

Supplementary Information

The Magnetic Proximity Effect Induced Large Valley Splitting in 2D InSe/FeI₂ Heterostructures

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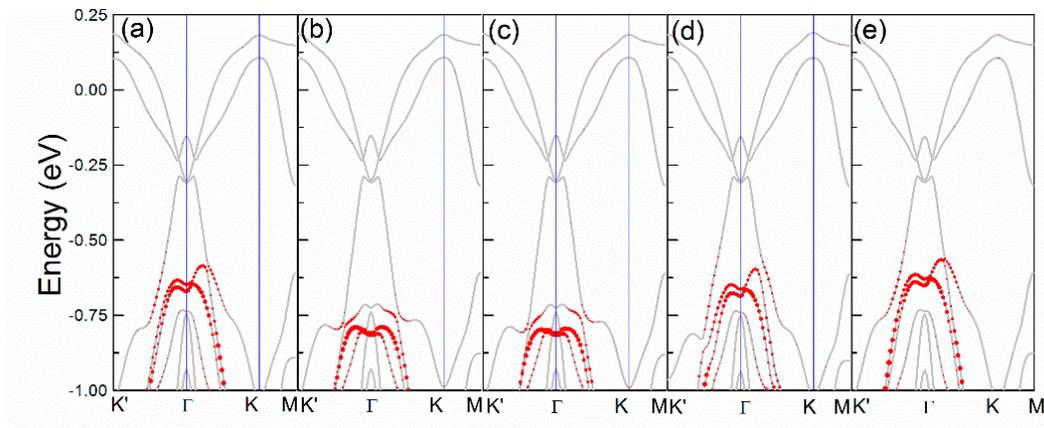


Figure 1. The band structures of InSe/FeI₂ heterostructures with C-2 to C-6 configurations [(a)-(e)]. The red solid dots indicate the contributions from InSe with their size reflecting the relative weight.

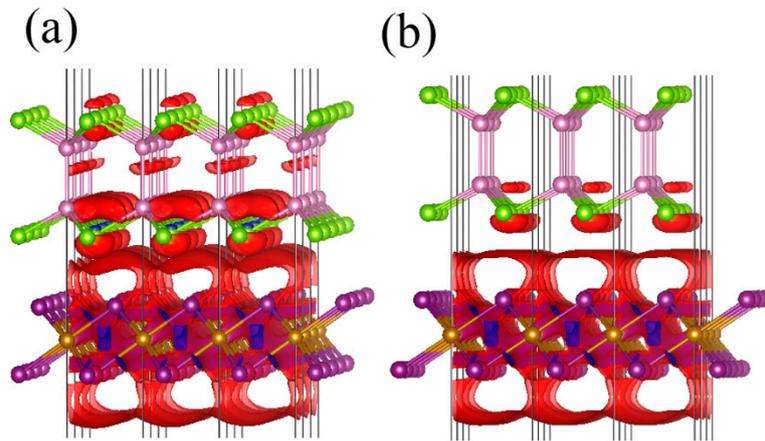


Figure 2. Spin density for C-1 (a) and C-3 (b) configurations. The red and blue color represent charge accumulation and depletion, respectively. The isosurface value of $0.0003 \text{ e} \cdot \text{\AA}^{-3}$. The green, pink purple and brown balls represent Se, In, I and Fe atoms, respectively.