## Pei Lin

## List of Publications by Year in descending order

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109321 133252 4,074 61 35 59 citations h-index g-index papers 61 61 61 5301 docs citations citing authors all docs times ranked

#	Article	IF	CITATIONS
1	Coupled Triboelectric Nanogenerator Networks for Efficient Water Wave Energy Harvesting. ACS Nano, 2018, 12, 1849-1858.	14.6	299
2	Ultrabroadband and High-Detectivity Photodetector Based on WS <sub>2</sub> /Ge Heterojunction through Defect Engineering and Interface Passivation. ACS Nano, 2021, 15, 10119-10129.	14.6	252
3	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. Advanced Materials, 2016, 28, 4441-4448.	21.0	234
4	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. Nano Energy, 2018, 45, 380-389.	16.0	178
5	Electron Transfer in Nanoscale Contact Electrification: Effect of Temperature in the Metal–Dielectric Case. Advanced Materials, 2019, 31, e1808197.	21.0	165
6	Mixed-dimensional PdSe <sub>2</sub> /SiNWA heterostructure based photovoltaic detectors for self-driven, broadband photodetection, infrared imaging and humidity sensing. Journal of Materials Chemistry A, 2020, 8, 3632-3642.	10.3	158
7	Highly sensitive solar-blind deep ultraviolet photodetector based on graphene/PtSe2/β-Ga2O3 2D/3D Schottky junction with ultrafast speed. Nano Research, 2021, 14, 1973-1979.	10.4	152
8	Electronic Structure Engineering of Cu2O Film/ZnO Nanorods Array All-Oxide p-n Heterostructure for Enhanced Photoelectrochemical Property and Self-powered Biosensing Application. Scientific Reports, 2015, 5, 7882.	3.3	151
9	Macroscopic self-assembly network of encapsulated high-performance triboelectric nanogenerators for water wave energy harvesting. Nano Energy, 2019, 60, 404-412.	16.0	144
10	Piezoâ€Phototronic Effect for Enhanced Flexible MoS <sub>2</sub> /WSe <sub>2</sub> van der Waals Photodiodes. Advanced Functional Materials, 2018, 28, 1802849.	14.9	130
11	Self-Powered UV Photosensor Based on PEDOT:PSS/ZnO Micro/Nanowire with Strain-Modulated Photoresponse. ACS Applied Materials & Interfaces, 2013, 5, 3671-3676.	8.0	128
12	Grapheneâ€Based Mixedâ€Dimensional van der Waals Heterostructures for Advanced Optoelectronics. Advanced Materials, 2019, 31, e1806411.	21.0	115
13	Piezotronic Interface Engineering on ZnO/Au-Based Schottky Junction for Enhanced Photoresponse of a Flexible Self-Powered UV Detector. ACS Applied Materials & Samp; Interfaces, 2014, 6, 14116-14122.	8.0	105
14	A self-powered ultraviolet photodetector based on solution-processed p-NiO/n-ZnO nanorod array heterojunction. RSC Advances, 2015, 5, 5976-5981.	3.6	97
15	Enhanced Efficiency and Stability of Perovskite Solar Cells via Anti-Solvent Treatment in Two-Step Deposition Method. ACS Applied Materials & Samp; Interfaces, 2017, 9, 7224-7231.	8.0	97
16	Two-dimensional nanomaterials for novel piezotronics and piezophototronics. Materials Today Nano, 2018, 4, 17-31.	4.6	97
17	Enzyme-coated single ZnO nanowire FET biosensor for detection of uric acid. Sensors and Actuators B: Chemical, 2013, 176, 22-27.	7.8	93
18	Enhanced photoresponse of Cu2O/ZnO heterojunction with piezo-modulated interface engineering. Nano Research, 2014, 7, 860-868.	10.4	93

