Supporting Information

Co₂GeO₄Nanoplates and Nano-octahedrons from Low-Temperature Controlled Synthesis and Their Magnetic Properties

Xin Ge, Shuyan Song, Hongjie Zhang *

To explore the effect of the experimental parameters on the products, a seirs of experiments are performed. The respective detailed conditions are given in Table S1. Sample A (SA) and Sample B (SB) are the finally products of Co₂GeO₄nanoparticles among these experiments. Table S1. The products obtained from different conditions.

Sample	CoCl ₂ ·6H ₂ O(g)	GeO ₂ (g)	CTAB(mmol)	NaOH(mmol)	Hydrothermal Temprature (°C)
SA	0.238	0.052	1.1	0.1	120, then annealing at 400
SB	0.238	0.052	1.1	0.4	160
SC	0.238	0.052	1.1	0.8	160
SD	0.238	0.052	None	0.1	160
SE	0.238	0.052	0.275	0.1	160
SF	0.238	0.052	0.55	0.1	160
SG	0.238	0.052	None	0.4	160



Fig. S1. The EDS patterns of SA and SB (the ratio of the above elementsis closed to the theoreticalratio 2:1:4).



Fig. S2. Typical SEM image of the as-prepared Co_2GeO_4 products when the amount of NaOH is 0.8 mmol.



Fig. S3. Thermogravimetric analysis of precursor.



Fig. S4. Plot of χ_{M}^{-1} vs T for SA (open circle) and SB (filled cubic). The line is linear fitted.