

Dong Li

List of Publications by Year in descending order

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62
papers

2,770
citations

218381

26
h-index

182168

51
g-index

62
all docs

62
docs citations

62
times ranked

3845
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printable Graphene Composite. <i>Scientific Reports</i> , 2015, 5, 11181.	1.6	337
2	Two-dimensional non-volatile programmable p-n junctions. <i>Nature Nanotechnology</i> , 2017, 12, 901-906.	15.6	278
3	Self-Powered Broad-band Photodetectors Based on Vertically Stacked WSe ₂ /Bi ₂ Te ₃ p-n Heterojunctions. <i>ACS Nano</i> , 2019, 13, 13573-13580.	7.3	165
4	Sub-thick Electrodes with Enhanced Transport Kinetics via In Situ Epitaxial Heterogeneous Interfaces for High Area Capacity Lithium Ion Batteries. <i>Small</i> , 2021, 17, e2100778.	5.2	141
5	Band Alignment Engineering in Two-Dimensional Lateral Heterostructures. <i>Journal of the American Chemical Society</i> , 2018, 140, 11193-11197.	6.6	136
6	Nonvolatile Floating-Gate Memories Based on Stacked Black Phosphorus-Boron Nitride-MoS ₂ Heterostructures. <i>Advanced Functional Materials</i> , 2015, 25, 7360-7365.	7.8	129
7	Van der Waals epitaxial growth of vertically stacked Sb ₂ Te ₃ /MoS ₂ p-n heterojunctions for high performance optoelectronics. <i>Nano Energy</i> , 2019, 59, 66-74.	8.2	112
8	Highly stable lead-free Cs ₃ Bi ₂ I ₉ perovskite nanoplates for photodetection applications. <i>Nano Research</i> , 2019, 12, 1894-1899.	5.8	96
9	Floating-Gate Manipulated Graphene-Black Phosphorus Heterojunction for Nonvolatile Ambipolar Schottky Junction Memories, Memory Inverter Circuits, and Logic Rectifiers. <i>Nano Letters</i> , 2017, 17, 6353-6359.	4.5	87
10	Gate-Controlled BP-WSe ₂ Heterojunction Diode for Logic Rectifiers and Logic Optoelectronics. <i>Small</i> , 2017, 13, 1603726.	5.2	86
11	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , 2019, 31, e1901351.	11.1	79
12	Liquid-Metal-Assisted Growth of Vertical GaSe/MoS ₂ p-n Heterojunctions for Sensitive Self-Driven Photodetectors. <i>ACS Nano</i> , 2021, 15, 10039-10047.	7.3	73
13	WO ₃ -WS ₂ Vertical Bilayer Heterostructures with High Photoluminescence Quantum Yield. <i>Journal of the American Chemical Society</i> , 2019, 141, 11754-11758.	6.6	69
14	Ultrahigh-Performance Optoelectronics Demonstrated in Ultrathin Perovskite-Based Vertical Semiconductor Heterostructures. <i>ACS Nano</i> , 2019, 13, 7996-8003.	7.3	64
15	High-performance optoelectronic devices based on van der Waals vertical MoS ₂ /MoSe ₂ heterostructures. <i>Nano Research</i> , 2020, 13, 1053-1059.	5.8	63
16	Facile Synthesis of Na-Doped MnO ₂ Nanosheets on Carbon Nanotube Fibers for Ultrahigh-Energy-Density All-Solid-State Wearable Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37233-37241.	4.0	60
17	Tandem gasochromic-Pd-WO ₃ /graphene/Si device for room-temperature high-performance optoelectronic hydrogen sensors. <i>Carbon</i> , 2018, 130, 281-287.	5.4	56
18	Nonvolatile MoTe ₂ p-n Diodes for Optoelectronic Logics. <i>ACS Nano</i> , 2019, 13, 7216-7222.	7.3	52

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19	High-responsivity two-dimensional p-PbI ₂ /n-WS ₂ vertical heterostructure photodetectors enhanced by photogating effect. <i>Materials Horizons</i> , 2019, 6, 1474-1480.	6.4	51
20	Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. <i>Nano Letters</i> , 2019, 19, 7217-7225.	4.5	42
21	Epitaxial synthesis of ultrathin In ₂ Se ₃ /MoS ₂ heterostructures with high visible/near-infrared photoresponse. <i>Nanoscale</i> , 2020, 12, 6480-6488.	2.8	42
22	Double-Gate MoS ₂ Field-Effect Transistors with Full-Range Tunable Threshold Voltage for Multifunctional Logic Circuits. <i>Advanced Materials</i> , 2021, 33, e2101036.	11.1	42
23	Recent Advances in Two-Dimensional Heterostructures: From Band Alignment Engineering to Advanced Optoelectronic Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2001174.	2.6	34
24	Dual-channel type tunable field-effect transistors based on vertical bilayer WS ₂ (1 st layer)/Se ₂ /SnS ₂ heterostructures. <i>Information Materials</i> , 2020, 2, 752-760.	2.5	32
25	Tunable bandgap in few-layer black phosphorus by electrical field. <i>2D Materials</i> , 2017, 4, 031009.	2.0	30
26	Light-triggered two-dimensional lateral homogeneous p-n diodes for opto-electrical interconnection circuits. <i>Science Bulletin</i> , 2020, 65, 293-299.	4.3	29
27	Direct Growth of Nanocrystalline Graphene/Graphite Transparent Electrodes on Si/SiO ₂ for Metal-Free Schottky Junction Photodetectors. <i>Advanced Functional Materials</i> , 2014, 24, 835-840.	7.8	28
28	Growth of CdSe/MoS ₂ vertical heterostructures for fast visible-wavelength photodetectors. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152309.	2.8	27
29	Floating-gate controlled programmable non-volatile black phosphorus PNP junction memory. <i>Nanoscale</i> , 2018, 10, 3148-3152.	2.8	22
30	Efficient control of emission and carrier polarity in WS ₂ monolayer by indium doping. <i>Science China Materials</i> , 2021, 64, 1449-1456.	3.5	21
31	Plasmonically engineered light-matter interactions in Au-nanoparticle/MoS ₂ heterostructures for artificial optoelectronic synapse. <i>Nano Research</i> , 2022, 15, 3539-3547.	5.8	20
32	Light-triggered interfacial charge transfer and enhanced photodetection in CdSe/ZnS quantum dots/MoS ₂ ; mixed-dimensional phototransistors. <i>Opto-Electronic Advances</i> , 2021, 4, 210017-210017.	6.4	19
33	Vapor growth of CdS nanowires/WS ₂ nanosheet heterostructures with sensitive photodetections. <i>Nanotechnology</i> , 2019, 30, 345603.	1.3	18
34	Magnetic Doping Induced Strong Circularly Polarized Light Emission and Detection in 2D Layered Halide Perovskite. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17
35	Photo-Induced Doping in Graphene/Silicon Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1061-1066.	1.5	16
36	Tight-binding model for electronic structure of hexagonal boron phosphide monolayer and bilayer. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 285501.	0.7	14

