

Supporting Information

A Peculiar Layered 12-fold Cationic Coordination Compound

LiInTi₂O₆: Phase Relations, Crystal Structure and Color-tunable Photoluminescence

Liumei Su, Xing Fan, Gemei Cai*, and Zhanpeng Jin*

School of Materials Science and Engineering, Central South University, Changsha, 410083, Hunan, P. R. China

Education Ministry Key Laboratory of Non-ferrous Materials Science and Engineering, Central South University, Changsha, 410083, Hunan, P. R. China

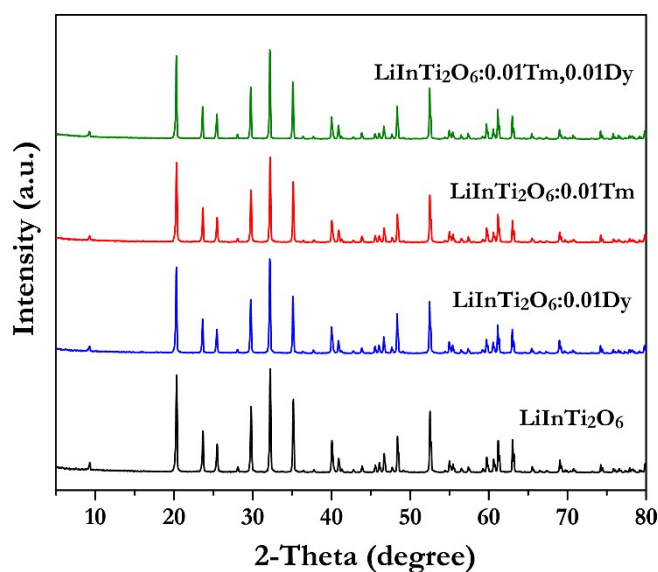


Figure S1. XRD patterns of the representative phosphors of LiInTi₂O₆:0.01Dy³⁺, LiInTi₂O₆:0.01Tm³⁺, and LiInTi₂O₆:0.01Tm³⁺,0.01Dy³⁺. The XRD pattern of pure LiInTi₂O₆ is also given as a reference.

* Corresponding Author. E-mail: caigemei@csu.edu.cn (Ge Mei Cai), jin@csu.edu.cn (Zhan Peng Jin). Tel.: +86-731-88877732; Fax: +86-731-88877732.

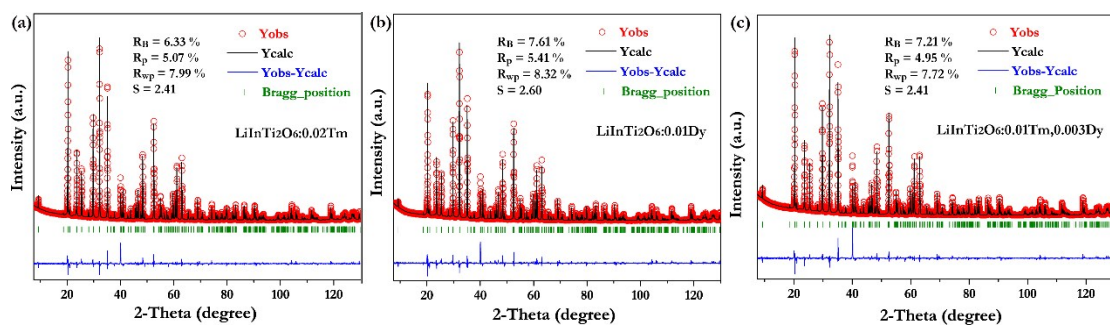


Figure S2. Rietveld refinement patterns for the representative phosphors of $\text{LiInTi}_2\text{O}_6:0.02\text{Tm}^{3+}$, $\text{LiInTi}_2\text{O}_6:0.01\text{Dy}^{3+}$, and $\text{LiInTi}_2\text{O}_6:0.01\text{Tm}^{3+}, 0.003\text{Dy}^{3+}$.