

Liying Jiao

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

8,959
citations

136950

32
h-index

133252

59
g-index

60
all docs

60
docs citations

60
times ranked

13508
citing authors

#	ARTICLE	IF	CITATIONS
1	Narrow graphene nanoribbons from carbon nanotubes. <i>Nature</i> , 2009, 458, 877-880.	27.8	2,313
2	Facile synthesis of high-quality graphene nanoribbons. <i>Nature Nanotechnology</i> , 2010, 5, 321-325.	31.5	757
3	Controlled Synthesis of Highly Crystalline MoS ₂ Flakes by Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2013, 135, 5304-5307.	13.7	655
4	Spatially resolving edge states of chiral graphene nanoribbons. <i>Nature Physics</i> , 2011, 7, 616-620.	16.7	628
5	Transferring and Identification of Single- and Few-Layer Graphene on Arbitrary Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17741-17744.	3.1	522
6	Current Rectification in a Structure: ReSe ₂ /Au Contacts on Both Sides of ReSe ₂ . <i>Nanoscale Research Letters</i> , 2019, 14, 1.	5.7	401
7	Scalable salt-templated synthesis of two-dimensional transition metal oxides. <i>Nature Communications</i> , 2016, 7, 11296.	12.8	379
8	Donor Engineering for NIR-II Molecular Fluorophores with Enhanced Fluorescent Performance. <i>Journal of the American Chemical Society</i> , 2018, 140, 1715-1724.	13.7	379
9	Phase-selective synthesis of 1T MoS ₂ monolayers and heterophase bilayers. <i>Nature Materials</i> , 2018, 17, 1108-1114.	27.5	348
10	Creation of Nanostructures with Poly(methyl methacrylate)-Mediated Nanotransfer Printing. <i>Journal of the American Chemical Society</i> , 2008, 130, 12612-12613.	13.7	283
11	High-Mobility Multilayered MoS ₂ Flakes with Low Contact Resistance Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2017, 29, 1604540.	21.0	214
12	Aligned graphene nanoribbons and crossbars from unzipped carbon nanotubes. <i>Nano Research</i> , 2010, 3, 387-394.	10.4	167
13	Chirality Enriched (12,1) and (11,3) Single-Walled Carbon Nanotubes for Biological Imaging. <i>Journal of the American Chemical Society</i> , 2012, 134, 16971-16974.	13.7	162
14	A native oxide high- κ gate dielectric for two-dimensional electronics. <i>Nature Electronics</i> , 2020, 3, 473-478.	26.0	141
15	Robust Stacking-Independent Ultrafast Charge Transfer in MoS ₂ /WS ₂ Bilayers. <i>ACS Nano</i> , 2017, 11, 12020-12026.	14.6	130
16	Simultaneous synthesis and integration of two-dimensional electronic components. <i>Nature Electronics</i> , 2019, 2, 164-170.	26.0	95
17	Two-Dimensional Semiconductors Grown by Chemical Vapor Transport. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3611-3615.	13.8	92
18	Controlled Synthesis of Two-Dimensional 1T-TiSe ₂ with Charge Density Wave Transition by Chemical Vapor Transport. <i>Journal of the American Chemical Society</i> , 2016, 138, 16216-16219.	13.7	80

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19	Two-Dimensional Layered Heterostructures Synthesized from Core-Shell Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8957-8960.	13.8	78
20	Unveiling the Layer-Dependent Catalytic Activity of PtSe ₂ Atomic Crystals for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6977-6981.	13.8	76
21	Universal Transfer and Stacking of Chemical Vapor Deposition Grown Two-Dimensional Atomic Layers with Water-Soluble Polymer Mediator. <i>ACS Nano</i> , 2016, 10, 5237-5242.	14.6	70
22	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS ₂ . <i>Nano Letters</i> , 2018, 18, 3435-3440.	9.1	69
23	Elastic Properties and Fracture Behaviors of Biaxially Deformed, Polymorphic MoTe ₂ . <i>Nano Letters</i> , 2019, 19, 761-769.	9.1	67
24	Unveiling the Interfacial Effects for Enhanced Hydrogen Evolution Reaction on MoS ₂ /WTe ₂ Hybrid Structures. <i>Small</i> , 2019, 15, e1900078.	10.0	58
25	Phase Engineering of Two-Dimensional Transition Metal Dichalcogenides. <i>Chinese Journal of Chemistry</i> , 2020, 38, 753-760.	4.9	56
26	Visualization of point defects in ultrathin layered 1T-PtSe ₂ . <i>2D Materials</i> , 2019, 6, 041005.	4.4	52
27	Suppression of the Charge Density Wave State in Two-Dimensional 1T-TaSe ₂ by Atmospheric Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8981-8985.	13.8	48
28	Growth of large-area aligned pentagonal graphene domains on high-index copper surfaces. <i>Nano Research</i> , 2016, 9, 2182-2189.	10.4	44
29	Selective Positioning and Integration of Individual Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 205-209.	9.1	43
30	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	43
31	Activating a Two-Dimensional PtSe ₂ Basal Plane for the Hydrogen Evolution Reaction through the Simultaneous Generation of Atomic Vacancies and Pt Clusters. <i>Nano Letters</i> , 2021, 21, 3857-3863.	9.1	40
32	Unveiling the Layer-Dependent Catalytic Activity of PtSe ₂ Atomic Crystals for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 7051-7055.	2.0	37
33	SWCNT@MoS ₂ @SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1604469.	21.0	32
34	Facile synthesis and phase transition of V ₂ O ₃ nanobelts. <i>RSC Advances</i> , 2015, 5, 17782-17785.	3.6	31
35	Densely aligned graphene nanoribbons at ~1/35 nm pitch. <i>Nano Research</i> , 2012, 5, 292-296.	10.4	30
36	Metallic and ferromagnetic MoS ₂ nanobelts with vertically aligned edges. <i>Nano Research</i> , 2015, 8, 2946-2953.	10.4	30

