

## Supplementary Information

# **Controlled Synthesis and Luminescent Properties of Monodispersed $\text{YVO}_4:\text{Bi}^{3+}$ , $\text{Eu}^{3+}$ Nanocrystals by a Facile PEI-modified Hydrothermal Process**

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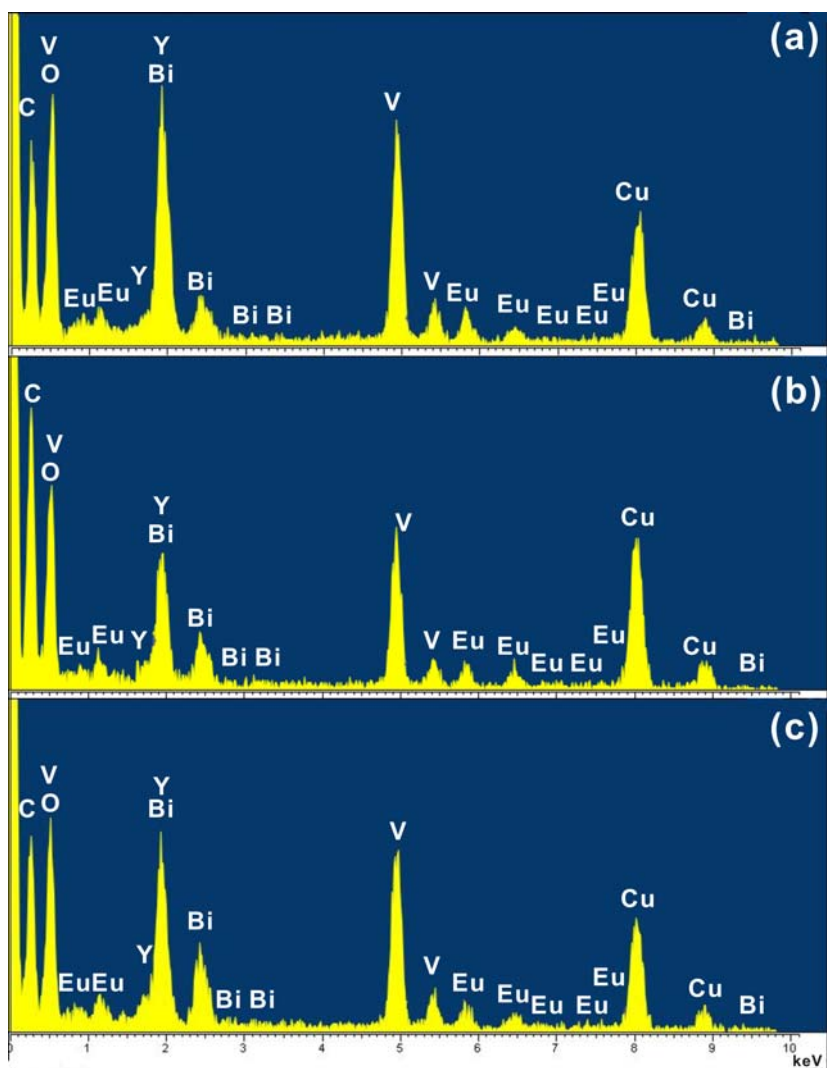


Fig. S1 EDX spectrum of YVO<sub>4</sub>:Bi<sup>3+</sup>, Eu<sup>3+</sup> nanocrystals synthesized with high molecular weight BPEI polymer under different pH conditions. (a) pH = 4, (b) pH = 7, and (c) pH = 11.

**Table S1.** EDX spectrum analysis of  $(Y_{0.7}Bi_{0.15}Eu_{0.15})VO_4$  nanocrystals at different pH conditions.

Element	Atomic %			theoretical value
	pH 4.0	pH 7.0	pH 11.0	
Y	21.62	10.75	10.20	11.67
V	24.12	12.33	12.54	16.66
O	50.30	73.43	73.84	66.67
Eu	2.54	1.74	1.63	2.5
Bi	1.42	1.75	1.80	2.5
total	100	100	100	100