Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Two-step spray-drying synthesis of dense and highly luminescent YAG:Ce^{3+} phosphor powder particles with spherical shape

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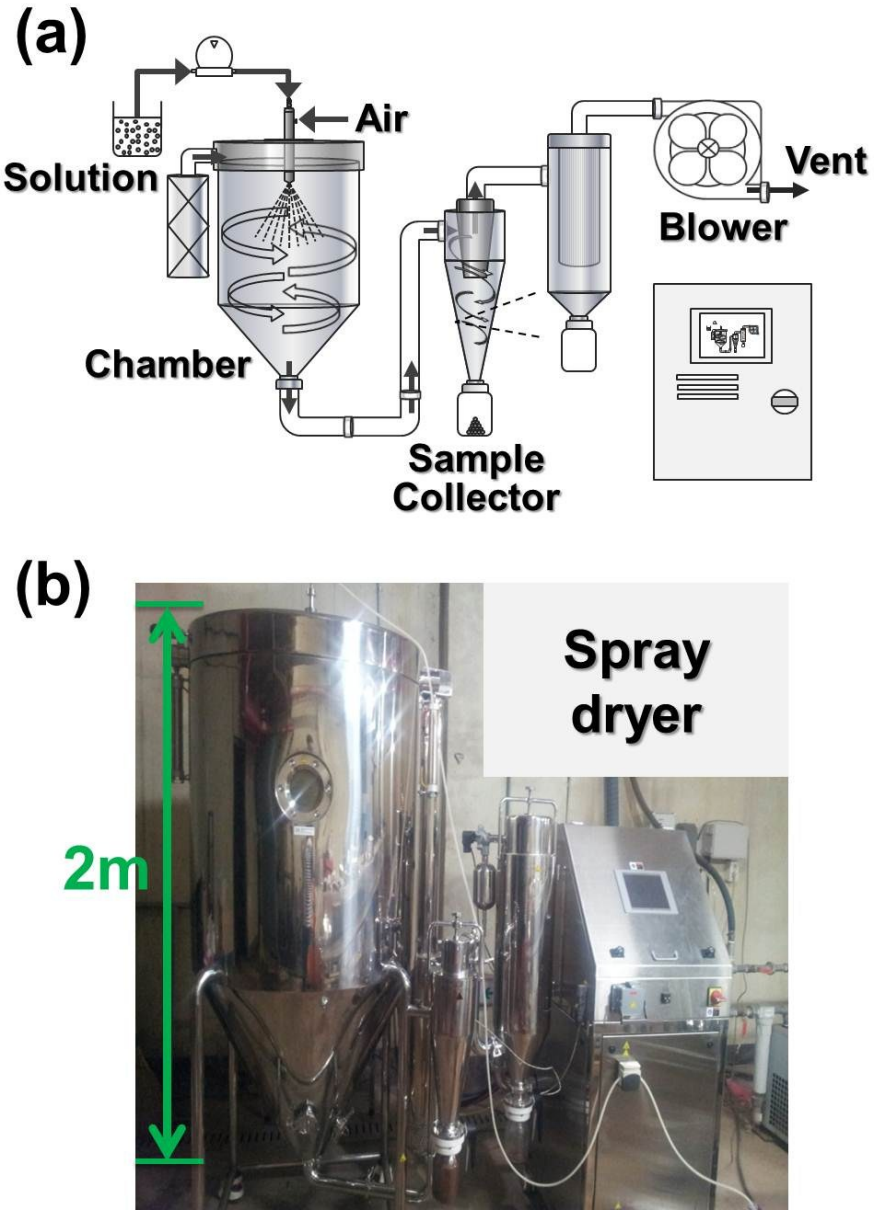

Figure S1. Schematic diagram and digital photo of spray dryer applied in the preparation of precursor powders.

