

Figure 10 is a line graph showing the evolution of the photoluminescence (PL) spectrum of the ZnO film after UV irradiation for various times. The x-axis is Wavelength λ , nm, ranging from 500 to 700. The y-axis represents PL intensity. Multiple curves are shown for irradiation times from 0 s to 270 s. A green shaded region highlights the 650-675 nm range. Red asterisks mark the peaks in this region, which shift and change in intensity over time.