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19	Improved Photoresponse Performance of Self-Powered ZnO/Spiro-MeOTAD Heterojunction Ultraviolet Photodetector by Piezo-Phototronic Effect. ACS Applied Materials & Samp; Interfaces, 2016, 8, 6137-6143.	8.0	92
20	Three-Dimensional Ordered ZnO/Cu <sub>2</sub> O Nanoheterojunctions for Efficient Metal–Oxide Solar Cells. ACS Applied Materials & Solar Cells.	8.0	74
21	Enhanced Performance of ZnO Piezotronic Pressure Sensor through Electron-Tunneling Modulation of MgO Nanolayer. ACS Applied Materials & Samp; Interfaces, 2015, 7, 1602-1607.	8.0	70
22	Piezo-phototronic Effect Enhanced Photodetector Based on CH <sub>3</sub> NH <sub>3</sub> Pbl <sub>3</sub> Single Crystals. ACS Nano, 2018, 12, 10501-10508.	14.6	67
23	Highly sensitive uric acid biosensor based on individual zinc oxide micro/nanowires. Mikrochimica Acta, 2013, 180, 759-766.	5.0	65
24	In Situ Transmission Electron Microscopy Investigation on Fatigue Behavior of Single ZnO Wires under High-Cycle Strain. Nano Letters, 2014, 14, 480-485.	9.1	62
25	Piezotronic Effect on Rashba Spin–Orbit Coupling in a ZnO/P3HT Nanowire Array Structure. ACS Nano, 2018, 12, 1811-1820.	14.6	61
26	Functional nanogenerators as vibration sensors enhanced by piezotronic effects. Nano Research, 2014, 7, 190-198.	10.4	56
27	Tunable WSe <sub>2</sub> –CdS mixed-dimensional van der Waals heterojunction with a piezo-phototronic effect for an enhanced flexible photodetector. Nanoscale, 2018, 10, 14472-14479.	5.6	53
28	WS2/CsPbBr3 van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. Nano Energy, 2019, 65, 104001.	16.0	48
29	A defect-induced broadband photodetector based on WS <sub>2</sub> /pyramid Si 2D/3D mixed-dimensional heterojunction with a light confinement effect. Nanoscale, 2021, 13, 13550-13557.	5.6	48
30	Universal Selective Dispersion of Semiconducting Carbon Nanotubes from Commercial Sources Using a Supramolecular Polymer. ACS Nano, 2017, 11, 5660-5669.	14.6	47
31	Highly-efficient and stable photocatalytic activity of lead-free Cs2AgInCl6 double perovskite for organic pollutant degradation. Journal of Colloid and Interface Science, 2021, 596, 376-383.	9.4	47
32	Low-voltage blue light emission from n-ZnO/p-GaN heterojunction formed by RF magnetron sputtering method. Current Applied Physics, 2014, 14, 345-348.	2.4	41
33	Tunable WSe2/WS2 van der Waals heterojunction for self-powered photodetector and photovoltaics. Journal of Alloys and Compounds, 2020, 842, 155890.	5.5	40
34	Design of efficient dye-sensitized solar cells with patterned ZnO–ZnS core–shell nanowire array photoanodes. Nanoscale, 2014, 6, 4691-4697.	5.6	38
35	Two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene-based nanostructures for emerging optoelectronic applications. Materials Horizons, 2021, 8, 2929-2963.	12.2	37
36	A tunable ZnO/electrolyte heterojunction for a self-powered photodetector. Physical Chemistry Chemical Physics, 2014, 16, 26697-26700.	2.8	32

