

Synthesis of Largeâ€•Area MoS₂ Atomic Lay

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Transition Metal Dichalcogenide Alloys: Stability and Electronic Properties. Journal of Physical Chemistry Letters, 2012, 3, 3652-3656.	2.1	290
2	Electronics and optoelectronics of two-dimensional transition metal dichalcogenides. Nature Nanotechnology, 2012, 7, 699-712.	15.6	13,346
3	Effects of strain on band structure and effective masses in MoS ₂ . Physical Review B, 2012, 86, .	1.1	405
4	Large-scale 2D electronics based on single-layer MoS ₂ grown by chemical vapor deposition. , 2012, , .		51
5	Integrated Circuits Based on Bilayer MoS ₂ Transistors. Nano Letters, 2012, 12, 4674-4680.	4.5	1,526
6	Few-layer MoS ₂ nanosheets coated onto multi-walled carbon nanotubes as a low-cost and highly electrocatalytic counter electrode for dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 24753.	6.7	205
7	Wafer-scale MoS ₂ thin layers prepared by MoO ₃ sulfurization. Nanoscale, 2012, 4, 6637.	2.8	621
8	Role of Boundary Layer Diffusion in Vapor Deposition Growth of Chalcogenide Nanosheets: The Case of GeS. ACS Nano, 2012, 6, 8868-8877.	7.3	137
10	An MoS ₂ Structure with High Affinity for Adsorbate Interaction. Angewandte Chemie - International Edition, 2012, 51, 10284-10288.	7.2	13
11	Preparation of MoS ₂ â€Polyvinylpyrrolidone Nanocomposites for Flexible Nonvolatile Rewritable Memory Devices with Reduced Graphene Oxide Electrodes. Small, 2012, 8, 3517-3522.	5.2	393
12	Graphene oxide as a highly selective substrate to synthesize a layered MoS ₂ hybrid electrocatalyst. Chemical Communications, 2012, 48, 7687.	2.2	174
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15	van der Waals Epitaxy of MoS ₂ Layers Using Graphene As Growth Templates. Nano Letters, 2012, 12, 2784-2791.	4.5	888
17	Thickness-Dependent Interfacial Coulomb Scattering in Atomically Thin Field-Effect Transistors. Nano Letters, 2013, 13, 3546-3552.	4.5	285
18	Joined edges in MoS ₂ : metallic and half-metallic wires. Journal of Physics Condensed Matter, 2013, 25, 312201.	0.7	21
19	Fabrication of stretchable MoS ₂ thin-film transistors using elastic ion-gel gate dielectrics. Applied Physics Letters, 2013, 103, .	1.5	96
20	Intrinsic Electronic Transport Properties of High-Quality Monolayer and Bilayer MoS ₂ . Nano Letters, 2013, 13, 4212-4216.	4.5	558

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22	Recent advances in free-standing two-dimensional crystals with atomic thickness: design, assembly and transfer strategies. Chemical Society Reviews, 2013, 42, 8187.	18.7	386
23	Van der Waals epitaxial growth of MoS ₂ on SiO ₂ /Si by chemical vapor deposition. RSC Advances, 2013, 3, 17287.	1.7	41
24	Improved dispersant-free liquid exfoliation down to the graphene-like state of solvent-free mechanochemically delaminated bulk MoS ₂ . Journal of Materials Chemistry C, 2013, 1, 6411.	2.7	50
25	Layer Thinning and Etching of Mechanically Exfoliated MoS ₂ Nanosheets by Thermal Annealing in Air. Small, 2013, 9, 3314-3319.	5.2	229
26	Tunable sulfur desorption in exfoliated MoS ₂ by means of thermal annealing in ultra-high vacuum. Chemical Physics Letters, 2013, 588, 198-202.	1.2	124
27	A new (2 Å ⁻¹) dimerized structure of monolayer 1T-molybdenum disulfide, studied from first principles calculations. Journal of Chemical Physics, 2013, 139, 174702.	1.2	73
28	MoS ₂ Nanocrystals Confined in a DNA Matrix Exhibiting Energy Transfer. Langmuir, 2013, 29, 11471-11478.	1.6	31
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33	Valley Carrier Dynamics in Monolayer Molybdenum Disulfide from Helicity-Resolved Ultrafast Pump-Probe Spectroscopy. ACS Nano, 2013, 7, 11087-11093.	7.3	213
34	HfO ₂ on MoS ₂ by Atomic Layer Deposition: Adsorption Mechanisms and Thickness Scalability. ACS Nano, 2013, 7, 10354-10361.	7.3	237
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36	Formation of cylindrical micro-lens array in fused silica glass using laser irradiations. , 2013, , .		7
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40	Facile synthesis of MoS ₂ /graphene composites: effects of different cationic surfactants on microstructures and electrochemical properties of reversible lithium storage. <i>RSC Advances</i> , 2013, 3, 21675.	1.7	62
41	Controlled Growth of High-Quality Monolayer WS ₂ Layers on Sapphire and Imaging Its Grain Boundary. <i>ACS Nano</i> , 2013, 7, 8963-8971.	7.3	696
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43	Graphene-Like Two-Dimensional Materials. <i>Chemical Reviews</i> , 2013, 113, 3766-3798.	23.0	3,761
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55	Controlled Synthesis of Highly Crystalline MoS ₂ Flakes by Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2013, 135, 5304-5307.	6.6	655
56	High-Concentration Aqueous Dispersions of MoS ₂ . <i>Advanced Functional Materials</i> , 2013, 23, 3577-3583.	7.8	271

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67	High mobility and high on/off ratio field-effect transistors based on chemical vapor deposited single-crystal MoS ₂ grains. Applied Physics Letters, 2013, 102, .	1.5	217
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1454	Substrate-affected lattice structural evolution in compressed monolayer ReS_2 . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24927-24932.	1.3	4
1455	Controlling the morphology of ultrathin $\text{MoS}_2/\text{MoO}_2$ nanosheets grown by chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, 05G509.	0.9	3
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1458	The Role of Nonidealities in the Scaling of MoS_2 FETs. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4635-4640.	1.6	14
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1461	Highly selective and reversible NO_2 gas sensor using vertically aligned MoS_2 flake networks. <i>Nanotechnology</i> , 2018, 29, 464001.	1.3	79
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1465	Conversion of Single Crystal $(\text{NH}_4)_2\text{Mo}_3\text{S}_{13}\cdot\text{H}_2\text{O}$ to Isomorphic Pseudocrystals of MoS_2 Nanoparticles. <i>Chemistry of Materials</i> , 2018, 30, 3847-3853.	3.2	14
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1468	Emerging trends in 2D nanotechnology that are redefining our understanding of “Nanocomposites”. <i>Nano Today</i> , 2018, 21, 18-40.	6.2	59
1469	Chemical vapor deposition of monolayer MoS_2 on sapphire, Si and GaN substrates. <i>Superlattices and Microstructures</i> , 2018, 120, 235-240.	1.4	22
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1479	Amorphous molybdenum sulphide @ nanoporous gold as catalyst for hydrogen evolution reaction in acidic environment. <i>Journal of Materials Science</i> , 2018, 53, 12388-12398.	1.7	17
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