Feng Wang

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65 66 38 12,732 h-index g-index citations papers 66 6.12 14,582 14.5 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
65	Emerging photoluminescence in monolayer MoS2. <i>Nano Letters</i> , 2010 , 10, 1271-5	11.5	6474
64	Ultrafast charge transfer in atomically thin MoSI/MSI heterostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 682-6	28.7	1432
63	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. <i>Nature Materials</i> , 2014 , 13, 1091-5	27	1150
62	Tunable GaTe-MoS2 van der Waals p-n Junctions with Novel Optoelectronic Performance. <i>Nano Letters</i> , 2015 , 15, 7558-66	11.5	303
61	High-Performance Ultraviolet Photodetector Based on a Few-Layered 2D NiPS3 Nanosheet. <i>Advanced Functional Materials</i> , 2017 , 27, 1701342	15.6	170
60	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. <i>Chemical Society Reviews</i> , 2018 , 47, 6296-6341	58.5	145
59	Ultrasensitive Phototransistors Based on Few-Layered HfS2. Advanced Materials, 2015, 27, 7881-7	24	144
58	Recent Progress in CVD Growth of 2D Transition Metal Dichalcogenides and Related Heterostructures. <i>Advanced Materials</i> , 2019 , 31, e1901694	24	131
57	Sub-10 nm Nanopattern Architecture for 2D Material Field-Effect Transistors. <i>Nano Letters</i> , 2017 , 17, 1065-1070	11.5	126
56	Two-Dimensional Non-Layered Materials: Synthesis, Properties and Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1603254	15.6	124
55	High-performance, multifunctional devices based on asymmetric van der Waals heterostructures. <i>Nature Electronics</i> , 2018 , 1, 356-361	28.4	123
54	van der Waals epitaxial ultrathin two-dimensional nonlayered semiconductor for highly efficient flexible optoelectronic devices. <i>Nano Letters</i> , 2015 , 15, 1183-9	11.5	116
53	Nonvolatile infrared memory in MoS/PbS van der Waals heterostructures. <i>Science Advances</i> , 2018 , 4, eaap7916	14.3	106
52	Synthesis, properties and applications of 2D layered MX (M = Ga, In; X = S, Se, Te) materials. <i>Nanoscale</i> , 2016 , 8, 16802-16818	7.7	100
51	Highly sensitive and fast phototransistor based on large size CVD-grown SnS2 nanosheets. <i>Nanoscale</i> , 2015 , 7, 14093-9	7.7	99
50	Enhanced Electrochemical H2 Evolution by Few-Layered Metallic WS2(1½)Se2x Nanoribbons. <i>Advanced Functional Materials</i> , 2015 , 25, 6077-6083	15.6	98
49	Designing the shape evolution of SnSe2 nanosheets and their optoelectronic properties. <i>Nanoscale</i> , 2015 , 7, 17375-80	7.7	96

(2016-2017)

48	Ultrathin Single-Crystalline CdTe Nanosheets Realized via Van der Waals Epitaxy. <i>Advanced Materials</i> , 2017 , 29, 1703122	24	90
47	Strain-Modulated Bandgap and Piezo-Resistive Effect in Black Phosphorus Field-Effect Transistors. <i>Nano Letters</i> , 2017 , 17, 6097-6103	11.5	88
46	Synthesis, properties and applications of 2D non-graphene materials. <i>Nanotechnology</i> , 2015 , 26, 29200	13.4	82
45	Integrated High-Performance Infrared Phototransistor Arrays Composed of Nonlayered PbS-MoS Heterostructures with Edge Contacts. <i>Nano Letters</i> , 2016 , 16, 6437-6444	11.5	79
44	Ultrathin Magnetic 2D Single-Crystal CrSe. Advanced Materials, 2019, 31, e1900056	24	78
43	Ultrahigh sensitive MoTe2 phototransistors driven by carrier tunneling. <i>Applied Physics Letters</i> , 2016 , 108, 043503	3.4	78
42	Epitaxial 2D PbS Nanoplates Arrays with Highly Efficient Infrared Response. <i>Advanced Materials</i> , 2016 , 28, 8051-8057	24	77
41	Van der Waals Epitaxial Growth of Atomic Layered HfS Crystals for Ultrasensitive Near-Infrared Phototransistors. <i>Advanced Materials</i> , 2017 , 29, 1700439	24	73
40	Edge-Epitaxial Growth of 2D NbS -WS Lateral Metal-Semiconductor Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1803665	24	72
39	Two-dimensional metal phosphorus trisulfide nanosheet with solar hydrogen-evolving activity. <i>Nano Energy</i> , 2017 , 40, 673-680	17.1	71
38	Configuration-Dependent Electrically Tunable Van der Waals Heterostructures Based on MoTe2/MoS2. <i>Advanced Functional Materials</i> , 2016 , 26, 5499-5506	15.6	68
37	Sub-millimeter-Scale Growth of One-Unit-Cell-Thick Ferrimagnetic CrS Nanosheets. <i>Nano Letters</i> , 2019 , 19, 2154-2161	11.5	67
36	Infrared-Sensitive Memory Based on Direct-Grown MoS -Upconversion-Nanoparticle Heterostructure. <i>Advanced Materials</i> , 2018 , 30, e1803563	24	57
35	Progress on Electronic and Optoelectronic Devices of 2D Layered Semiconducting Materials. <i>Small</i> , 2017 , 13, 1604298	11	55
34	WSe2/GeSe heterojunction photodiode with giant gate tunability. <i>Nano Energy</i> , 2018 , 49, 103-108	17.1	49
33	Ultrafast and ultrasensitive phototransistors based on few-layered HfSe2. <i>Applied Physics Letters</i> , 2016 , 109, 213105	3.4	44
32	Toward High-Performance Top-Gate Ultrathin HfS2 Field-Effect Transistors by Interface Engineering. <i>Small</i> , 2016 , 12, 3106-11	11	42
31	High-Performance Phototransistor of Epitaxial PbS Nanoplate-Graphene Heterostructure with Edge Contact. <i>Advanced Materials</i> , 2016 , 28, 6497-503	24	40

