

METHOD OF MAKING Eu^{2+} ACTIVATED INORGANIC RED PHOSPHOR

Abstract of the Disclosure

A method of manufacturing an Eu^{2+} activated inorganic red phosphor is provided, wherein the phosphor exhibits an emission spectrum resolvable into a first Gaussian emission curve and a second Gaussian emission curve; wherein the first Gaussian emission curve has a first Gaussian emission curve peak, $\mathbf{P}_1$; wherein the first Gaussian emission curve peak, $\mathbf{P}_1$, has a peak 1 height, $\mathbf{H}_{\mathbf{P}_1}$, a peak 1 peak wavelength, $\mathbf{P}\lambda_{\mathbf{P}_1}$, and a peak 1 area, $\mathbf{A}_{\mathbf{P}_1}$; wherein the second Gaussian emission curve has a second Gaussian emission curve peak, $\mathbf{P}_2$; wherein the second Gaussian emission curve peak, $\mathbf{P}_2$, has a peak 2 height, $\mathbf{H}_{\mathbf{P}_2}$, a peak 2 peak wavelength, $\mathbf{P}\lambda_{\mathbf{P}_2}$, a peak 2 full width at half max, $\mathbf{FWHM}_{\mathbf{P}_2}$, and a peak 2 area, $\mathbf{A}_{\mathbf{P}_2}$; wherein $\mathbf{P}\lambda_{\mathbf{P}_1} < \mathbf{P}\lambda_{\mathbf{P}_2}$; and, wherein the peak 2 full width at half max, $\mathbf{FWHM}_{\mathbf{P}_2}$, is minimized.

No Fig.