

Lili Zhang

List of Publications by Year in descending order

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papers

18,665
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109137

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docs citations

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times ranked

24203
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Single-Photon Detectors Based on Low-Dimensional Materials. <i>Small</i> , 2022, 18, e2103963.	5.2	23
2	Ultrafast photocarrier and coherent phonon dynamics in type-II Dirac semimetal PtTe ₂ thin films probed by optical spectroscopy. <i>Photonics Research</i> , 2022, 10, 653.	3.4	12
3	Nonvolatile van der Waals Heterostructure Phototransistor for Encrypted Optoelectronic Logic Circuit. <i>ACS Nano</i> , 2022, 16, 4528-4535.	7.3	34
4	Emerging Low-Dimensional Heterostructure Devices for Neuromorphic Computing. <i>Small Structures</i> , 2022, 3, .	6.9	10
5	Networking retinomorphic sensor with memristive crossbar for brain-inspired visual perception. <i>National Science Review</i> , 2021, 8, nwaa172.	4.6	77
6	Infrared Gesture Recognition System Based on Near-Sensor Computing. <i>IEEE Electron Device Letters</i> , 2021, 42, 1053-1056.	2.2	8
7	A high-performance quantum well infrared photodetector based on semiconductor-metal periodic microstructure. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	8
8	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.	7.8	3
9	Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021, 4, 357-363.	13.1	292
10	Observation of Negative Terahertz Photoconductivity in Large Area Type-II Dirac Semimetal PtTe_2 . <i>Physical Review Letters</i> , 2021, 126, 227402.	2.9	35
11	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.	2.3	31
12	Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz. <i>Advanced Functional Materials</i> , 2021, 31, 2009554.	7.8	65
13	Substitutionally Doped MoSe ₂ for High-Performance Electronics and Optoelectronics. <i>Small</i> , 2021, 17, e2102855.	5.2	24
14	Van der Waals Heterostructures for High-Performance Device Applications: Challenges and Opportunities. <i>Advanced Materials</i> , 2020, 32, e1903800.	11.1	304
15	A Noble Metal Dichalcogenide for High-Performance Field-Effect Transistors and Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2020, 30, 1907945.	7.8	72
16	Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 542-546.	1.6	19
17	Edge-Epitaxial Growth of InSe Nanowires toward High-Performance Photodetectors. <i>Small</i> , 2020, 16, e1905902.	5.2	22
18	Robust Impact-Ionization Field-Effect Transistor Based on Nanoscale Vertical Graphene/Black Phosphorus/Indium Selenide Heterostructures. <i>ACS Nano</i> , 2020, 14, 434-441.	7.3	32

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19	Strain-Sensitive Magnetization Reversal of a van der Waals Magnet. <i>Advanced Materials</i> , 2020, 32, e2004533.	11.1	119
20	Reconfigurable logic and neuromorphic circuits based on electrically tunable two-dimensional homojunctions. <i>Nature Electronics</i> , 2020, 3, 383-390.	13.1	191
21	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. <i>Science Advances</i> , 2020, 6, eaba6173.	4.7	202
22	Tuning Electrical Conductance in Bilayer MoS ₂ through Defect-Mediated Interlayer Chemical Bonding. <i>ACS Nano</i> , 2020, 14, 10265-10275.	7.3	40
23	Sensing Infrared Photons at Room Temperature: From Bulk Materials to Atomic Layers. <i>Small</i> , 2019, 15, e1904396.	5.2	83
24	Suppression of Electron-Hole Recombination by Intrinsic Defects in 2D Monoelemental Material. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6151-6158.	2.1	62
25	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. <i>Nature Nanotechnology</i> , 2019, 14, 217-222.	15.6	153
26	Direct Evidence for Charge Compensation-Induced Large Magnetoresistance in Thin WTe ₂ . <i>Nano Letters</i> , 2019, 19, 3969-3975.	4.5	37
27	A method for the characterization of intra-pixel response of infrared sensor. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	8
28	Gate-tunable ReS ₂ /MoTe ₂ heterojunction with high-performance photodetection. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	15
29	Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. <i>Nano Letters</i> , 2019, 19, 3295-3304.	4.5	28
30	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.	6.2	194
31	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, 1083-1091.	2.1	74
32	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.	2.8	41
33	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , 2018, 1, 130-136.	13.1	539
34	Gate-Induced Interfacial Superconductivity in 1T-SnSe ₂ . <i>Nano Letters</i> , 2018, 18, 1410-1415.	4.5	81
35	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in (Bi _{1-x} In _x) ₂ Se ₃ Nanodevices. <i>ACS Nano</i> , 2018, 12, 1537-1543.	7.3	13
36	Microwave absorption of NdFe magnetic powders tuned with impedance matching. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 385-389.	1.0	22

