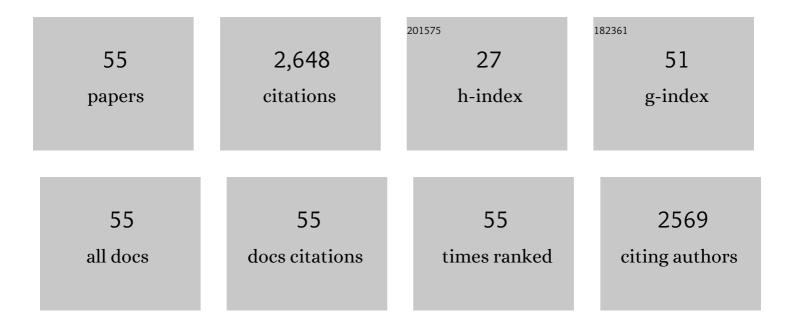
Laipan Zhu

List of Publications by Year in descending order

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Ι ΛΙΟΛΝ ΖΗΠ

#	Article	IF	CITATIONS
1	Triboelectric Leakage-Field-Induced Electroluminescence Based on ZnS:Cu. ACS Applied Materials & Interfaces, 2022, 14, 4775-4782.	4.0	15
2	Contact-electro-catalysis for the degradation of organic pollutants using pristine dielectric powders. Nature Communications, 2022, 13, 130.	5.8	83
3	Tribovoltaic Nanogenerators Based on MXene–Silicon Heterojunctions for Highly Stable Selfâ€Powered Speed, Displacement, Tension, Oscillation Angle, and Vibration Sensors. Advanced Functional Materials, 2022, 32, .	7.8	32
4	Evaluation of DLC, MoS2, and Ti3C2T thin films for triboelectric nanogenerators. Nano Energy, 2022, 97, 107185.	8.2	20
5	Ultra-Stable and Durable Piezoelectric Nanogenerator with All-Weather Service Capability Based on NÂDoped 4H-SiC Nanohole Arrays. Nano-Micro Letters, 2022, 14, 30.	14.4	57
6	Effects of Temperature on the Tribovoltaic Effect at Liquidâ€Solid Interfaces. Advanced Materials Interfaces, 2022, 9, .	1.9	24
7	Highly Sensitive Photoelectric Detection and Imaging Enhanced by the Pyroâ€Phototronic Effect Based on a Photoinduced Dynamic Schottky Effect in 4Hâ€SiC. Advanced Materials, 2022, 34, .	11.1	21
8	Polarization-Sensitive Light Sensors Based on a Bulk Perovskite MAPbBr3 Single Crystal. Materials, 2021, 14, 1238.	1.3	3
9	Flexible and wearable piezoelectric nanogenerators based on P(VDF-TrFE)/SnS nanocomposite micropillar array. Journal of Applied Physics, 2021, 129, .	1.1	14
10	Piezoelectric Nanogenerator Based on In Situ Growth Allâ€Inorganic CsPbBr ₃ Perovskite Nanocrystals in PVDF Fibers with Longâ€Term Stability. Advanced Functional Materials, 2021, 31, 2011073.	7.8	95
11	Flexible Piezoelectric Nanogenerators Based on P(VDF-TrFE)/CsPbBr ₃ Quantum Dot Composite Films. ACS Applied Electronic Materials, 2021, 3, 2136-2144.	2.0	33
12	Piezoelectric nanogenerators with high performance against harsh conditions based on tunable N doped 4H-SiC nanowire arrays. Nano Energy, 2021, 83, 105826.	8.2	56
13	Enhanced Flexible Poly(vinylidene fluoride-trifluorethylene) Piezoelectric Nanogenerators by SnSe Nanosheet Doping and Solvent Treatment. ACS Applied Materials & Interfaces, 2021, 13, 32278-32285.	4.0	16
14	A Flexible Multifunctional Triboelectric Nanogenerator Based on MXene/PVA Hydrogel. Advanced Functional Materials, 2021, 31, 2104928.	7.8	259
15	Progress in Piezoelectric Nanogenerators Based on PVDF Composite Films. Micromachines, 2021, 12, 1278.	1.4	24
16	Self-Powered High-Responsivity Photodetectors Enhanced by the Pyro-Phototronic Effect Based on a BaTiO ₃ /GaN Heterojunction. Nano Letters, 2021, 21, 8808-8816.	4.5	51
17	Enhanced Spin–Orbit Coupled Photoluminescence of Perovskite CsPbBr ₃ Quantum Dots by Piezo-Phototronic Effect. Nano Letters, 2020, 20, 8298-8304.	4.5	19
18	Flexible Piezoelectric Nanogenerators Based on P(VDF–TrFE)/GeSe Nanocomposite Films. ACS Applied Electronic Materials, 2020, 2, 2369-2374.	2.0	25

