

Supporting Information

Tuning the magnetic properties of van der Waals Fe_3GaTe_2 crystals by Co doping

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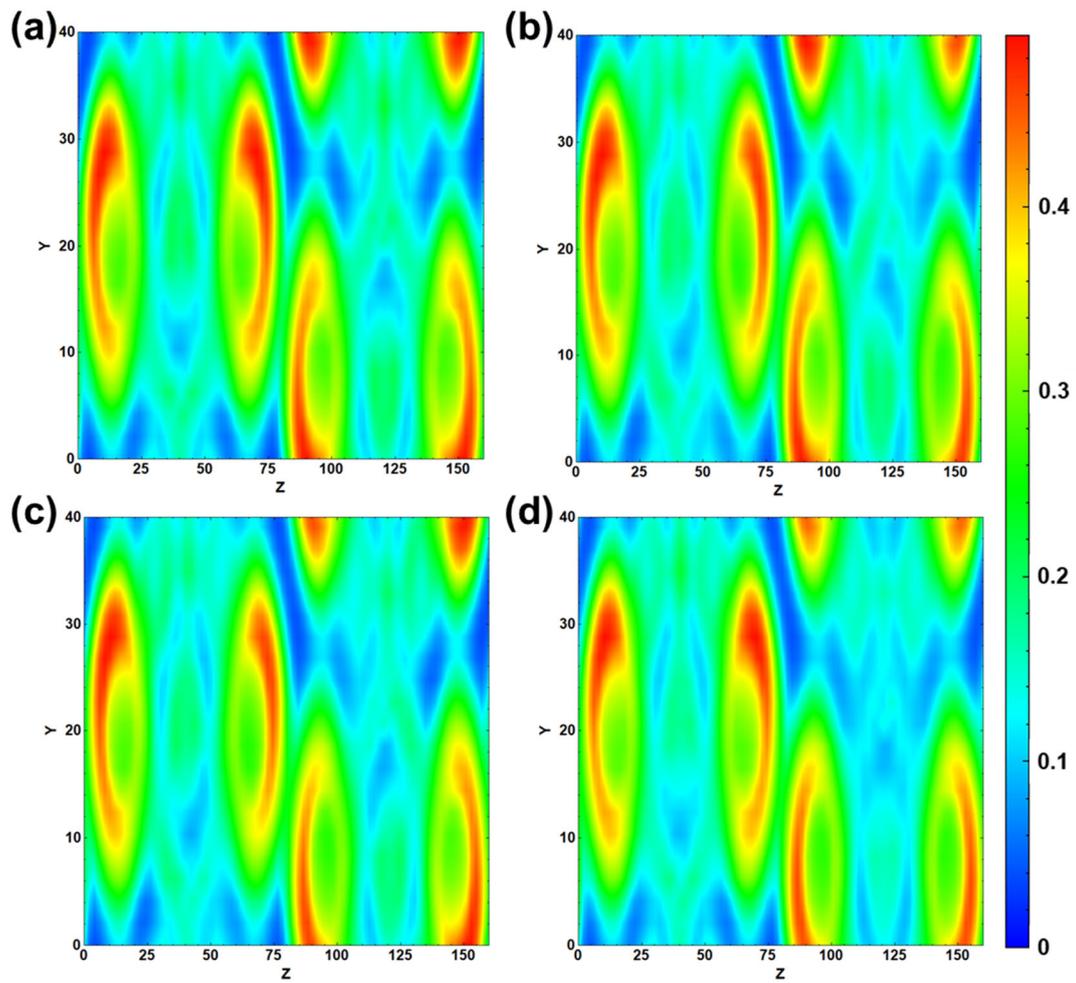


Fig. S1. The electron localization function (ELF) for FM-state (a) FGaT, (b) 2Co-1, (c) 2Co-2 and (d) AFM-state 2Co-3.

Table S1. Calculated magnetic moments for Fe1, Fe2 and averaged (Avg.) magnetic moments for bulk Fe₃GaTe₂ from LDA and GGA functionals along with the experimental (Exp.) data.

	LDA	GGA	Exp.
Fe1 (μ_B)	1.8895	2.2447	-
Fe2 (μ_B)	1.3761	1.5002	-
Avg. (μ_B/Fe)	1.7184	1.9965	1.68
Error (%)	2.28	18.84	-