 20, 8298-8304.	4.5	19
12	Energy Harvesting from Breeze Wind (0.7â€“6ÂmÂs^{â^'1}) Using Ultraâ€Stretchable Triboelectric Nanogenerator. Advanced Energy Materials, 2020, 10, 2001770.	10.2	107
13	Flexoelectronics of centrosymmetric semiconductors. Nature Nanotechnology, 2020, 15, 661-667.	15.6	175
14	Non-contact and liquidâ€“liquid interfacing triboelectric nanogenerator for self-powered water/liquid level sensing. Nano Energy, 2020, 72, 104703.	8.2	59
15	Piezotronic Tunneling Junction Gated by Mechanical Stimuli. Advanced Materials, 2019, 31, e1905436.	11.1	14
16	2D piezotronics in atomically thin zinc oxide sheets: Interfacing gating and channel width gating. Nano Energy, 2019, 60, 724-733.	8.2	60
17	Tunable Tribotronic Dualâ€Gate Logic Devices Based on 2DÂMoS₂ and Black Phosphorus. Advanced Materials, 2018, 30, e1705088.	11.1	105
18	Piezotronic Effect on Rashba Spinâ€“Orbit Coupling in a ZnO/P3HT Nanowire Array Structure. ACS Nano, 2018, 12, 1811-1820.	7.3	61

#	Article	IF	Citations
19	Double-Channel Piezotronic Transistors for Highly Sensitive Pressure Sensing. ACS Nano, 2018, 12, 1732-1738.	7.3	33
20	Piezo-phototronic and pyro-phototronic effects to enhance Cu(In, Ga)Se2 thin film solar cells. Nano Research, 2018, 11, 3877-3885.	5.8	22
21	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. ACS Nano, 2018, 12, 4903-4908.	7.3	63
22	Piezo-phototronic Effect Enhanced Photodetector Based on CH₃NH₃PbI₃ Single Crystals. ACS Nano, 2018, 12, 10501-10508.	7.3	67
23	Fully Elastic and Metalâ€Free Tactile Sensors for Detecting both Normal and Tangential Forces Based on Triboelectric Nanogenerators. Advanced Functional Materials, 2018, 28, 1802989.	7.8	124
24	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 1894-1900.	7.3	79
25	Ultrasensitive 2D ZnO Piezotronic Transistor Array for High Resolution Tactile Imaging. Advanced Materials, 2017, 29, 1606346.	11.1	79
26	Ultrasensitive Vertical Piezotronic Transistor Based on ZnO Twin Nanoplatelet. ACS Nano, 2017, 11, 4859-4865.	7.3	45
27	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
28	Enhanced photoresponsivity of the MoS2-GaN heterojunction diode via the piezo-phototronic effect. NPG Asia Materials, 2017, 9, e418-e418.	3.8	57
29	Piezoâ€Phototronic Effect Enhanced Flexible Solar Cells Based on nâ€ZnO/pâ€SnS Coreâ€“Shell Nanowire Array. Advanced Science, 2017, 4, 1600185.	5.6	110
30	MoS₂ Tribotronic Transistor for Smart Tactile Switch. Advanced Functional Materials, 2016, 26, 2104-2109.	7.8	96
31	Tribotronic Enhanced Photoresponsivity of a MoS₂ Phototransistor. Advanced Science, 2016, 3, 1500419.	5.6	77
32	pâ€Type MoS₂ and nâ€Type ZnO Diode and Its Performance Enhancement by the Piezophototronic Effect. Advanced Materials, 2016, 28, 3391-3398.	11.1	143
33	Piezotronic Effect Enhanced Photocatalysis in Strained Anisotropic ZnO/TiO₂ Nanoplatelets via Thermal Stress. ACS Nano, 2016, 10, 2636-2643.	7.3	258
34	Strain-Gated Field Effect Transistor of a MoS₂â€“ZnO 2Dâ€“1D Hybrid Structure. ACS Nano, 2016, 10, 1546-1551.	7.3	80
35	Hierarchical hybrid nanostructures of Sn₃O₄ on N doped TiO₂ nanotubes with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2015, 3, 19129-19136.	5.2	70