30	Gate-Coupling-Enabled Robust Hysteresis for Nonvolatile Memory and Programmable Rectifier in Van der Waals Ferroelectric Heterojunctions. <i>Advanced Materials</i> , 2020 , 32, e1908040	24	39
29	Strong electrically tunable MoTe2/graphene van der Waals heterostructures for high-performance electronic and optoelectronic devices. <i>Applied Physics Letters</i> , 2016 , 109, 193111	3.4	39
28	Multifunctional tunneling devices based on graphene/h-BN/MoSe2 van der Waals heterostructures. <i>Applied Physics Letters</i> , 2017 , 110, 173507	3.4	38
27	Sulfur vacancy activated field effect transistors based on ReS2 nanosheets. <i>Nanoscale</i> , 2015 , 7, 15757-0	62 _{7.7}	36
26	Rational Design of Ultralarge Pb1-x Snx Te Nanoplates for Exploring Crystalline Symmetry-Protected Topological Transport. <i>Advanced Materials</i> , 2016 , 28, 617-23	24	35
25	Electrostatically tunable lateral MoTe2 p-n junction for use in high-performance optoelectronics. <i>Nanoscale</i> , 2016 , 8, 13245-50	7.7	34
24	BN-Enabled Epitaxy of Pb(1-x)Sn(x)Se Nanoplates on SiO\(\mathbb{D}\)Si for High-Performance Mid-Infrared Detection. <i>Small</i> , 2015 , 11, 5388-94	11	34
23	Multibit Optoelectronic Memory in Top-Floating-Gated van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2019 , 29, 1902890	15.6	33
22	Impact of Thickness on Contact Issues for Pinning Effect in Black Phosphorus Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1801398	15.6	32
21	Oriented Growth of Pb1- x Snx Te Nanowire Arrays for Integration of Flexible Infrared Detectors. <i>Advanced Materials</i> , 2016 , 28, 3596-601	24	31
20	Configuration-dependent anti-ambipolar van der Waals p-n heterostructures based on pentacene single crystal and MoS. <i>Nanoscale</i> , 2017 , 9, 7519-7525	7.7	28
19	Two-Dimensional Unipolar Memristors with Logic and Memory Functions. <i>Nano Letters</i> , 2020 , 20, 4144-	-415.3	27
18	Low-Dimensional Topological Crystalline Insulators. Small, 2015, 11, 4613-24	11	19
17	Ferroelectric-induced carrier modulation for ambipolar transition metal dichalcogenide transistors. <i>Applied Physics Letters</i> , 2017 , 110, 123106	3.4	17
16	Robust trap effect in transition metal dichalcogenides for advanced multifunctional devices. <i>Nature Communications</i> , 2019 , 10, 4133	17.4	16
15	Van der Waals Heterostructure Devices with Dynamically Controlled Conduction Polarity and Multifunctionality. <i>Advanced Functional Materials</i> , 2019 , 29, 1804897	15.6	16
14	Strongly coupled van der Waals heterostructures for high-performance infrared phototransistor. <i>Applied Physics Letters</i> , 2019 , 114, 103501	3.4	14
13	Uncovering the Conduction Behavior of van der Waals Ambipolar Semiconductors. <i>Advanced Materials</i> , 2019 , 31, e1805317	24	14

LIST OF PUBLICATIONS

Gapless van der Waals Heterostructures for Infrared Optoelectronic Devices. ACS Nano, 2019, 13, 14519±16452813

11	A unipolar nonvolatile resistive switching behavior in a layered transition metal oxide. <i>Nanoscale</i> , 2019 , 11, 20497-20506	7.7	12
10	Anti-Ambipolar Transport with Large Electrical Modulation in 2D Heterostructured Devices. <i>Advanced Materials</i> , 2019 , 31, e1901144	24	10
9	Short channel field-effect transistors from ultrathin GaTe nanosheets. <i>Applied Physics Letters</i> , 2015 , 107, 153507	3.4	8
8	Subthermionic field-effect transistors with sub-5[hm gate lengths based on van der Waals ferroelectric heterostructures. <i>Science Bulletin</i> , 2020 , 65, 1444-1450	10.6	8
7	Controlling Injection Barriers for Ambipolar 2D Semiconductors via Quasi-van der Waals Contacts. <i>Advanced Science</i> , 2019 , 6, 1801841	13.6	7
6	Recent progress on emergent two-dimensional magnets and heterostructures. <i>Nanotechnology</i> , 2021 , 32,	3.4	6
5	Van der Waals integration of 2D atomic crystals for advanced multifunctional devices. <i>Science Bulletin</i> , 2019 , 64, 1033-1035	10.6	4
4	Reconfigurable photovoltaic effect for optoelectronic artificial synapse based on ferroelectric p-n junction. <i>Nano Research</i> , 2021 , 14, 4328	10	4
3	Controlled synthesis and Raman study of a 2D antiferromagnetic P-type semiconductor: \(\frac{1}{2}\)MnSe. <i>Nanoscale</i> , 2021 , 13, 6953-6964	7:7	4
2	A Ferroelectric p II Heterostructure for Highly Enhanced Short-Circuit Current Density and Self-Powered Photodetection. <i>Advanced Electronic Materials</i> ,2101385	6.4	4
1	Growth, Raman Scattering Investigation and Photodetector Properties of 2D SnP Small, 2022, e21080	01 7 1	2