Lifeng Wang

List of Publications by Year
in descending order

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37	3,316	331670 21	345221 36
papers	citations	h-index	g-index

37	37	37	5115
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of Few-Layer GaSe Nanosheets for High Performance Photodetectors. ACS Nano, 2012, 6, 5988-5994.	14.6	788
2	Highly Responsive Ultrathin GaS Nanosheet Photodetectors on Rigid and Flexible Substrates. Nano Letters, 2013, 13, 1649-1654.	9.1	683
3	A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visualâ€Perception System. Advanced Materials, 2018, 30, e1803961.	21.0	292
4	Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Grapheneâ€Based Fieldâ€Effect Transistors. Advanced Materials, 2014, 26, 1559-1564.	21.0	209
5	Synthesis of two-dimensional Î²-Ga₂O₃nanosheets for high-performance solar blind photodetectors. Journal of Materials Chemistry C, 2014, 2, 3254-3259.	5.5	167
6	High Proton Conductivity Achieved by Encapsulation of Imidazole Molecules into Proton-Conducting MOF-808. ACS Applied Materials & Interfaces, 2019, 11, 9164-9171.	8.0	163
7	Colorimetric Sensor Based on Selfâ€Assembled Polydiacetylene/Grapheneâ€Stacked Composite Film for Vaporâ€Phase Volatile Organic Compounds. Advanced Functional Materials, 2013, 23, 6044-6050.	14.9	115
8	A Retinaâ€Like Dual Band Organic Photosensor Array for Filterâ€Free Nearâ€Infraredâ€toâ€Memory Operations. Advanced Materials, 2017, 29, 1701772.	21.0	95
9	Growth and Etching of Monolayer Hexagonal Boron Nitride. Advanced Materials, 2015, 27, 4858-4864.	21.0	93
10	Atomically Thin Hexagonal Boron Nitride and Its Heterostructures. Advanced Materials, 2021, 33, e2000769.	21.0	71
11	Governing Rule for Dynamic Formation of Grain Boundaries in Grown Graphene. ACS Nano, 2015, 9, 5792-5798.	14.6	66
12	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for Highâ€Performance 2D Field Effect Transistors. Advanced Materials, 2016, 28, 2062-2069.	21.0	65
13	High-performance and flexible photodetectors based on chemical vapor deposition grown two-dimensional In₂Se₃ nanosheets. Nanotechnology, 2018, 29, 445205.	2.6	54
14	Phase-Engineering-Driven Enhanced Electronic and Optoelectronic Performance of Multilayer In₂Se₃ Nanosheets. ACS Applied Materials & Interfaces, 2018, 10, 27584-27588.	8.0	51
15	Multilayer InSeâ€“Te van der Waals Heterostructures with an Ultrahigh Rectification Ratio and Ultrasensitive Photoresponse. ACS Applied Materials & Interfaces, 2020, 12, 37313-37319.	8.0	47
16	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. Materials Chemistry Frontiers, 2017, 1, 1836-1840.	5.9	34
17	Shape-tailorable high-energy asymmetric micro-supercapacitors based on plasma reduced and nitrogen-doped graphene oxide and MoO₂ nanoparticles. Journal of Materials Chemistry A, 2019, 7, 14328-14336.	10.3	34
18	Shape evolution of two dimensional hexagonal boron nitride single domains on Cu/Ni alloy and its applications in ultraviolet detection. Nanotechnology, 2019, 30, 245706.	2.6	31

#	Article	IF	Citations
19	Advanced 2Dâ€“2D heterostructures of transition metal dichalcogenides and nitrogen-rich nitrides for solar water generation. Nano Energy, 2022, 98, 107192.	16.0	30
20	Epitaxial Growth of hâ€BN on Templates of Various Dimensionalities in hâ€BNâ€“Graphene Material Systems. Advanced Materials, 2019, 31, e1805582.	21.0	28
21	Synthesis of High-Quality Multilayer Hexagonal Boron Nitride Films on Au Foils for Ultrahigh Rejection Ratio Solar-Blind Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 28351-28359.	8.0	27
22	2D Higherâ€Metal Nitride Nanosheets for Solar Steam Generation. Small, 2022, 18, .	10.0	21
23	Tailoring graphene layer-to-layer growth. Nanotechnology, 2017, 28, 265101.	2.6	18
24	Synthesis of Two-Dimensional Alloy Ga_{0.84}In_{0.16}Se Nanosheets for High-Performance Photodetector. ACS Applied Materials & Interfaces, 2018, 10, 43299-43304.	8.0	17
25	Ultrafast Growth of Thin Hexagonal and Pyramidal Molybdenum Nitride Crystals and Films. , 2019, 1, 383-388.		17
26	Interfacial Engineering of 3D Hollow Mo-Based Carbide/Nitride Nanostructures. ACS Applied Materials & Interfaces, 2021, 13, 50524-50530.	8.0	16
27	Low temperature growth of clean single layer hexagonal boron nitride flakes and film for graphene-based field-effect transistors. Science China Materials, 2019, 62, 1218-1225.	6.3	13
28	All Pseudocapacitive Nitrogen-Doped Reduced Graphene Oxide and Polyaniline Nanowire Network for High-Performance Flexible On-Chip Energy Storage. ACS Applied Energy Materials, 2020, 3, 6845-6852.	5.1	13
29	High-Performance Devices Based on InSeâ€“In_{1â€“x}Ga_xSe Van der Waals Heterojunctions. ACS Applied Materials & Interfaces, 2020, 12, 24978-24983.	8.0	11
30	Twoâ€dimensional Boron Nitride for Electronics and Energy Applications. Energy and Environmental Materials, 2022, 5, 10-44.	12.8	11
31	Photosensors: A Retinaâ€Like Dual Band Organic Photosensor Array for Filterâ€Free Nearâ€Infraredâ€toâ€Memory Operations (Adv. Mater. 32/2017). Advanced Materials, 2017, 29, .	21.0	8
32	Design and Preparation of a Superior Proton Conductor by Confining Tetraethylenepentamine in the Pores of ZIF-8 To Induce Further Adsorption of Water and Carbon Dioxide. Inorganic Chemistry, 2019, 58, 14693-14700.	4.0	7
33	Neuromorphic Devices: A Ferroelectric/Electrochemical Modulated Organic Synapse for Ultraflexible, Artificial Visual-Perception System (Adv. Mater. 46/2018). Advanced Materials, 2018, 30, 1870349.	21.0	6
34	Growth of wafer-scale grapheneâ€“hexagonal boron nitride vertical heterostructures with clear interfaces for obtaining atomically thin electrical analogs. Nanoscale, 2022, 14, 4204-4215.	5.6	6
35	Lighting Up AIEgen Emission in Solution by Grafting onto Colloidal Nanocrystal Surfaces. Journal of Physical Chemistry Letters, 2018, 9, 6334-6338.	4.6	5
36	Fieldâ€Effect Transistors: Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Grapheneâ€Based Fieldâ€Effect Transistors (Adv. Mater. 10/2014). Advanced Materials, 2014, 26, 1474-1474.	21.0	3

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37	2D Materials: Epitaxial Growth of hâ€ƁN on Templates of Various Dimensionalities in hâ€ƁNâ€“Graphene Material Systems (Adv. Mater. 12/2019). Advanced Materials, 2019, 31, 1970088.	21.0	1