

Lili Zhang

List of Publications by Year in Descending Order

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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	Substitutionally Doped MoSe for High-Performance Electronics and Optoelectronics. <i>Small</i> , 2021 , 17, e2102855	11	3
62	Emerging Single-Photon Detectors Based on Low-Dimensional Materials. <i>Small</i> , 2021 , e2103963	11	7
61	Broadband Photodetectors: Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz (Adv. Funct. Mater. 14/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170093	15.6	3
60	Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021 , 4, 357-363	28.4	87
59	Observation of Negative Terahertz Photoconductivity in Large Area Type-II Dirac Semimetal PtTe ₂ . <i>Physical Review Letters</i> , 2021 , 126, 227402	7.4	8
58	Networking retinomorphic sensor with memristive crossbar for brain-inspired visual perception. <i>National Science Review</i> , 2021 , 8, nwaa172	10.8	28
57	Infrared Gesture Recognition System Based on Near-Sensor Computing. <i>IEEE Electron Device Letters</i> , 2021 , 1-1	4.4	1
56	A high-performance quantum well infrared photodetector based on semiconductor/metal periodic microstructure. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	2
55	Fabrication of Co doped MoS ₂ nanosheets with enlarged interlayer spacing as efficient and pH-Universal bifunctional electrocatalyst for overall water splitting. <i>Ceramics International</i> , 2021 , 47, 24501-24510	5.1	8
54	Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz. <i>Advanced Functional Materials</i> , 2021 , 31, 2009554	15.6	26
53	Reconfigurable logic and neuromorphic circuits based on electrically tunable two-dimensional homojunctions. <i>Nature Electronics</i> , 2020 , 3, 383-390	28.4	81
52	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. <i>Science Advances</i> , 2020 , 6, eaba6173	14.3	66
51	Tuning Electrical Conductance in Bilayer MoS through Defect-Mediated Interlayer Chemical Bonding. <i>ACS Nano</i> , 2020 , 14, 10265-10275	16.7	22
50	Van der Waals Heterostructures for High-Performance Device Applications: Challenges and Opportunities. <i>Advanced Materials</i> , 2020 , 32, e1903800	24	109
49	A Noble Metal Dichalcogenide for High-Performance Field-Effect Transistors and Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2020 , 30, 1907945	15.6	45
48	Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 542-546	2.9	13
47	Edge-Epitaxial Growth of InSe Nanowires toward High-Performance Photodetectors. <i>Small</i> , 2020 , 16, e1905902	11	14

46	Robust Impact-Ionization Field-Effect Transistor Based on Nanoscale Vertical Graphene/Black Phosphorus/Indium Selenide Heterostructures. <i>ACS Nano</i> , 2020 , 14, 434-441	16.7	15
45	Strain-Sensitive Magnetization Reversal of a van der Waals Magnet. <i>Advanced Materials</i> , 2020 , 32, e2004523	13	38
44	Suppression of Electron-Hole Recombination by Intrinsic Defects in 2D Monoelemental Material. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6151-6158	6.4	39
43	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 217-222	28.7	99
42	Direct Evidence for Charge Compensation-Induced Large Magnetoresistance in Thin WTe. <i>Nano Letters</i> , 2019 , 19, 3969-3975	11.5	23
41	A method for the characterization of intra-pixel response of infrared sensor. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	6
40	Gate-tunable ReS ₂ /MoTe ₂ heterojunction with high-performance photodetection. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	7
39	Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. <i>Nano Letters</i> , 2019 , 19, 3295-3304	11.5	19
38	Ab initio nonadiabatic molecular dynamics investigations on the excited carriers in condensed matter systems. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019 , 9, e1411	7.9	80
37	Sensing Infrared Photons at Room Temperature: From Bulk Materials to Atomic Layers. <i>Small</i> , 2019 , 15, e1904396	11	48
36	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> , 2019 , 10, 1083-1094	6.4	55
35	Optimized microstructure and impedance matching for improving the absorbing properties of core-shell C@Fe ₃ C/Fe nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019 , 780, 552-557	5.7	27
34	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , 2018 , 1, 130-136	28.4	348
33	Gate-Induced Interfacial Superconductivity in 1T-SnSe. <i>Nano Letters</i> , 2018 , 18, 1410-1415	11.5	54
32	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in (BiIn)Se Nanodevices. <i>ACS Nano</i> , 2018 , 12, 1537-1543	16.7	11
31	Microwave absorption of NdFe magnetic powders tuned with impedance matching. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 449, 385-389	2.8	17
30	Low-Temperature Eutectic Synthesis of PtTe ₂ with Weak Antilocalization and Controlled Layer Thinning. <i>Advanced Functional Materials</i> , 2018 , 28, 1803746	15.6	47
29	Negative Photoconductance in van der Waals Heterostructure-Based Floating Gate Phototransistor. <i>ACS Nano</i> , 2018 , 12, 9513-9520	16.7	75

