

Antiferromagnetic Phase Induced by Nitrogen Doping in 2D Cr_2S_3

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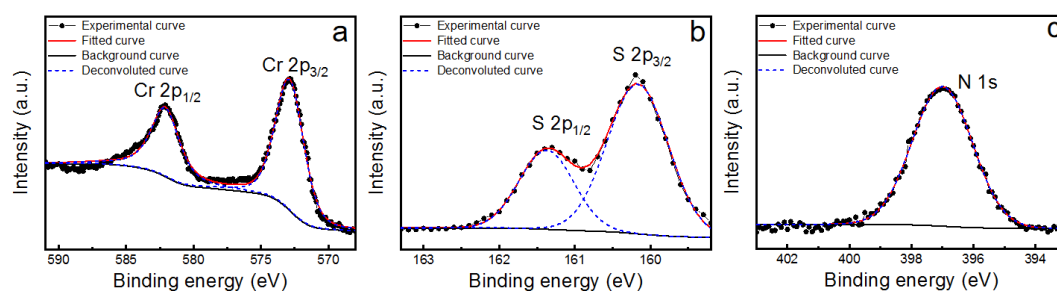


Figure S1. XPS spectra of (a) Cr 2p, (b) S 2p, (c) N 1s of low-density nitrogen doped Cr_2S_3 nanoflakes.

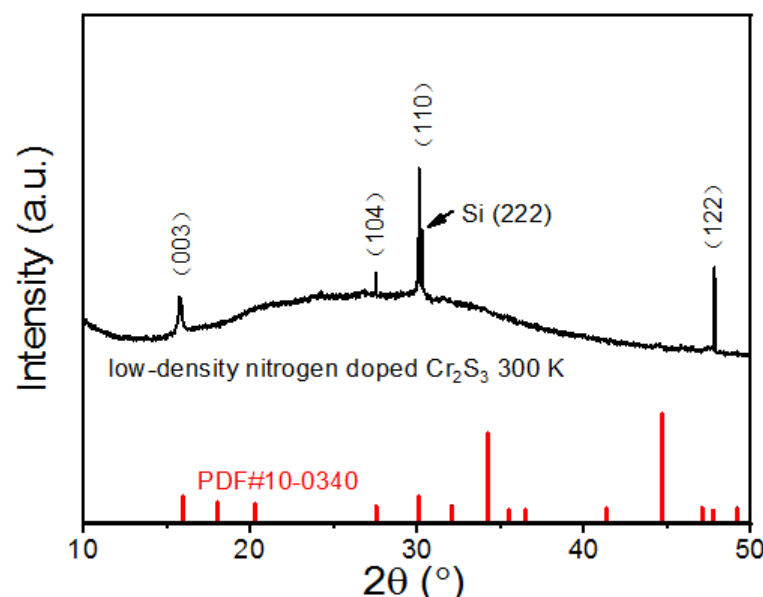


Figure S2. XRD pattern for low-density nitrogen doped Cr_2S_3 nanoflakes.

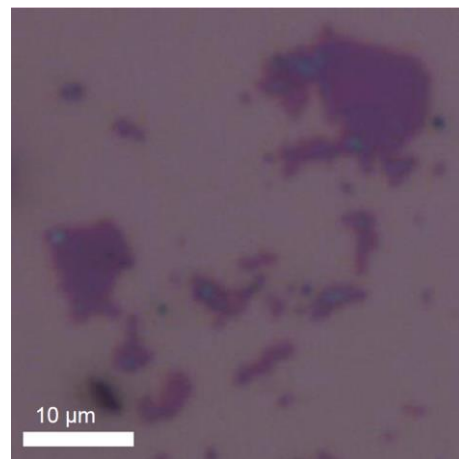


Figure S3. Optical microscope image of N-Cr₂S₃ nanoflakes with high input power of plasma reactor (120 W).

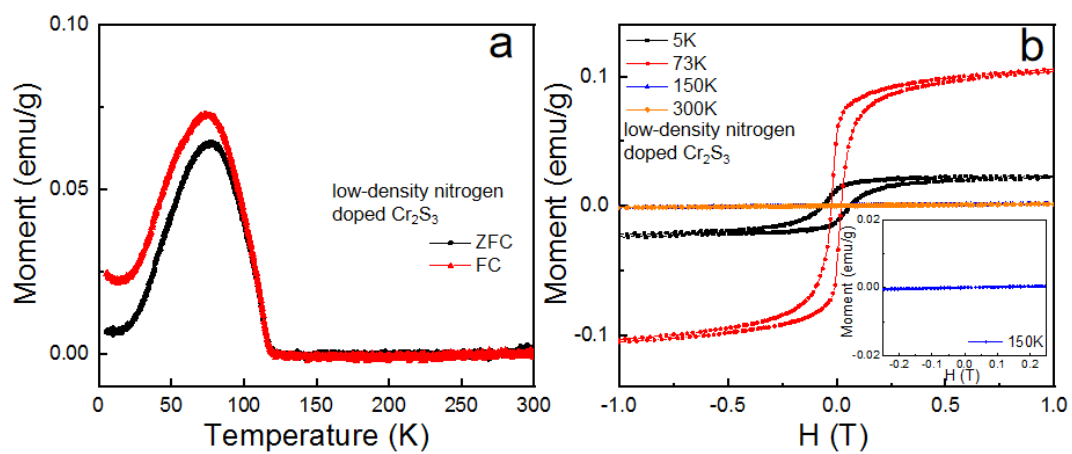


Figure S4. (a) M-T and (b) M-H curves at different temperatures for low-density nitrogen doped Cr₂S₃ nanoflakes, respectively. The inset of (b) is the corresponding magnified image of M-H curve at 150 K.