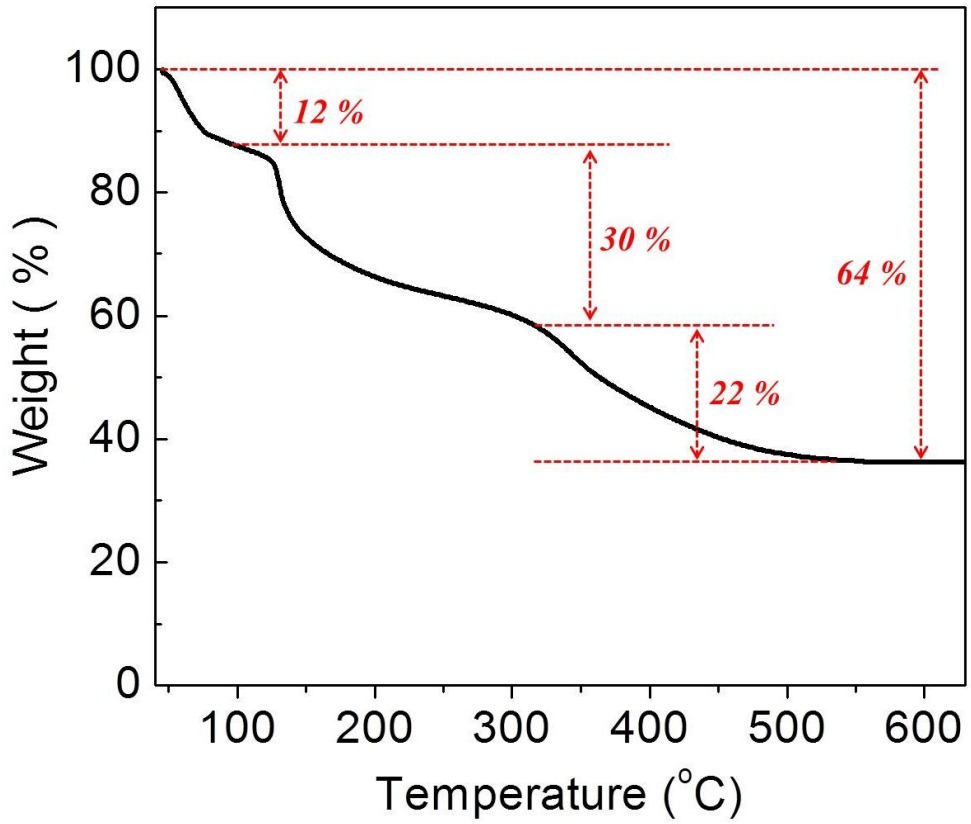

Figure S2. TG analysis of the YAG:Ce^{3+} precursor powders directly prepared by first-step spray drying.