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37	Direct Growth of Nanographene on Silicon with Thin Oxide Layer for High-Performance Nanographene-Oxide-Silicon Diodes. <i>Advanced Functional Materials</i> , 2014, 24, 7613-7618.	7.8	13
38	Trion-Induced Distinct Transient Behavior and Stokes Shift in WS ₂ Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3763-3772.	2.1	13
39	Record high photoresponse observed in CdS-black phosphorous van der Waals heterojunction photodiode. <i>Science China Materials</i> , 2020, 63, 1570-1578.	3.5	13
40	Contact and injection engineering for low SS reconfigurable FETs and high gain complementary inverters. <i>Science Bulletin</i> , 2020, 65, 2007-2013.	4.3	13
41	Electrically tunable large magnetoresistance in graphene/silicon Schottky junctions. <i>Carbon</i> , 2017, 123, 106-111.	5.4	12
42	Direct growth of nanocrystalline graphene/graphite all carbon transparent electrode for graphene glass and photodetectors. <i>Carbon</i> , 2017, 111, 1-7.	5.4	12
43	Controlled growth of SnSe/MoS ₂ vertical p-n heterojunction for optoelectronic applications. <i>Nano Futures</i> , 2021, 5, 015002.	1.0	12
44	Stress- and electric-field-induced band gap tuning in hexagonal boron phosphide layers. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 465502.	0.7	10
45	Magnetic-brightening and control of dark exciton in CsPbBr ₃ perovskite. <i>Science China Materials</i> , 2020, 63, 1503-1509.	3.5	8
46	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. <i>Nanoscale</i> , 2021, 13, 9177-9184.	2.8	8
47	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15813-15820.	4.0	7
48	Study on the graphene/silicon Schottky diodes by transferring graphene transparent electrodes on silicon. <i>Thin Solid Films</i> , 2015, 592, 281-286.	0.8	6
49	Revealing the many-body interactions and valley-polarization behavior in Re-doped MoS ₂ monolayers. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	6
50	Strain-controlled synthesis of ultrathin hexagonal GaTe/MoS ₂ heterostructure for sensitive photodetection. <i>IScience</i> , 2021, 24, 103031.	1.9	6
51	Manipulating Picosecond Photoresponse in van der Waals Heterostructure Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	6
52	Morphology Deformation and Giant Electronic Band Modulation in Long-Wavelength WS ₂ Moiré Superlattices. <i>Nano Letters</i> , 2022, 22, 5997-6003.	4.5	6
53	Bottom-up fabrication of semiconducting 2D coordination nanosheets for versatile bioimaging and photodetecting applications. <i>Materials Advances</i> , 2021, 2, 5189-5194.	2.6	5
54	Strong interfacial coupling in vertical WSe ₂ /WS ₂ heterostructure for high performance photodetection. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	5

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55	Thermal annealing and air exposing effect on the graphene/silicon Schottky junctions. Solid State Communications, 2015, 201, 115-119.	0.9	4
56	Novel p-n junctions based on ambipolar two-dimensional crystals. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 217302.	0.2	4
57	Facile fabrication of a single-particle platform with high throughput via substrate surface potential regulated large-spacing nanoparticle assembly. Nano Research, 0, , 1.	5.8	4
58	Solution-processed anchoring zinc oxide quantum dots on covalently modified graphene oxide. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	3
59	Picosecond electrical response in graphene/MoTe ₂ heterojunction with high responsivity in the near infrared region. Fundamental Research, 2022, 2, 405-411.	1.6	3
60	Gallium doping-assisted giant photoluminescence enhancement of monolayer MoS ₂ grown by chemical vapor deposition. Applied Physics Letters, 2022, 120, 221902.	1.5	2
61	Band Alignment Engineering by Twist Angle and Composition Modulation for Heterobilayer. Small, 2022, 18, .	5.2	2
62	Controlled Synthesis of Ultrathin Hexagonal-GaTe on MoS ₂ Via Strain Engineering. SSRN Electronic Journal, 0, , .	0.4	0