

Supporting Information

Modification in Structure, Phase Transition and Magnetic Property of Metallic Gallium Driven by Atom-Molecule Interactions

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Figure 1 Photographs of (a) Ga-0, (b) Ga-1a, (c) Ga-1b, (d) Ga-1c and (e) Ga-1d.

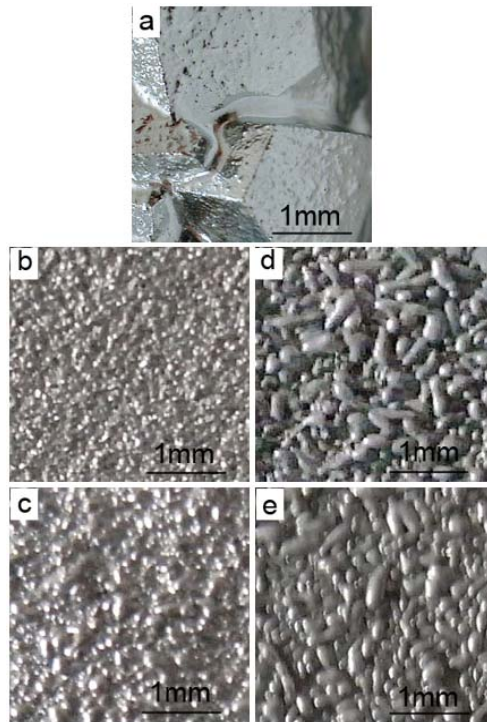


Figure 2 TG (A) and DTG (B) profiles of (a) β -CD and (b) Ga-3a.

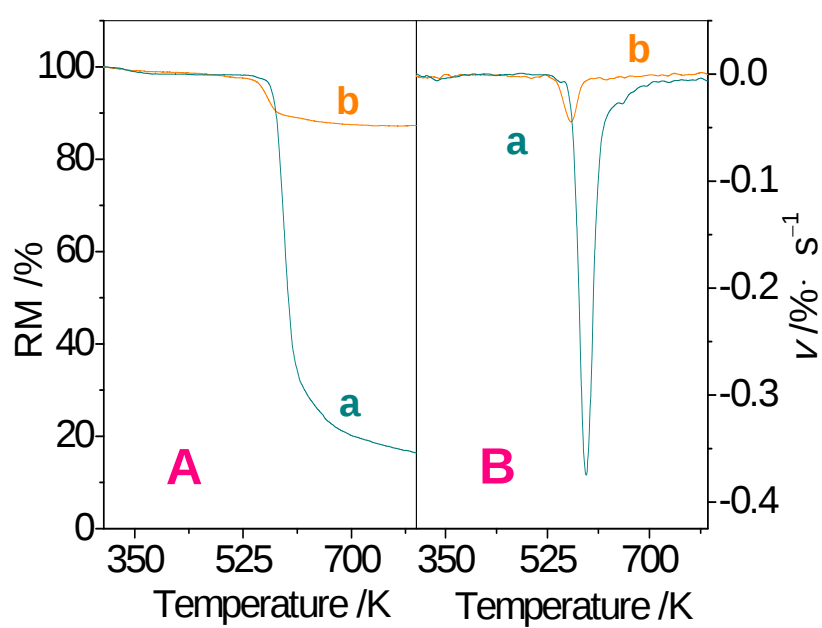


Figure 3 Raman spectra of the residual products (a) β -CD and (b) Ga-3f after sintering at 773.2 K for 0.5 h in nitrogen.

