Lijie Zhang

List of Publications by Year
in descending order

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		566801	395343
38	1,244	15	33
papers	citations	h-index	g-index

38	38	38	2513
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interlayer Transition and Infrared Photodetection in Atomically Thin Type-II MoTe₂/MoS₂ van der Waals Heterostructures. ACS Nano, 2016, 10, 3852-3858.	7.3	453
2	Anisotropic Broadband Photoresponse of Layered Typeâ€II Weyl Semimetal MoTe₂. Advanced Materials, 2018, 30, e1707152.	11.1	139
3	Raman signatures of inversion symmetry breaking and structural phase transition in type-II Weyl semimetal MoTe2. Nature Communications, 2016, 7, 13552.	5.8	118
4	Interlayer coupling in anisotropic/isotropic van der Waals heterostructures of ReS2 and MoS2 monolayers. Nano Research, 2016, 9, 3772-3780.	5.8	56
5	Vertically coupled ZnO nanorods on MoS2 monolayers with enhanced Raman and photoluminescence emission. Nano Research, 2015, 8, 743-750.	5.8	52
6	Self-Induced Uniaxial Strain in MoS₂ Monolayers with Local van der Waals-Stacked Interlayer Interactions. ACS Nano, 2015, 9, 2704-2710.	7.3	47
7	Vapor-deposited amorphous metamaterials as visible near-perfect absorbers with random non-prefabricated metal nanoparticles. Scientific Reports, 2014, 4, 4850.	1.6	40
8	Epitaxial growth of two-dimensional SnSe₂/MoS₂ misfit heterostructures. Journal of Materials Chemistry C, 2016, 4, 10215-10222.	2.7	33
9	Conversion of Multi-layered MoTe2 Transistor Between P-Type and N-Type and Their Use in Inverter. Nanoscale Research Letters, 2018, 13, 291.	3.1	30
10	Application of three-dimensionally area-selective atomic layer deposition for selectively coating the vertical surfaces of standing nanopillars. Scientific Reports, 2014, 4, 4458.	1.6	28
11	Visualizing Van der Waals Epitaxial Growth of 2D Heterostructures. Advanced Materials, 2021, 33, e2105079.	11.1	24
12	CuO/WO₃ Hybrid Nanocubes for Highâ€Responsivity and Fastâ€Recovery H₂S Sensors Operated at Low Temperature. Particle and Particle Systems Characterization, 2016, 33, 15-20.	1.2	23
13	Carbonâ€Nanotubeâ€Confined Vertical Heterostructures with Asymmetric Contacts. Advanced Materials, 2017, 29, 1702942.	11.1	21
14	Electrical control of spatial resolution in mixed-dimensional heterostructured photodetectors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6586-6593.	3.3	20
15	Near-perfect infrared absorption from dielectric multilayer of plasmonic aluminum-doped zinc oxide. Applied Physics Letters, 2013, 102, .	1.5	19
16	Universal Precise Growth of 2D Transition-Metal Dichalcogenides in Vertical Direction. ACS Applied Materials & Interfaces, 2020, 12, 35337-35344.	4.0	16
17	Strategies for Controlled Growth of Transition Metal Dichalcogenides by Chemical Vapor Deposition for Integrated Electronics. ACS Materials Au, 2022, 2, 665-685.	2.6	16
18	CuFe2O4/MoS2 Mixed-Dimensional Heterostructures with Improved Gas Sensing Response. Nanoscale Research Letters, 2020, 15, 32.	3.1	15

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19	A Universal Atomic Substitution Conversion Strategy Towards Synthesis of Large-Size Ultrathin Nonlayered Two-Dimensional Materials. Nano-Micro Letters, 2021, 13, 165.	14.4	12
20	Atomically Thin WSe₂/CdSe Mixed-Dimensional van der Waals Heterostructures with Enhanced Optoelectrical Properties. ACS Photonics, 2019, 6, 2067-2072.	3.2	11
21	Electron beam lithography induced doping in multilayer MoTe2. Applied Surface Science, 2021, 540, 148276.	3.1	9
22	Rational Control on Quantum Emitter Formation in Carbon-Doped Monolayer Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2022, 14, 3189-3198.	4.0	9
23	2D Ultrathin pâ€type ZnTe with High Environmental Stability. Advanced Electronic Materials, 2022, 8, .	2.6	9
24	Pronounced Photovoltaic Response from Multi-layered MoTe2 Phototransistor with Asymmetric Contact Form. Nanoscale Research Letters, 2017, 12, 603.	3.1	7
25	Multiple-Dimensionally Controllable Nucleation Sites of Two-Dimensional WS₂/Bi₂Se₃ Heterojunctions Based on Vapor Growth. ACS Applied Materials & Interfaces, 2021, 13, 15518-15524.	4.0	7
26	Nondestructively decorating surface textured silicon with nanorod arrays for enhancing light harvesting. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2542-2549.	0.8	6
27	Monolayer-ReS2 field effect transistor using monolayer-graphene as electrodes. Physica B: Condensed Matter, 2019, 554, 35-39.	1.3	6
28	Distinguishing plasmonic absorption modes by virtue of inversed architectures with tunable atomic-layer-deposited spacer layer. Nanotechnology, 2014, 25, 504004.	1.3	5
29	Large-Size Superlattices Synthesized by Sequential Sulfur Substitution-Induced Transformation of Metastable MoTe₂. Chemistry of Materials, 2021, 33, 9760-9768.	3.2	5
30	Nanosphere@nanorod hybrid arrays generated on substrates by a one-pot process as low-reflecting surfaces. RSC Advances, 2013, 3, 21039.	1.7	2
31	Coherent Heterostructure Mesh Grown by Gap-Filling Epitaxial Chemical Vapor Deposition. Chemistry of Materials, 0, , .	3.2	2
32	Band Alignment Engineering by Twist Angle and Composition Modulation for Heterobilayer. Small, 2022, 18, .	5.2	2
33	Enhanced electrical and optoelectrical properties of cadmium selenide nanobelts by chlorine doping. Micro and Nano Letters, 2014, 9, 55-59.	0.6	1
34	Atomic-Layer-Deposited Transparent Conductive Oxide for Enhancing Antireflection of Catalytically Etched Silicon Nanowire Arrays. Journal of Nanoengineering and Nanomanufacturing, 2014, 4, 321-325.	0.3	1
35	Radial sandwich hybrid nanorods by analogously inserting Au nanoparticles in ZnO nanorods. RSC Advances, 2013, 3, 21256.	1.7	0
36	Nondestructively decorating surface textured silicon with nanorod arrays for enhancing light harvesting (Phys. Status Solidi A 12â•2013). Physica Status Solidi (A) Applications and Materials Science, 2013, 210, .	0.8	0

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37	Temperature-dependent Photoluminescence of Silicon Nanocrystals Embedded in SiO2 Matrix. Chemical Research in Chinese Universities, 2018, 34, 513-516.	1.3	0
38	Proton-Initiated Darkening and UV-Originated Re-Brightening Photoluminescence of Colloidal Quantum Dots. Journal of Nanoengineering and Nanomanufacturing, 2014, 4, 326-329.	0.3	0