Zhaoyang Lin

List of Publications by Year
in descending order

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Version: 2024-02-01

45 papers	9,887 citations	117453 34 h-index	205818 48 g-index
49 all docs	49 docs citations	49 times ranked	15389 citing authors

#	Article	IF	Citations
1	Highly stretchable van der Waals thin films for adaptable and breathable electronic membranes. Science, 2022, 375, 852-859.	6.0	96
2	High-order superlattices by rolling up van der Waals heterostructures. Nature, 2021, 591, 385-390.	13.7	163
3	Layered Intercalation Materials. Advanced Materials, 2021, 33, e2004557.	11.1	92
4	High-yield exfoliation of 2D semiconductor monolayers and reassembly of organic/inorganic artificial superlattices. CheM, 2021, 7, 1887-1902.	5.8	36
5	Two-dimensional van der Waals thin film transistors as active matrix for spatially resolved pressure sensing. Nano Research, 2021, 14, 3395-3401.	5.8	19
6	Large-Area Synthesis and Patterning of All-Inorganic Lead Halide Perovskite Thin Films and Heterostructures. Nano Letters, 2021, 21, 1454-1460.	4.5	27
7	Approaching the intrinsic exciton physics limit in two-dimensional semiconductor diodes. Nature, 2021, 599, 404-410.	13.7	57
8	Highâ€Performance Flexible Bismuth Telluride Thin Film from Solution Processed Colloidal Nanoplates. Advanced Materials Technologies, 2020, 5, 2000600.	3.0	26
9	Probing photoelectrical transport in lead halide perovskites with van der Waals contacts. Nature Nanotechnology, 2020, 15, 768-775.	15.6	63
10	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	13.7	393
11	Doping on demand in 2D devices. Nature Electronics, 2020, 3, 77-78.	13.1	18
12	van der Waals Integrated Devices Based on Nanomembranes of 3D Materials. Nano Letters, 2020, 20, 1410-1416.	4.5	19
13	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. Nature Electronics, 2020, 3, 630-637.	13.1	61
14	Nanowire Electronics: From Nanoscale to Macroscale. Chemical Reviews, 2019, 119, 9074-9135.	23.0	210
15	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. Nano Letters, 2019, 19, 6819-6826.	4.5	72
16	Van der Waals thin-film electronics. Nature Electronics, 2019, 2, 378-388.	13.1	131
17	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503.	16.1	464
18	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429

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19	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. Research, 2019, 2019, 8304824.	2.8	2
20	Monolayer atomic crystal molecular superlattices. Nature, 2018, 555, 231-236.	13.7	323
21	Highly-anisotropic optical and electrical properties in layered SnSe. Nano Research, 2018, 11, 554-564.	5.8	114
22	Building two-dimensional materials one row at a time: Avoiding the nucleation barrier. Science, 2018, 362, 1135-1139.	6.0	155
23	Solution-processable 2D semiconductors for high-performance large-area electronics. Nature, 2018, 562, 254-258.	13.7	644
24	Thickness-Tunable Synthesis of Ultrathin Type-II Dirac Semimetal PtTe₂ Single Crystals and Their Thickness-Dependent Electronic Properties. Nano Letters, 2018, 18, 3523-3529.	4.5	147
25	Improvement by Channel Recess of Contact Resistance and Gate Control in Large-Scale Spin-Coated MoS₂ MOSFETs. IEEE Electron Device Letters, 2018, 39, 1453-1456.	2.2	6
26	Microwaveâ€Assisted Rapid Synthesis of Grapheneâ€Supported Single Atomic Metals. Advanced Materials, 2018, 30, e1802146.	11.1	244
27	Molecular ligand modulation of palladium nanocatalysts for highly efficient and robust heterogeneous oxidation of cyclohexenone to phenol. Science Advances, 2017, 3, e1600615.	4.7	24
28	A Solution Processable Highâ€Performance Thermoelectric Copper Selenide Thin Film. Advanced Materials, 2017, 29, 1606662.	11.1	96
29	Layer-by-Layer Degradation of Methylammonium Lead Tri-iodide Perovskite Microplates. Joule, 2017, 1, 548-562.	11.7	199
30	Chemical vapor deposition growth of single-crystalline cesium lead halide microplatelets and heterostructures for optoelectronic applications. Nano Research, 2017, 10, 1223-1233.	5.8	96
31	Three-dimensional graphene membrane cathode for high energy density rechargeable lithium-air batteries in ambient conditions. Nano Research, 2017, 10, 472-482.	5.8	32
32	Tuning the Catalytic Activity of a Metalâ€“Organic Framework Derived Copper and Nitrogen Co-Doped Carbon Composite for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 26769-26774.	4.0	63
33	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. Science, 2016, 354, 1414-1419.	6.0	1,292
34	Scalable solution-phase epitaxial growth of symmetry-mismatched heterostructures on two-dimensional crystal soft template. Science Advances, 2016, 2, e1600993.	4.7	52
35	Plasmonic/Nonlinear Optical Material Core/Shell Nanorods as Nanoscale Plasmon Modulators and Optical Voltage Sensors. Angewandte Chemie - International Edition, 2016, 55, 583-587.	7.2	21
36	Three-dimensional graphene framework with ultra-high sulfur content for a robust lithiumâ€“sulfur battery. Nano Research, 2016, 9, 240-248.	5.8	165

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37	Significantly Enhanced Visible Light Photoelectrochemical Activity in TiO₂ Nanowire Arrays by Nitrogen Implantation. Nano Letters, 2015, 15, 4692-4698.	4.5	159
38	High-performance transition metalâ€“doped Pt ₃ Ni octahedra for oxygen reduction reaction. Science, 2015, 348, 1230-1234.	6.0	1,623
39	Cosolvent Approach for Solution-Processable Electronic Thin Films. ACS Nano, 2015, 9, 4398-4405.	7.3	63
40	Wafer-scale growth of large arrays of perovskite microplate crystals for functional electronics and optoelectronics. Science Advances, 2015, 1, e1500613.	4.7	265
41	Solution Processable Colloidal Nanoplates as Building Blocks for High-Performance Electronic Thin Films on Flexible Substrates. Nano Letters, 2014, 14, 6547-6553.	4.5	69
42	Holey graphene frameworks for highly efficient capacitive energy storage. Nature Communications, 2014, 5, 4554.	5.8	1,161
43	A rational design of cosolvent exfoliation of layered materials by directly probing liquidâ€“solid interaction. Nature Communications, 2013, 4, 2213.	5.8	235
44	One-step strategy to graphene/Ni(OH)2 composite hydrogels as advanced three-dimensional supercapacitor electrode materials. Nano Research, 2013, 6, 65-76.	5.8	202
45	Graphene Hydrogels: Functionalized Graphene Hydrogel-Based High-Performance Supercapacitors (Adv. Mater. 40/2013). Advanced Materials, 2013, 25, 5828-5828.	11.1	3