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Controllable Synthesis of Band-Gap-Tunable and Monolayer Transition-Metal Dichalcogenide Alloys

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#	Paper	IF	Citations
75	Synthesis and structure of two-dimensional transition-metal dichalcogenides. <i>MRS Bulletin</i> , 2015 , 40, 566-576	3.2	30
74	Exciton mapping at subwavelength scales in two-dimensional materials. <i>Physical Review Letters</i> , 2015 , 114, 107601	7.4	62
73	Adsorption and Diffusion of Lithium on Monolayer Transition Metal Dichalcogenides (MoS ₂ (1-x)Se _{2x}) Alloys. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28648-28653	3.8	63
72	Temperature dependent surface modification of molybdenum due to low energy He ⁺ ion irradiation. <i>Journal of Nuclear Materials</i> , 2015 , 464, 97-106	3.3	22
71	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. <i>Nature Communications</i> , 2015 , 6, 7749	17.4	173
70	Tailoring molybdenum nanostructure evolution by low-energy He ⁺ ion irradiation. <i>Applied Surface Science</i> , 2015 , 353, 1070-1081	6.7	12
69	Structure and photoluminescence of molybdenum selenide nanomaterials grown by hot filament chemical vapor deposition. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 734-739	5.7	14
68	Recent advances in controlled synthesis of two-dimensional transition metal dichalcogenides via vapour deposition techniques. <i>Chemical Society Reviews</i> , 2015 , 44, 2744-56	58.5	565
67	Two-dimensional transition metal dichalcogenide nanosheet-based composites. <i>Chemical Society Reviews</i> , 2015 , 44, 2713-31	58.5	1191
66	Electron energy loss spectroscopy of excitons in two-dimensional-semiconductors as a function of temperature. <i>Applied Physics Letters</i> , 2016 , 108, 163107	3.4	11
65	Recent progress in chemical vapor deposition growth of two-dimensional transition metal dichalcogenides. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2016 , 62, 9-28	3.5	54
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63	Large area chemical vapor deposition growth of monolayer MoSe ₂ and its controlled sulfurization to MoS ₂ . <i>Journal of Materials Research</i> , 2016 , 31, 917-922	2.5	10
62	Atomically Thin Ordered Alloys of Transition Metal Dichalcogenides: Stability and Band Structures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23024-23029	3.8	14
61	Diffusion-Mediated Synthesis of MoS ₂ /WS ₂ Lateral Heterostructures. <i>Nano Letters</i> , 2016 , 16, 5129-34	11.5	106
60	The effect of carbon impurities on molybdenum surface morphology evolution under high-flux low-energy helium ion irradiation. <i>Journal of Nuclear Materials</i> , 2016 , 478, 287-294	3.3	6
59	Fill Factor Losses in Cu ₂ ZnSn(S _x Se _{1-x}) ₄ Solar Cells: Insights from Physical and Electrical Characterization of Devices and Exfoliated Films. <i>Advanced Energy Materials</i> , 2016 , 6, 1501609	21.8	67

58	Synthesis of WS ₂ xSe _{2-2x} Alloy Nanosheets with Composition-Tunable Electronic Properties. <i>Nano Letters</i> , 2016 , 16, 264-9	11.5	218
57	Stabilities, Electronic and Optical Properties of SnSe ₂ (1-x)S _{2x} Alloys: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5839-5847	3.8	41
56	Multidimensional Thin Film Hybrid Electrodes with MoS Multilayer for Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8688-8695	9.5	33
55	Influence of the substrate material on the optical properties of tungsten diselenide monolayers. <i>2D Materials</i> , 2017 , 4, 025045	5.9	60
54	Inhomogeneous composition distribution in monolayer transition metal dichalcogenide alloys. <i>Materials Research Express</i> , 2017 , 4, 045004	1.7	3
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46	van der Waals Layered Materials: Opportunities and Challenges. <i>ACS Nano</i> , 2017 , 11, 11803-11830	16.7	258
45	Synthesis and structure of molybdenum diselenide nanosheets produced from MoO ₃ and Se powders. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 27-34	5.7	8
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38	Defect-Mediated Alloying of Monolayer Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2018 , 12, 12795-12804	18.0	20
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33	Recent progress in the controlled synthesis of 2D metallic transition metal dichalcogenides. <i>Nanotechnology</i> , 2019 , 30, 182002	3.4	34
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23	Epitaxial Growth and Determination of Band Alignment of Bi ₂ Te ₃ //WSe ₂ Vertical van der Waals Heterojunctions. 2020 , 2, 1351-1359		5

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- 3 Tracking the evolution from isolated dimers to many-body entanglement in $\text{NaLuYb}_2\text{Se}_2$. *Physical Review B*, **2022**, 106, 3.3
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