Photoluminescence Curves and Photos of Powder Milk and **Filter Paper Irradiated with NUV Lamp (365 nm) in Air**

Aurora

Emission by

Powder Milk

Photoluminescence (PL) Curves and the Effect of Deoxygenate Agent on PL (Note: Initial luminescence originates from weakly adsorbed oxygen molecules.)





PL Curve and

the Spectrum

Filter Paper





Effect of Wavelength (LED) on Photoluminescence Curves of anatase TiO₂ Powder and Their Spectra



Kinetic Analysis of Thermoluminescence and Simultaneous Photo- and Thermo-luminescence for TiO₂ (anatase) in Air



Modified Band Gap Model Considering Oxygen Adsorption Onto the Surface of TiO2 Vibrational Emission Electronic Level



Wavelength, nm

Hypothetical Mechanism for Oxygen Luminescence



Multi-luminescence Spectrometer Applicable to Photocatalyst R&D







Photos of TiO₂ Powders Irradiated with Blue-LED

CL-Cube Apparatus (2D-Image CCD Camera)



Black & White Image



Color Real Image Before Irradiation



Color Emission Image