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19	Piezotronic effect on Rashba spin–orbit coupling based on MAPbI3/ZnO heterostructures. Applied Physics Letters, 2020, 117, 071601.	1.5	7
20	Flexoelectronics of centrosymmetric semiconductors. Nature Nanotechnology, 2020, 15, 661-667.	15.6	175
21	Piezo-phototronic effect enhanced polarization-sensitive photodetectors based on cation-mixed organic–inorganic perovskite nanowires. Materials Today, 2020, 37, 56-63.	8.3	28
22	Scanning Probing of the Tribovoltaic Effect at the Sliding Interface of Two Semiconductors. Advanced Materials, 2020, 32, e2000928.	11.1	93
23	Flexible Difunctional (Pressure and Light) Sensors Based on ZnO Nanowires/Graphene Heterostructures. Advanced Materials Interfaces, 2020, 7, 1901932.	1.9	16
24	Comparison of spin photocurrent in devices based on in-plane or out-of-plane magnetized CoFeB spin detectors. Physical Review B, 2019, 100, .	1.1	2
25	High-performance triboelectric nanogenerators for self-powered, in-situ and real-time water quality mapping. Nano Energy, 2019, 66, 104117.	8.2	127
26	Electron Transfer in Nanoscale Contact Electrification: Photon Excitation Effect. Advanced Materials, 2019, 31, e1901418.	11.1	84
27	Progress in piezotronics and piezo-phototronics of quantum materials. Journal Physics D: Applied Physics, 2019, 52, 343001.	1.3	23
28	2D piezotronics in atomically thin zinc oxide sheets: Interfacing gating and channel width gating. Nano Energy, 2019, 60, 724-733.	8.2	60
29	Defect repair for enhanced piezo-phototronic MoS ₂ flexible phototransistors. Journal of Materials Chemistry C, 2019, 7, 14731-14738.	2.7	20
30	Recent Progress in Piezoâ€Phototronic Effect Enhanced Solar Cells. Advanced Functional Materials, 2019, 29, 1808214.	7.8	57
31	Comprehensive Pyroâ€Phototronic Effect Enhanced Ultraviolet Detector with ZnO/Ag Schottky Junction. Advanced Functional Materials, 2019, 29, 1807111.	7.8	95
32	Observation of Unusual Optical Band Structure of CH ₃ NH ₃ Pbl ₃ Perovskite Single Crystal. ACS Photonics, 2018, 5, 1583-1590.	3.2	32
33	Piezotronic Effect on Rashba Spin–Orbit Coupling in a ZnO/P3HT Nanowire Array Structure. ACS Nano, 2018, 12, 1811-1820.	7.3	61
34	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. Nano Energy, 2018, 45, 380-389.	8.2	178
35	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
36	Ultrathin Piezotronic Transistors with 2 nm Channel Lengths. ACS Nano, 2018, 12, 4903-4908.	7.3	63