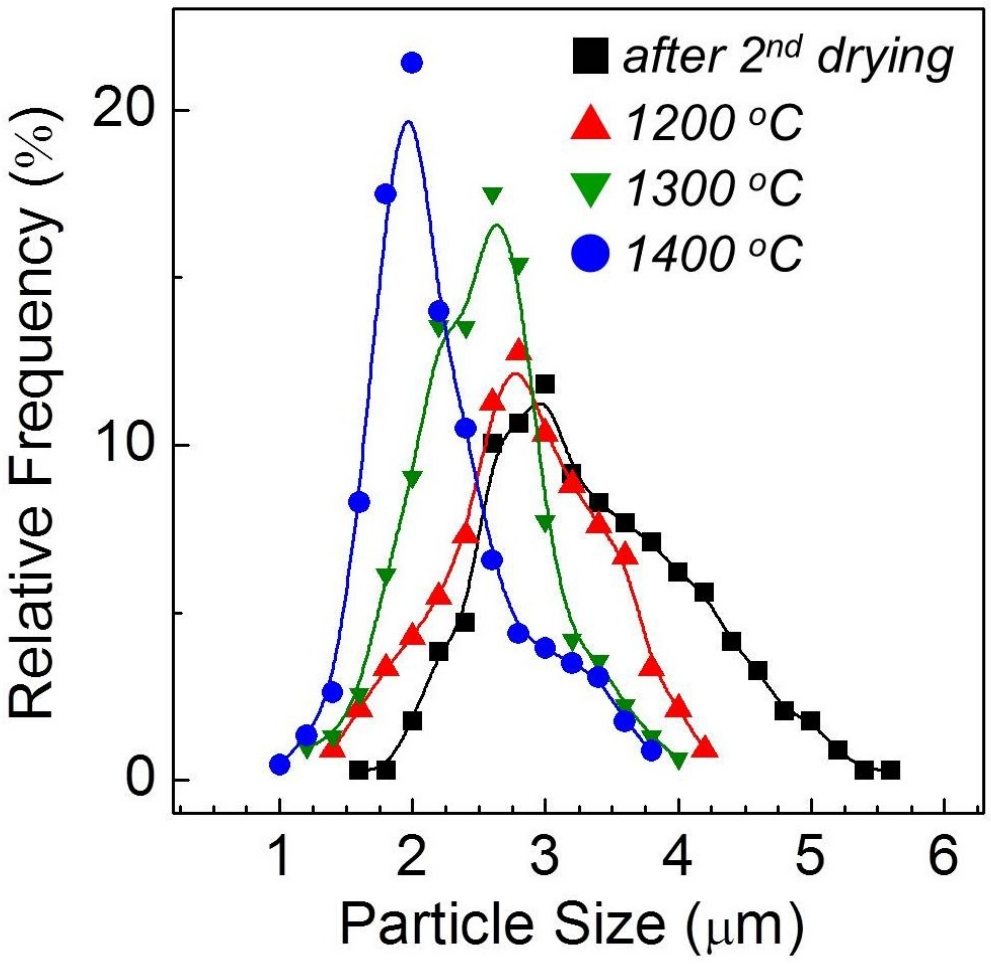

Figure S3. Particle size distributions of the YAG:Ce^{3+} phosphor powders before and after thermal-treatment process.