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37	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. <i>Nano Letters</i> , 2018, 18, 7538-7545.	4.5	72
38	Proximity-Induced Superconductivity with Subgap Anomaly in Type II Weyl Semi-Metal WTe_2 . <i>Nano Letters</i> , 2018, 18, 7962-7968.	4.5	48
39	Gate-tunable weak antilocalization in a few-layer InSe. <i>Physical Review B</i> , 2018, 98, .	1.1	24
40	Low-temperature Eutectic Synthesis of $PtTe_2$ with Weak Antilocalization and Controlled Layer Thinning. <i>Advanced Functional Materials</i> , 2018, 28, 1803746.	7.8	70
41	Negative Photoconductance in van der Waals Heterostructure-Based Floating Gate Phototransistor. <i>ACS Nano</i> , 2018, 12, 9513-9520.	7.3	124
42	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, .	1.5	3
43	Controllable SERS performance for the flexible paper-like films of reduced graphene oxide. <i>Applied Surface Science</i> , 2017, 419, 373-381.	3.1	40
44	Gated tuned superconductivity and phonon softening in monolayer and bilayer MoS_2 . <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	33
45	Intrinsic p-type W-based transition metal dichalcogenide by substitutional Ta-doping. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	26
46	Van der Waals epitaxial growth and optoelectronics of large-scale WSe_2/SnS_2 vertical bilayer p-n junctions. <i>Nature Communications</i> , 2017, 8, 1906.	5.8	369
47	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.	2.8	27
48	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017, 3, e1700589.	4.7	419
49	Gate-tunable negative longitudinal magnetoresistance in the predicted type-II Weyl semimetal WTe_2 . <i>Nature Communications</i> , 2016, 7, 13142.	5.8	215
50	High Responsivity Phototransistors Based on Few-layer ReS_2 for Weak Signal Detection. <i>Advanced Functional Materials</i> , 2016, 26, 1938-1944.	7.8	270
51	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. <i>Nano Letters</i> , 2016, 16, 2254-2259.	4.5	322
52	Rational Design of $\gamma\text{-Fe}_2\text{O}_3$ /Reduced Graphene Oxide Composites: Rapid Detection and Effective Removal of Organic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6431-6438.	4.0	91
53	Facile synthesis of iron oxides/reduced graphene oxide composites: application for electromagnetic wave absorption at high temperature. <i>Scientific Reports</i> , 2015, 5, 9298.	1.6	88
54	Integrated digital inverters based on two-dimensional anisotropic ReS_2 field-effect transistors. <i>Nature Communications</i> , 2015, 6, 6991.	5.8	505

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55	The preparation of Fe ₃ O ₄ cube-like nanoparticles via the ethanol reduction of $\hat{I}\pm$ -Fe ₂ O ₃ and the study of its electromagnetic wave absorption. Applied Surface Science, 2015, 359, 723-728.	3.1	46
56	Mesoporous hollow Zn ₂ SiO ₄ :Mn ²⁺ nanospheres: The study of photoluminescence and adsorption properties. Materials Research Bulletin, 2015, 61, 76-82.	2.7	13
57	Preparation and Enhanced Photocatalytic Activity of TiO ₂ Nanobelts Decorated with Silver Nanoparticles. Asian Journal of Chemistry, 2014, 26, 1341-1345.	0.1	0
58	A novel bubbling-assisted exfoliating method preparation of magnetically separable \hat{I}^3 -Fe ₂ O ₃ /graphene recyclable photocatalysts. Functional Materials Letters, 2014, 07, 1450056.	0.7	4
59	Two-solvent method synthesis of SnO ₂ nanoparticles embedded in SBA-15: Gas-sensing and photocatalytic properties study. Materials Research Bulletin, 2014, 50, 440-445.	2.7	12
60	Integrated analytical techniques with high sensitivity for studying brain translocation and potential impairment induced by intranasally instilled copper nanoparticles. Toxicology Letters, 2014, 226, 70-80.	0.4	46
61	Topological transport and atomic tunnelling clustering dynamics for aged Cu-doped Bi ₂ Te ₃ crystals. Nature Communications, 2014, 5, 5022.	5.8	60
62	WO ₃ and Ag nanoparticle co-sensitized TiO ₂ nanowires: preparation and the enhancement of photocatalytic activity. RSC Advances, 2014, 4, 23831-23837.	1.7	30
63	Hydrothermal growth of TiO ₂ nanowire membranes sensitized with CdS quantum dots for the enhancement of photocatalytic performance. Nanoscale Research Letters, 2014, 9, 270.	3.1	31
64	Characterization and photocatalytic activity of (ZnO/CuO)/SBA-15 nanocomposites synthesized by two-solvent method. Materials Research Bulletin, 2014, 56, 119-124.	2.7	21
65	TiO ₂ nanobelts photocatalysts decorated with Bi ₂ WO ₆ nanocrystals: Preparation and enhanced photocatalytic activity. Materials Research Bulletin, 2014, 55, 121-125.	2.7	20
66	Hopping transport through defect-induced localized states in molybdenum disulphide. Nature Communications, 2013, 4, 2642.	5.8	935
67	Superior Thermal Conductivity of Single-Layer Graphene. Nano Letters, 2008, 8, 902-907.	4.5	11,726