28	2 step of conductance fluctuations due to the broken time-reversal symmetry in bulk-insulating BiSbTeSe ₂ devices. <i>Applied Physics Letters</i> , 2018 , 112, 243106	3.4	3
27	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. <i>Nano Letters</i> , 2018 , 18, 7538-7545	11.5	50
26	Proximity-Induced Superconductivity with Subgap Anomaly in Type II Weyl Semi-Metal WTe. <i>Nano Letters</i> , 2018 , 18, 7962-7968	11.5	26
25	Gate-tunable weak antilocalization in a few-layer InSe. <i>Physical Review B</i> , 2018 , 98,	3.3	18
24	Controllable SERS performance for the flexible paper-like films of reduced graphene oxide. <i>Applied Surface Science</i> , 2017 , 419, 373-381	6.7	27
23	Gated tuned superconductivity and phonon softening in monolayer and bilayer MoS ₂ . <i>Npj Quantum Materials</i> , 2017 , 2,	5	26
22	Intrinsic p-type W-based transition metal dichalcogenide by substitutional Ta-doping. <i>Applied Physics Letters</i> , 2017 , 111, 043502	3.4	16
21	Van der Waals epitaxial growth and optoelectronics of large-scale WSe/SnS vertical bilayer p-n junctions. <i>Nature Communications</i> , 2017 , 8, 1906	17.4	258
20	Damage-free and rapid transfer of CVD-grown two-dimensional transition metal dichalcogenides by dissolving sacrificial water-soluble layers. <i>Nanoscale</i> , 2017 , 9, 19124-19130	7.7	20
19	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017 , 3, e1700589	14.3	269
18	Gate-tunable negative longitudinal magnetoresistance in the predicted type-II Weyl semimetal WTe. <i>Nature Communications</i> , 2016 , 7, 13142	17.4	166
17	High Responsivity Phototransistors Based on Few-Layer ReS ₂ for Weak Signal Detection. <i>Advanced Functional Materials</i> , 2016 , 26, 1938-1944	15.6	217
16	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. <i>Nano Letters</i> , 2016 , 16, 2254-9	11.5	248
15	Rational Design of γ -Fe ₂ O ₃ /Reduced Graphene Oxide Composites: Rapid Detection and Effective Removal of Organic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6431-8	9.5	73
14	Facile synthesis of iron oxides/reduced graphene oxide composites: application for electromagnetic wave absorption at high temperature. <i>Scientific Reports</i> , 2015 , 5, 9298	4.9	73
13	Integrated digital inverters based on two-dimensional anisotropic ReS ₂ field-effect transistors. <i>Nature Communications</i> , 2015 , 6, 6991	17.4	417
12	The preparation of Fe ₃ O ₄ cube-like nanoparticles via the ethanol reduction of γ -Fe ₂ O ₃ and the study of its electromagnetic wave absorption. <i>Applied Surface Science</i> , 2015 , 359, 723-728	6.7	37
11	Mesoporous hollow Zn ₂ SiO ₄ :Mn ²⁺ nanospheres: The study of photoluminescence and adsorption properties. <i>Materials Research Bulletin</i> , 2015 , 61, 76-82	5.1	12

10	Integrated analytical techniques with high sensitivity for studying brain translocation and potential impairment induced by intranasally instilled copper nanoparticles. <i>Toxicology Letters</i> , 2014 , 226, 70-80	4.4	34
9	Topological transport and atomic tunnelling-clustering dynamics for aged Cu-doped Bi ₂ Te ₃ crystals. <i>Nature Communications</i> , 2014 , 5, 5022	17.4	50
8	WO ₃ and Ag nanoparticle co-sensitized TiO ₂ nanowires: preparation and the enhancement of photocatalytic activity. <i>RSC Advances</i> , 2014 , 4, 23831-23837	3.7	25
7	Hydrothermal growth of TiO ₂ nanowire membranes sensitized with CdS quantum dots for the enhancement of photocatalytic performance. <i>Nanoscale Research Letters</i> , 2014 , 9, 270	5	27
6	Characterization and photocatalytic activity of (ZnO/TiO ₂)/SBA-15 nanocomposites synthesized by two-solvent method. <i>Materials Research Bulletin</i> , 2014 , 56, 119-124	5.1	20
5	TiO ₂ nanobelts photocatalysts decorated with Bi ₂ WO ₆ nanocrystals: Preparation and enhanced photocatalytic activity. <i>Materials Research Bulletin</i> , 2014 , 55, 121-125	5.1	17
4	A novel bubbling-assisted exfoliating method preparation of magnetically separable Fe ₂ O ₃ /graphene recyclable photocatalysts. <i>Functional Materials Letters</i> , 2014 , 07, 1450056	1.2	4
3	Two-solvent method synthesis of SnO ₂ nanoparticles embedded in SBA-15: Gas-sensing and photocatalytic properties study. <i>Materials Research Bulletin</i> , 2014 , 50, 440-445	5.1	12
2	Hopping transport through defect-induced localized states in molybdenum disulphide. <i>Nature Communications</i> , 2013 , 4, 2642	17.4	740
1	Superior thermal conductivity of single-layer graphene. <i>Nano Letters</i> , 2008 , 8, 902-7	11.5	9908