Supporting Information for

Strain-tunable magnetic and electronic properties of monolayer CrI_3

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Table S1 Total energy of monolayer CrI_3 with biaxial strain within DFT and DFT+U. E_{AFM} and E_{FM} are total energy for AFM and FM states, respectively. And ΔE is defined as E_{AFM}-E_{FM}.

	DFT			DFT+U		
	-6%	0	6%	-6%	0	6%
E_{FM}(eV)	-31.138	-31.563	-31.119	-28.765	-29.230	-29.030
E_{AFM}(eV)	-31.008	-31.501	-31.395	-28.566	-29.147	-29.104
ΔE(eV)	0.130	0.062	-0.275	0.199	0.083	-0.074

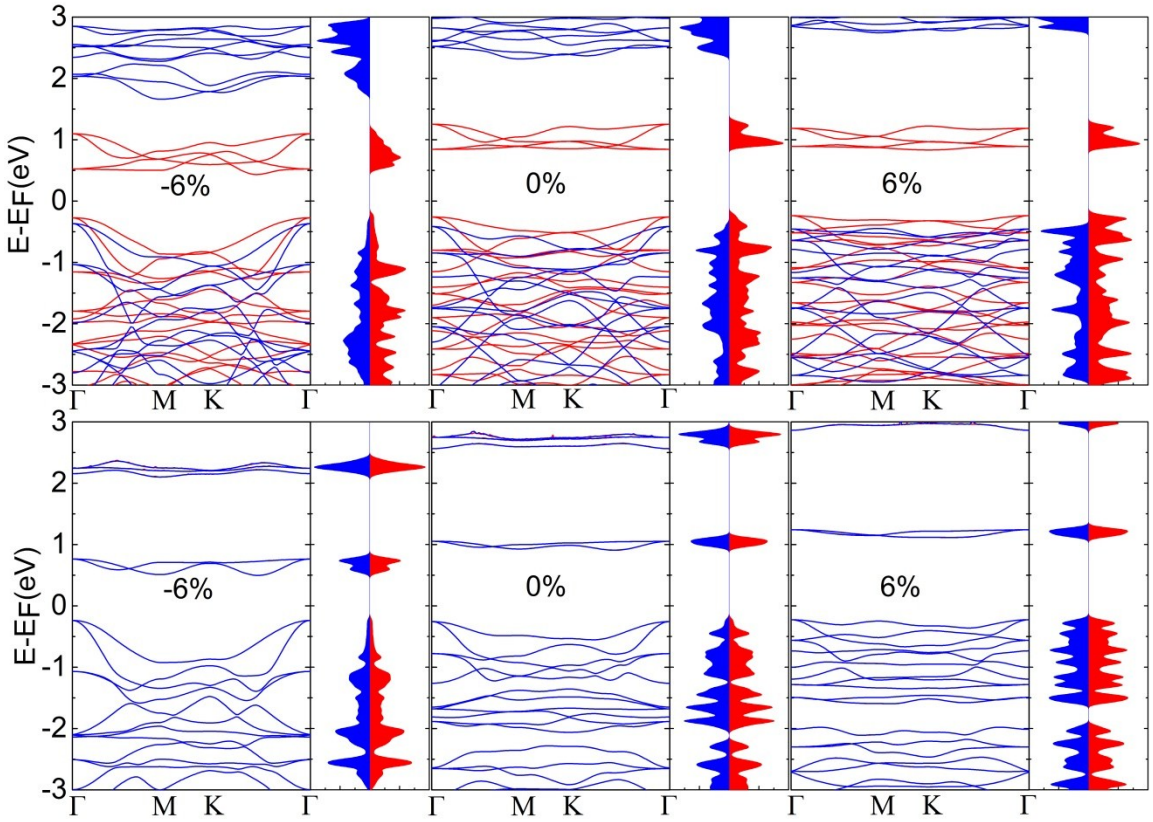

Figure S1 Electronic structure of monolayer CrI_3 with biaxial strain from DFT+U calculations. Top and bottom panel represent the result for the FM and AFM state, respectively. Red and blue indicate the spin-up and spin-down electrons. The Fermi level is set to zero.