Electronic supplementary information

Self-Templated and Self-Assembled Synthesis of Nano/ Microstructures of Gd-Based Rare-Earth Compounds: Morphology Control, Magnetic and Luminescence Properties

Zhenhe Xu, Chunxia Li*, Dongmei Yang, Wenxin Wang, Xiaojiao Kang, Mengmeng Shang, and Jun Lin*

State Key Laboratory of Rare Earth Resources Utilization, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, and Graduate University of the Chinese Academy of Sciences, Beijing 100049, P. R. China



Figure S1. XRD patterns of evolution for GdF_3 nanorods with different reaction times.



Figure S2. SEM images of evolution for GdF₃ sample at different reaction times: (A) 1 h, (B) 3 h, (C) 5 h, (D) 12 h.



Figure S3. Decay curves for the as-prepared samples: (A) NaGdF₄: 5 mol % Eu³⁺, (B) GdF₃: 5 mol % Eu³⁺, and (C) GdBO₃: 5 mol % Eu³⁺.