Supplementary Information

Tunable Ferromagnetic Ordering in MoS_2 nanosheets with Fluorine Adsorption

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Figure S1: Primitive M-H curves for the F-MoS_2 nanosheets.
Figure S2:The magnetic hysteresis loops measured in the low field range for the F-MoS_2 nanosheets.
Figure S3: M-H curves for the precursor of NH_4F and MoS_2 powder.
Figure S4. Magnetization curves (M-H) of the fluorination-MoS2 nanosheets measured at different temperatures (350~950 K).

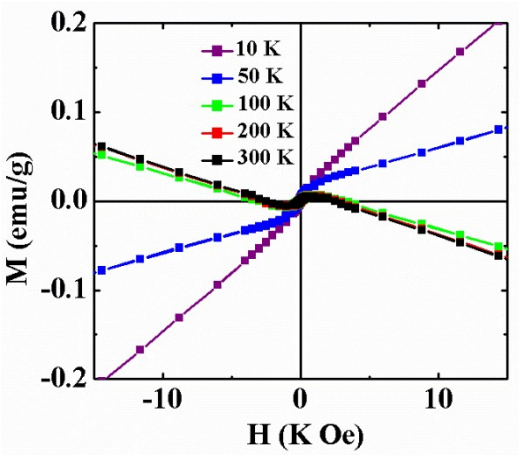

Figure S1: Primitive M-H curves for the F-MoS_2 nanosheets. Results indicate there are ferromagnetism, paramagnetism and diamagnetism co-existent in the sample. Besides the ferromagnetism signal, the paramagnetism dominate at the low temperature while the diamagnetism dominate at the high temperature.

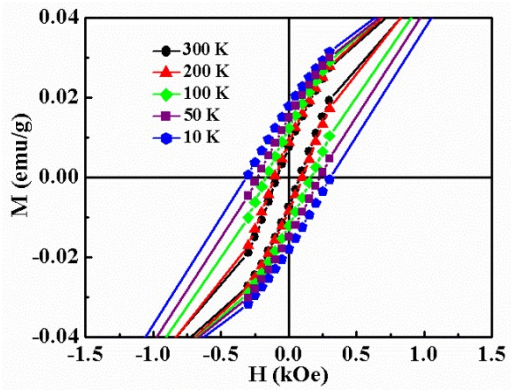

Figure S2:The magnetic hysteresis loops measured in the low field range for the F-MoS_2 nanosheets.

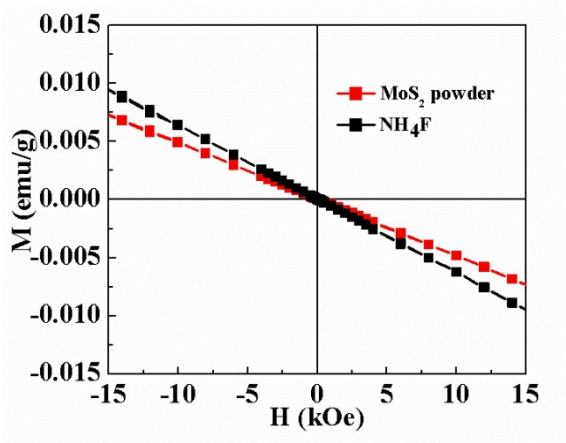

Figure S3: M-H curves for the precursor of NH_4F and MoS_2 powder.

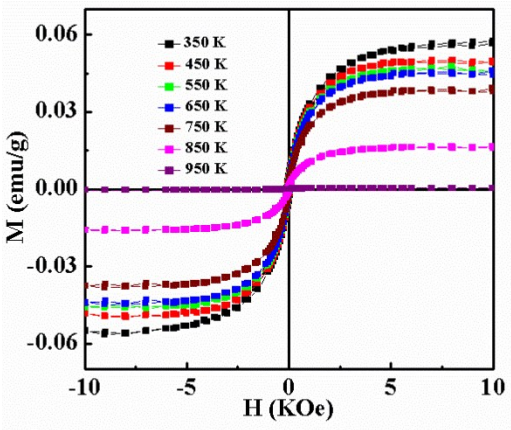

Figure S4. Magnetization curves (M-H) of the fluorination-MoS2 nanosheets measured at different temperatures (350~950 K), where the diamagnetic background have been subtracted.