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37	Piezo-phototronic Effect Enhanced Photodetector Based on CH ₃ NH ₃ PbI ₃ Single Crystals. ACS Nano, 2018, 12, 10501-10508.	7.3	67
38	Harshâ€Environmentalâ€Resistant Triboelectric Nanogenerator and Its Applications in Autodrive Safety Warning. Advanced Energy Materials, 2018, 8, 1801898.	10.2	82
39	Piezoâ€Phototronic Effect for Enhanced Flexible MoS ₂ /WSe ₂ van der Waals Photodiodes. Advanced Functional Materials, 2018, 28, 1802849.	7.8	130
40	Tunable WSe ₂ –CdS mixed-dimensional van der Waals heterojunction with a piezo-phototronic effect for an enhanced flexible photodetector. Nanoscale, 2018, 10, 14472-14479.	2.8	53
41	Optical bandgap energy of CH3NH3PbI3 perovskite studied by photoconductivity and reflectance spectroscopy. Science China Technological Sciences, 2018, 61, 886-892.	2.0	17
42	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 1894-1900.	7.3	79
43	Ultrasensitive Vertical Piezotronic Transistor Based on ZnO Twin Nanoplatelet. ACS Nano, 2017, 11, 4859-4865.	7.3	45
44	Piezoâ€Phototronic Effect Enhanced Flexible Solar Cells Based on nâ€ZnO/pâ€&nS Core–Shell Nanowire Array. Advanced Science, 2017, 4, 1600185.	5.6	110
45	Angular Dependence of the Spin Photocurrent in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Co</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Fe</mml:mi><mml: mathvariant="normal">B<mml:mo>/</mml:mo><mml:mi>MgO</mml:mi><mml:mo>/</mml:mo><mml CaAs Ougutum Well Structure, Physical Review Applied, 2017, 8</mml </mml: </mml:mrow></mml:math 	:m tø xt>â^' l:mi>n <td><!--<b-->raml:mtext ml:mi><mml:< td=""></mml:<></td>	<b raml:mtext ml:mi> <mml:< td=""></mml:<>
46	GaAs Quantum-Well Structure. Physical Review Applied, 2017, 8, . Reflectance difference spectroscopy microscope for circular defects on InN films. Optics Express, 2016, 24, 15059.	1.7	6
47	Spin transport in undoped InGaAs/AlGaAs multiple quantum well studied via spin photocurrent excited by circularly polarized light. Nanoscale Research Letters, 2016, 11, 8.	3.1	14
48	New method for thickness determination and microscopic imaging of graphene-like two-dimensional materials. Journal of Semiconductors, 2016, 37, 013002.	2.0	3
49	Temperature dependence of spin photocurrent spectra induced by Rashba- and Dresselhaus-type circular photogalvanic effect at inter-band excitation in InGaAs/AlGaAs quantum wells. Optics Express, 2015, 23, 27250.	1.7	11
50	Observation of interface dependent spin polarized photocurrents in InAs/GaSb superlattice. Applied Physics Letters, 2015, 106, 192402.	1.5	5
51	Observation of anomalous linear photogalvanic effect and its dependence on wavelength in undoped InGaAs/AlGaAs multiple quantum well. Nanoscale Research Letters, 2014, 9, 493.	3.1	1
52	Spin depolarization under low electric fields at low temperatures in undoped InGaAs/AlGaAs multiple quantum well. Applied Physics Letters, 2014, 105, 152103.	1.5	11
53	Observation of linear and quadratic magnetic field-dependence of magneto-photocurrents in InAs/GaSb superlattice. Nanoscale Research Letters, 2014, 9, 279.	3.1	4
54	Giant in-plane optical anisotropy of <i>a</i> -plane ZnO on <i>r</i> -plane sapphire. Journal of Semiconductors, 2013, 34, 122003.	2.0	0

#	Article	IF	CITATIONS
55	Identifying different mechanisms of circular photogalvanic effect in GaAs/Al0.3Ga0.7As two dimensional electron gas by photo-modulation technique. Applied Physics Letters, 2013, 102, .	1.5	8