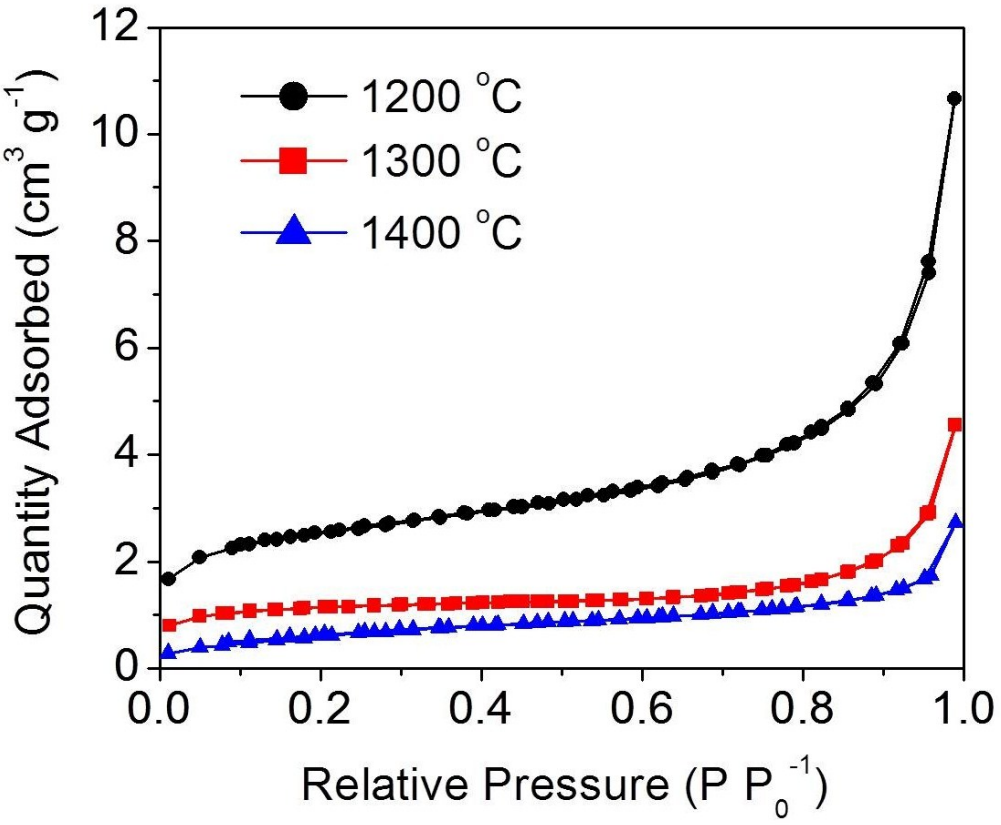

Figure S4. N_2 adsorption-desorption isotherms measured at 77 K for the YAG:Ce^{3+} phosphor powders formed at the various sintering temperatures.

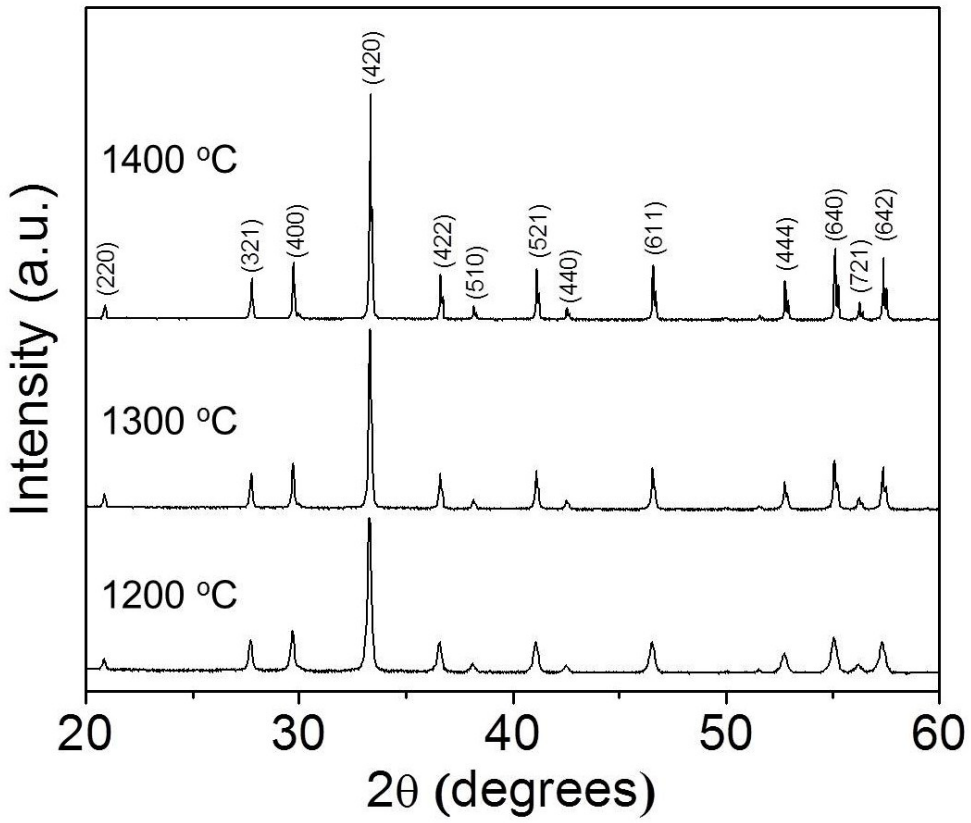

Figure S5. XRD patterns of the YAG:Ce^{3+} phosphor powders formed at the various sintering temperatures.