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37	Gold nanoparticles coated zinc oxide nanorods as the matrix for enhanced I-lactate sensing. Colloids and Surfaces B: Biointerfaces, 2015, 126, 476-480.	5.0	32
38	A high-performance short-wave infrared phototransistor based on a 2D tellurium/MoS <sub>2</sub> van der Waals heterojunction. Journal of Materials Chemistry C, 2021, 9, 13123-13131.	5.5	32
39	A self-powered strain senor based on a ZnO/PEDOT:PSS hybrid structure. RSC Advances, 2013, 3, 17011.	3.6	30
40	Fabrication of 2D PdSe <sub>2</sub> /3D CdTe Mixed-Dimensional van der Waals Heterojunction for Broadband Infrared Detection. ACS Applied Materials & Samp; Interfaces, 2021, 13, 41791-41801.	8.0	30
41	High sensitivity, fast speed and self-powered ultraviolet photodetectors based on ZnO micro/nanowire networks. Progress in Natural Science: Materials International, 2014, 24, 1-5.	4.4	28
42	Size effect in a cantilevered ZnO micro/nanowire and its potential as a performance tunable force sensor. RSC Advances, 2013, 3, 19375.	3.6	27
43	Size dependence and UV irradiation tuning of the surface potential in single conical ZnO nanowires. RSC Advances, 2015, 5, 42075-42080.	3.6	26
44	Ultraviolet and visible photoresponse properties of a ZnO/Si heterojunction at zero bias. RSC Advances, 2013, 3, 17682.	3.6	24
45	Surpassing the Exciton Diffusion Limit in Single-Walled Carbon Nanotube Sensitized Solar Cells. ACS Nano, 2016, 10, 11258-11265.	14.6	22
46	Piezo-phototronic and pyro-phototronic effects to enhance Cu(In, Ga)Se2 thin film solar cells. Nano Research, 2018, 11, 3877-3885.	10.4	22
47	Defect repair for enhanced piezo-phototronic MoS <sub>2</sub> flexible phototransistors. Journal of Materials Chemistry C, 2019, 7, 14731-14738.	5.5	20
48	Facile fabrication of large-scale patterned ZnO nanorod arrays with tunable arrangement, period and morphology. CrystEngComm, 2013, 15, 8022.	2.6	19
49	Illumination-dependent free carrier screening effect on the performance evolution of ZnO piezotronic strain sensor. Nano Research, 2016, 9, 1091-1100.	10.4	16
50	Mixed-dimensional Te/CdS van der Waals heterojunction for self-powered broadband photodetector. Nanotechnology, 2021, 32, 415201.	2.6	16
51	Tunable channel width of a UV-gate field effect transistor based on ZnO micro-nano wire. RSC Advances, 2014, 4, 18378.	3.6	14
52	Investigation on the Mechanism of Nanodamage and Nanofailure for Single ZnO Nanowires under an Electric Field. ACS Applied Materials & Samp; Interfaces, 2014, 6, 2344-2349.	8.0	12
53	Polarityâ€Dependent Piezotronic Effect and Controllable Transport Modulation of ZnO with Multifield Coupled Interface Engineering. Advanced Materials Interfaces, 2017, 4, 1600842.	3.7	12
54	AFM investigation of nanomechanical properties of ZnO nanowires. RSC Advances, 2015, 5, 33445-33449.	3.6	6

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55	Skin-attachable and flexible MWCNT grid/Ecoflex strain sensors with fast equilibrium of response for detection of sound vibrations and human motions. Journal of Materials Science: Materials in Electronics, 2021, 32, 26439-26448.	2.2	6
56	Genetic and Chemical Diversity of Edible Mushroom Pleurotus Species. BioMed Research International, 2022, 2022, 1-13.	1.9	6
57	Controllable synthesis of CsxPbyBrz-based perovskites by a polar solvent-triggered transformation method and its application as an invisible security ink. Journal of Materials Science, 2020, 55, 6826-6833.	3.7	5
58	Asymmetric Behavior in Flexible Piezoelectric Strain Sensors Made of Single ZnO Nanowires. Journal of Nanoscience and Nanotechnology, 2014, 14, 6084-6088.	0.9	2
59	Calibration on force upon the surface of single ZnO nanowire applied by AFM tip with different scanning angles. RSC Advances, 2015, 5, 47309-47313.	3.6	1
60	FABRICATION AND PERFORMANCE STUDY ON INDIVIDUAL ZNO NANOWIRES BASED BIOELECTRODE. , 2012, , .		0
61	Active Flexible Strain Sensor Based on Single ZnO Micro/Nanowire. Materials Research Society Symposia Proceedings, 2013, 1556, 1.	0.1	O