

Supplementary Information

Heterostructure consists of monolayer MoS₂ and arsenene with novel electronic and optical conductivity

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Table S1 The adsorption edge values of As-MoS₂ heterostructures with different interlayer distance.

Interlayer distance (Å)	2.0	2.2	2.5	3.0	3.2	3.5	3.6	3.7	4.0
Adsorption edge (eV)	1.03	1.04	1.06	1.16	1.27	1.34	1.39	1.47	1.53