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Liquid metal-assisted synthesis of atomically thin indium nitride films featuring 2D electron gases

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The work demonstrates the synthesis of ultrathin two-dimensional (2D) indium nitride (InN) films with few atom thicknesses and lateral dimensions exceeding centimeter-scale. The as-synthesized films feature 2D electron gases rendering them promising candidates for next-generation advanced optoelectronic devices and functional 2D heterostructures.

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