Wide-band Excited $Y_6(WMo)_{0.5}O_{12}$:Eu Red Phosphor for WLED: Structure Evolution, Photoluminescence Properties and Energy Transfer Mechanisms Involved

Huaiyong Li[1*], Hyeon Mi Noh[2], Byung Kee Moon[2], Byung Chun Choi[2], Jung Hyun Jeong[2*], Kiwan Jang[3], Ho Sueb Lee[3] and Soung Soo Yi[4]

[1]Department of Materials Science and Engineering, Liaocheng University, Liaocheng 252059, P. R. China

[2]Department of Physics, Pukyong National University, Busan 608-737, Korea

[3]Department of Physics, Changwon National University, Changwon 641-773, Korea

[4]Department of Electronic Material Engineering, Silla University, Busan 617-736, Korea

[*]Email: huaiyong.lee@gmail.com, jhjeong@pknu.ac.kr, Fax: +82-51-629-5549

Supporting Information:

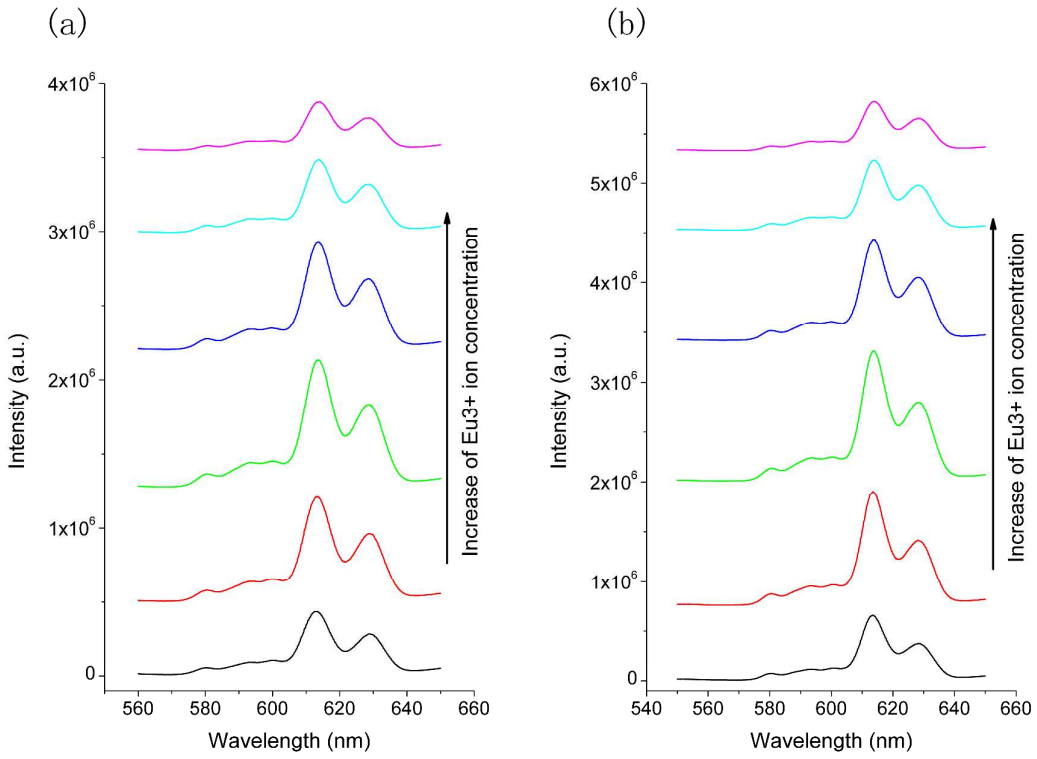

Figure S1. PL emission spectra of YWMO:Eu(2.5%)-800 containing different Eu^{3+} ion concentrations after excited at (a) 350 nm, and (b) 466.5 nm.

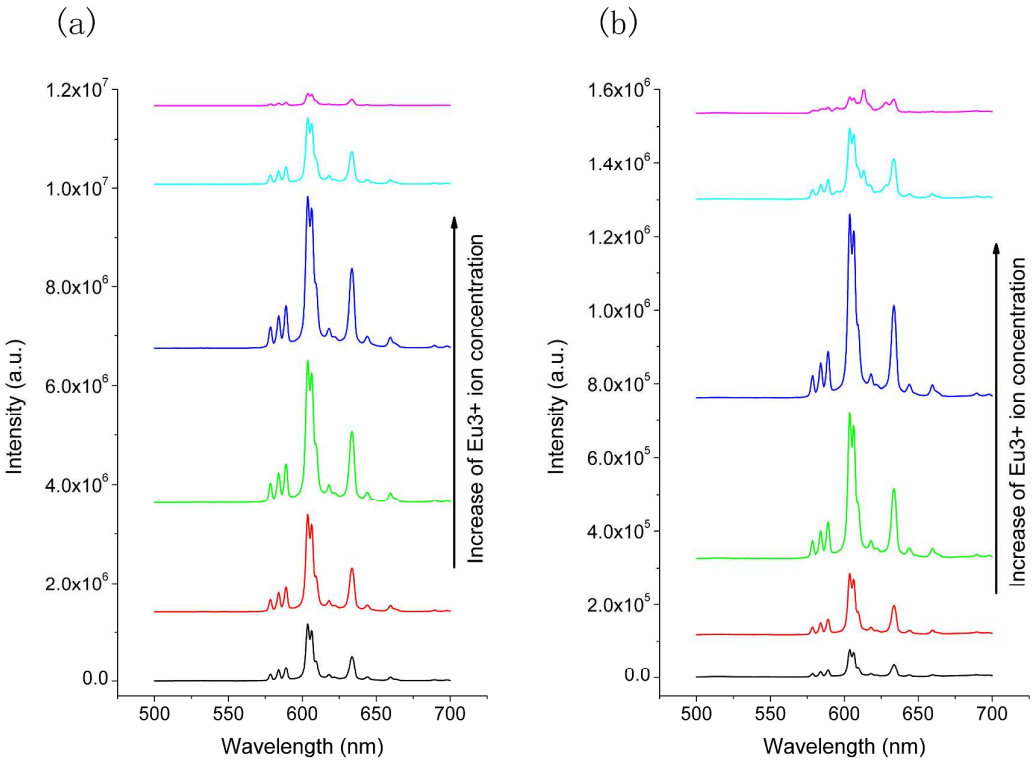

Figure S2. PL emission spectra of YWMO:Eu(2.5%)-1300 containing different Eu^{3+} ion concentrations after excited at (a) 399 nm, and (b) 466.5 nm.