Hidden fully-compensated ferrimagnetism

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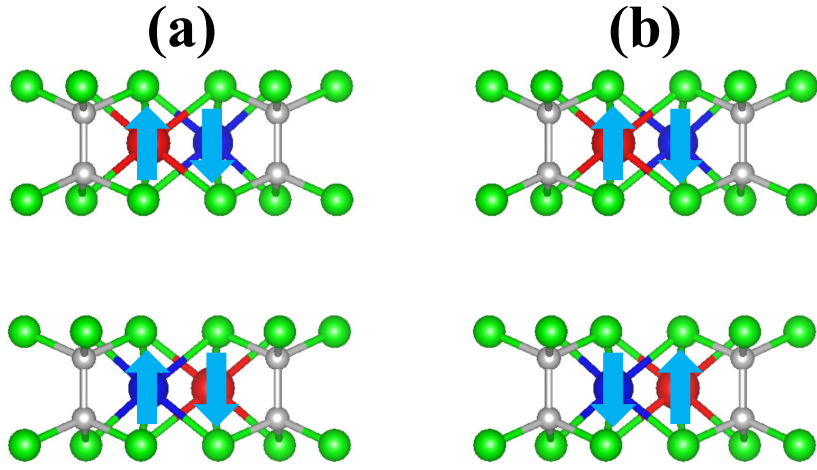
FIG. S1. (Color online) Two magnetic configurations with side view of crystal structure: AFM1 (a) and AFM2 (b) configurations. The blue, red, gray and green balls represent Cr, Mo, C and S atoms, respectively.
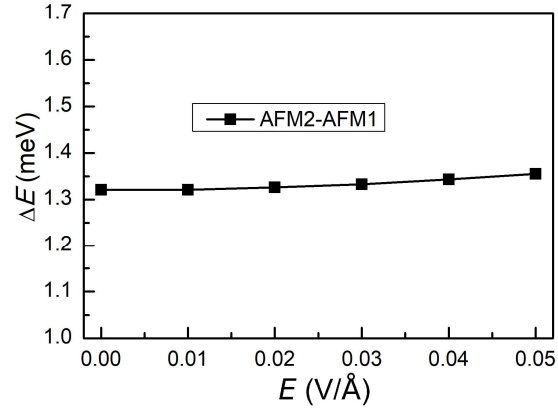

FIG. S2. (Color online) For bilayer $CrMoC_2S_6$, the energy difference between AFM2 and AFM1 configurations as a function of E.
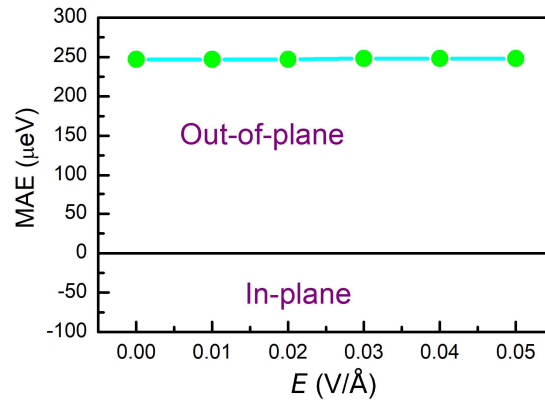

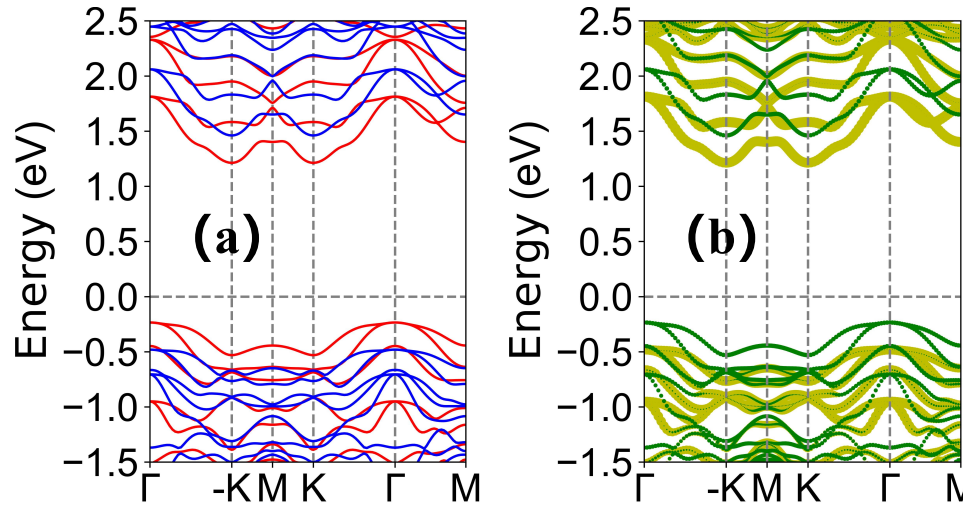FIG. S3. (Color online)For bilayer $CrMoC_2S_6$, the MAE as a function of E.

FIG. S4. (Color online)For bilayer $CrMoC_2S_6$, the energy band structures (a) with layer-characteristic projection (b) at representative E=-0.04 V/Å. In (a), the spin-up and spin-down channels are depicted in blue and red. In (b), the yellow and green represent lower- and upper-layer characters.