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37	Modulating Photoluminescence of Monolayer Molybdenum Disulfide by Metal-Insulator Phase Transition in Active Substrates. <i>Small</i> , 2016, 12, 3976-3984.	10.0	30
38	Probing the crystallographic orientation of two-dimensional atomic crystals with supramolecular self-assembly. <i>Nature Communications</i> , 2017, 8, 377.	12.8	30
39	Dissipative Rogue Waves Among Noise-Like Pulses in a Tm Fiber Laser Mode Locked by a Monolayer MoS ₂ Saturable Absorber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-7.	2.9	28
40	Carrier mobility tuning of MoS ₂ by strain engineering in CVD growth process. <i>Nano Research</i> , 2021, 14, 2314.	10.4	27
41	Highly crystalline ReSe ₂ atomic layers synthesized by chemical vapor transport. <i>Informa Mater</i> , 2019, 1, 552-558.	17.3	24
42	Atomic MoS ₂ monolayers synthesized from a metal-organic complex by chemical vapor deposition. <i>Nanoscale</i> , 2016, 8, 4486-4490.	5.6	23
43	Chemical Synthesis and Integration of Highly Conductive PdTe ₂ with Low-Dimensional Semiconductors for p-Type Transistors with Low Contact Barriers. <i>Advanced Materials</i> , 2021, 33, e2101150.	21.0	16
44	Direct observation of multiple rotational stacking faults coexisting in freestanding bilayer MoS ₂ . <i>Scientific Reports</i> , 2017, 7, 8323.	3.3	15
45	Fast growth of large single-crystalline WS ₂ monolayers via chemical vapor deposition. <i>Nano Research</i> , 2021, 14, 1659-1662.	10.4	14
46	Atomically Resolved Observation of Continuous Interfaces between an As-Grown MoS ₂ Monolayer and a WS ₂ /MoS ₂ Heterobilayer on SiO ₂ . <i>ACS Applied Nano Materials</i> , 2018, 1, 2041-2048.	5.0	13
47	An electrical switch based on Ag-tetracyanoquinodimethane sandwiched by crossed carbon nanotube electrodes. <i>Applied Physics Letters</i> , 2008, 93, 123115.	3.3	12
48	Electrical Stressing Induced Monolayer Vacancy Island Growth on TiSe ₂ . <i>Nano Letters</i> , 2018, 18, 2179-2185.	9.1	11
49	1D/2D Heterostructures as Ultrathin Catalysts for Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2004296.	10.0	10
50	Phase Transition Photodetection in Charge Density Wave Tantalum Disulfide. <i>Nano Letters</i> , 2020, 20, 6725-6731.	9.1	10
51	Rapid and Large-Scale Quality Assessment of Two-Dimensional MoS ₂ Using Sulfur Particles with Optical Visualization. <i>Nano Letters</i> , 2021, 21, 1260-1266.	9.1	10
52	Two-Dimensional Semiconductors Grown by Chemical Vapor Transport. <i>Angewandte Chemie</i> , 2017, 129, 3665-3669.	2.0	9
53	Photocarrier Dynamics in MoTe ₂ Nanofilms with 2 <i>H</i> and Distorted 1 <i>T</i> Lattice Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44703-44710.	8.0	6
54	Growth of Single-crystalline Transition Metal Dichalcogenides Monolayers with Large-size. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 511-517.	2.6	5

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55	Electrochemical Construction of Edge-Contacted Metal-Semiconductor Junctions with Low Contact Barrier. <i>Advanced Materials</i> , 2022, 34, .	21.0	5
56	Suppression of the Charge Density Wave State in Two-Dimensional $1T\text{-TiSe}_2$ by Atmospheric Oxidation. <i>Angewandte Chemie</i> , 2017, 129, 9109-9113.	2.0	2
57	cis-C=C Bond and Amide Regulated Oriented Supramolecular Assembly on Two-Dimensional Atomic Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30996-31002.	3.1	1
58	Anomalous Linear Layer-Dependent Blue Shift of Ultraviolet-Range Interband Transition in Two-Dimensional MoS_2 . <i>Journal of Physical Chemistry C</i> , 2020, 124, 1609-1616.	3.1	1