

# Lili Zhang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

14,335

citations

29

h-index

68

g-index

68

ext. papers

16,415

ext. citations

10.7

avg, IF

6.18

L-index

#	Paper	IF	Citations
63	Superior thermal conductivity of single-layer graphene. <i>Nano Letters</i> , <b>2008</b> , 8, 902-7	11.5	9908
62	Hopping transport through defect-induced localized states in molybdenum disulphide. <i>Nature Communications</i> , <b>2013</b> , 4, 2642	17.4	740
61	Integrated digital inverters based on two-dimensional anisotropic ReS <sub>2</sub> field-effect transistors. <i>Nature Communications</i> , <b>2015</b> , 6, 6991	17.4	417
60	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , <b>2018</b> , 1, 130-136	28.4	348
59	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , <b>2017</b> , 3, e1700589	14.3	269
58	Van der Waals epitaxial growth and optoelectronics of large-scale WSe/SnS vertical bilayer p-n junctions. <i>Nature Communications</i> , <b>2017</b> , 8, 1906	17.4	258
57	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. <i>Nano Letters</i> , <b>2016</b> , 16, 2254-9	11.5	248
56	High Responsivity Phototransistors Based on Few-Layer ReS <sub>2</sub> for Weak Signal Detection. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1938-1944	15.6	217
55	Gate-tunable negative longitudinal magnetoresistance in the predicted type-II Weyl semimetal WTe. <i>Nature Communications</i> , <b>2016</b> , 7, 13142	17.4	166
54	Van der Waals Heterostructures for High-Performance Device Applications: Challenges and Opportunities. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903800	24	109
53	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 217-222	28.7	99
52	Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , <b>2021</b> , 4, 357-363	28.4	87
51	Reconfigurable logic and neuromorphic circuits based on electrically tunable two-dimensional homojunctions. <i>Nature Electronics</i> , <b>2020</b> , 3, 383-390	28.4	81
50	Ab initio nonadiabatic molecular dynamics investigations on the excited carriers in condensed matter systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2019</b> , 9, e1411	7.9	80
49	Negative Photoconductance in van der Waals Heterostructure-Based Floating Gate Phototransistor. <i>ACS Nano</i> , <b>2018</b> , 12, 9513-9520	16.7	75
48	Facile synthesis of iron oxides/reduced graphene oxide composites: application for electromagnetic wave absorption at high temperature. <i>Scientific Reports</i> , <b>2015</b> , 5, 9298	4.9	73
47	Rational Design of Fe <sub>2</sub> O <sub>3</sub> /Reduced Graphene Oxide Composites: Rapid Detection and Effective Removal of Organic Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6431-8	9.5	73

46	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. <i>Science Advances</i> , <b>2020</b> , 6, eaba6173	14.3	66
45	Mono-Elemental Properties of 2D Black Phosphorus Ensure Extended Charge Carrier Lifetimes under Oxidation: Time-Domain Ab Initio Analysis. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1083-1091	6.4	55
44	Gate-Induced Interfacial Superconductivity in 1T-SnSe. <i>Nano Letters</i> , <b>2018</b> , 18, 1410-1415	11.5	54
43	Topological transport and atomic tunnelling-clustering dynamics for aged Cu-doped Bi <sub>2</sub> Te <sub>3</sub> crystals. <i>Nature Communications</i> , <b>2014</b> , 5, 5022	17.4	50
42	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 7538-7545	11.5	50
41	Sensing Infrared Photons at Room Temperature: From Bulk Materials to Atomic Layers. <i>Small</i> , <b>2019</b> , 15, e1904396	11	48
40	Low-Temperature Eutectic Synthesis of PtTe <sub>2</sub> with Weak Antilocalization and Controlled Layer Thinning. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803746	15.6	47
39	A Noble Metal Dichalcogenide for High-Performance Field-Effect Transistors and Broadband Photodetectors. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907945	15.6	45
38	Suppression of Electron-Hole Recombination by Intrinsic Defects in 2D Monoelemental Material. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6151-6158	6.4	39
37	Strain-Sensitive Magnetization Reversal of a van der Waals Magnet. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004543	13	38
36	The preparation of Fe <sub>3</sub> O <sub>4</sub> cube-like nanoparticles via the ethanol reduction of Fe <sub>2</sub> O <sub>3</sub> and the study of its electromagnetic wave absorption. <i>Applied Surface Science</i> , <b>2015</b> , 359, 723-728	6.7	37
35	Integrated analytical techniques with high sensitivity for studying brain translocation and potential impairment induced by intranasally instilled copper nanoparticles. <i>Toxicology Letters</i> , <b>2014</b> , 226, 70-80	4.4	34
34	Networking retinomorph sensor with memristive crossbar for brain-inspired visual perception. <i>National Science Review</i> , <b>2021</b> , 8, nwa172	10.8	28
33	Controllable SERS performance for the flexible paper-like films of reduced graphene oxide. <i>Applied Surface Science</i> , <b>2017</b> , 419, 373-381	6.7	27
32	Hydrothermal growth of TiO <sub>2</sub> nanowire membranes sensitized with CdS quantum dots for the enhancement of photocatalytic performance. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 270	5	27
31	Optimized microstructure and impedance matching for improving the absorbing properties of core-shell C@Fe <sub>3</sub> C/Fe nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 780, 552-557	5.7	27
30	Gated tuned superconductivity and phonon softening in monolayer and bilayer MoS <sub>2</sub> . <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	26
29	Proximity-Induced Superconductivity with Subgap Anomaly in Type II Weyl Semi-Metal WTe. <i>Nano Letters</i> , <b>2018</b> , 18, 7962-7968	11.5	26