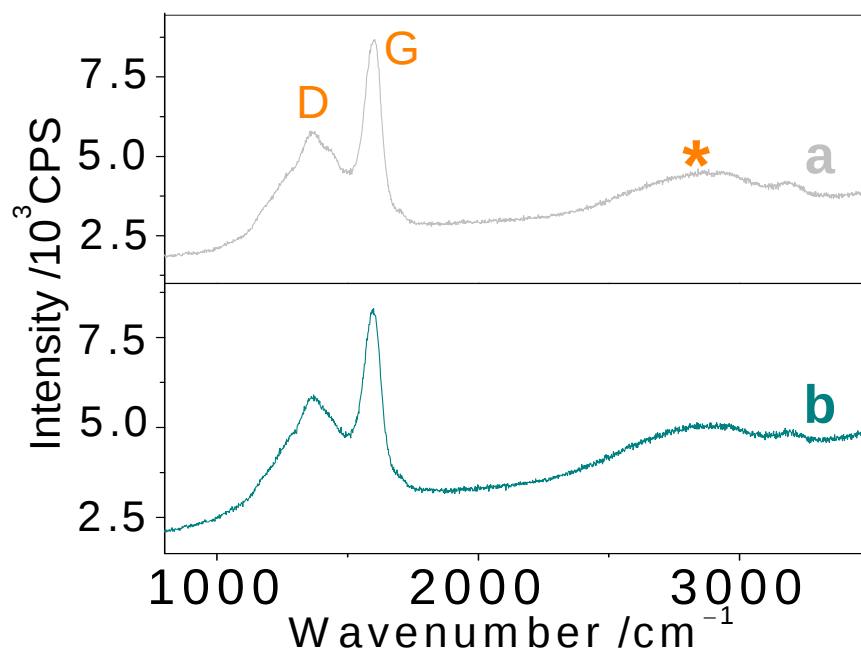


Figure 4 XRD patterns of the residual products (a) β -CD and (b) Ga-3f after sintering at 773.2 K for 0.5 h in nitrogen.

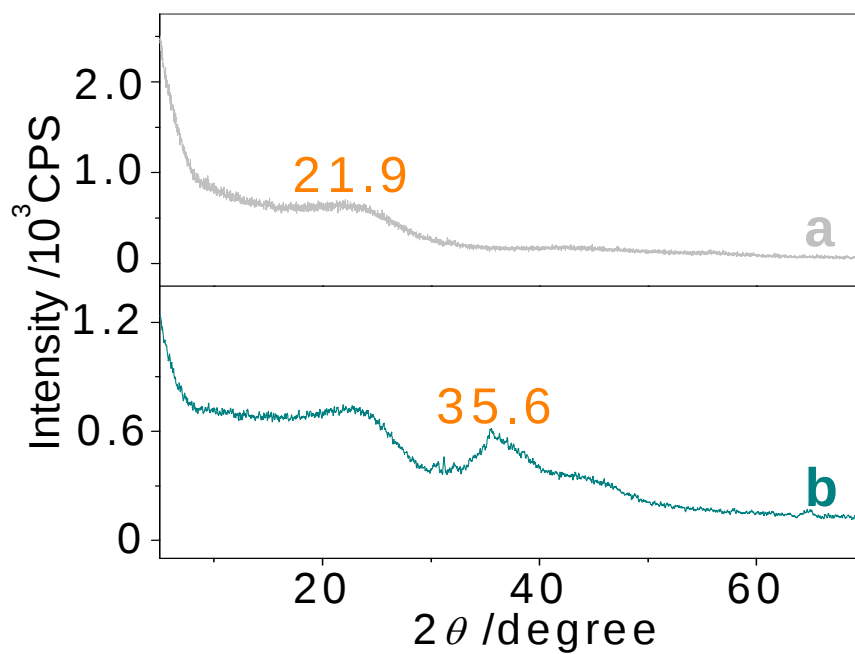


Table 1 Binding energies (eV) of some core levels in Ga–3f.

Sample	Binding energy (eV)				
	Ga 3d	Ga 2p _{3/2}	Ga 2p _{1/2}	C 1s	O 1s
Ga–3f	21.4	1119.2	1146.0	284.8	533.2

Figure 5 Continuous DSC heating and cooling curves of Ga-3e in the second cycle.