28	Broadband Bi <sub>2</sub> O <sub>2</sub> Se Photodetectors from Infrared to Terahertz. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009554	15.6	26
27	WO <sub>3</sub> and Ag nanoparticle co-sensitized TiO <sub>2</sub> nanowires: preparation and the enhancement of photocatalytic activity. <i>RSC Advances</i> , <b>2014</b> , 4, 23831-23837	3.7	25
26	Direct Evidence for Charge Compensation-Induced Large Magnetoresistance in Thin WTe. <i>Nano Letters</i> , <b>2019</b> , 19, 3969-3975	11.5	23
25	Tuning Electrical Conductance in Bilayer MoS through Defect-Mediated Interlayer Chemical Bonding. <i>ACS Nano</i> , <b>2020</b> , 14, 10265-10275	16.7	22
24	Characterization and photocatalytic activity of (ZnO/TiO <sub>2</sub> )/SBA-15 nanocomposites synthesized by two-solvent method. <i>Materials Research Bulletin</i> , <b>2014</b> , 56, 119-124	5.1	20
23	Damage-free and rapid transfer of CVD-grown two-dimensional transition metal dichalcogenides by dissolving sacrificial water-soluble layers. <i>Nanoscale</i> , <b>2017</b> , 9, 19124-19130	7.7	20
22	Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. <i>Nano Letters</i> , <b>2019</b> , 19, 3295-3304	11.5	19
21	Gate-tunable weak antilocalization in a few-layer InSe. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	18
20	Microwave absorption of NdFe magnetic powders tuned with impedance matching. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 449, 385-389	2.8	17
19	TiO <sub>2</sub> nanobelts photocatalysts decorated with Bi <sub>2</sub> WO <sub>6</sub> nanocrystals: Preparation and enhanced photocatalytic activity. <i>Materials Research Bulletin</i> , <b>2014</b> , 55, 121-125	5.1	17
18	Intrinsic p-type W-based transition metal dichalcogenide by substitutional Ta-doping. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 043502	3.4	16
17	Robust Impact-Ionization Field-Effect Transistor Based on Nanoscale Vertical Graphene/Black Phosphorus/Indium Selenide Heterostructures. <i>ACS Nano</i> , <b>2020</b> , 14, 434-441	16.7	15
16	Edge-Epitaxial Growth of InSe Nanowires toward High-Performance Photodetectors. <i>Small</i> , <b>2020</b> , 16, e1905902	11	14
15	Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 542-546	2.9	13
14	Mesoporous hollow Zn <sub>2</sub> SiO <sub>4</sub> :Mn <sup>2+</sup> nanospheres: The study of photoluminescence and adsorption properties. <i>Materials Research Bulletin</i> , <b>2015</b> , 61, 76-82	5.1	12
13	Two-solvent method synthesis of SnO <sub>2</sub> nanoparticles embedded in SBA-15: Gas-sensing and photocatalytic properties study. <i>Materials Research Bulletin</i> , <b>2014</b> , 50, 440-445	5.1	12
12	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in (BiIn)Se Nanodevices. <i>ACS Nano</i> , <b>2018</b> , 12, 1537-1543	16.7	11
11	Observation of Negative Terahertz Photoconductivity in Large Area Type-II Dirac Semimetal PtTe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2021</b> , 126, 227402	7.4	8

10	Fabrication of Co doped MoS <sub>2</sub> nanosheets with enlarged interlayer spacing as efficient and pH-Universal bifunctional electrocatalyst for overall water splitting. <i>Ceramics International</i> , <b>2021</b> , 47, 24501-24510	5.1	8
9	Gate-tunable ReS <sub>2</sub> /MoTe <sub>2</sub> heterojunction with high-performance photodetection. <i>Optical and Quantum Electronics</i> , <b>2019</b> , 51, 1	2.4	7
8	Emerging Single-Photon Detectors Based on Low-Dimensional Materials. <i>Small</i> , <b>2021</b> , e2103963	11	7
7	A method for the characterization of intra-pixel response of infrared sensor. <i>Optical and Quantum Electronics</i> , <b>2019</b> , 51, 1	2.4	6
6	A novel bubbling-assisted exfoliating method preparation of magnetically separable Fe <sub>2</sub> O <sub>3</sub> /graphene recyclable photocatalysts. <i>Functional Materials Letters</i> , <b>2014</b> , 07, 1450056	1.2	4
5	2 step of conductance fluctuations due to the broken time-reversal symmetry in bulk-insulating BiSbTeSe <sub>2</sub> devices. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 243106	3.4	3
4	Substitutionally Doped MoSe for High-Performance Electronics and Optoelectronics. <i>Small</i> , <b>2021</b> , 17, e2102855	11	3
3	Broadband Photodetectors: Broadband Bi <sub>2</sub> O <sub>2</sub> Se Photodetectors from Infrared to Terahertz (Adv. Funct. Mater. 14/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170093	15.6	3
2	A high-performance quantum well infrared photodetector based on semiconductor/metal periodic microstructure. <i>Optical and Quantum Electronics</i> , <b>2021</b> , 53, 1	2.4	2
1	Infrared Gesture Recognition System Based on Near-Sensor Computing. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 1-1	4.4	1