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Optical behaviour of ZnO nanocapsules and their nanocomposites mixed with ferroelectric liquid crystal W-206E

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Highlights

- We use a unique technique to prepare ZnO nanocapsules.
- There is a red shift with increasing amount of ZnO nanocapsules in the nanocomposites.
- ZnO –FLC nanocomposites show only one broad peak in the PL spectra.
- The PL emission band of the ZnO nanocomposites can be tuned from shorter to longer wavelength.
- Concerning the fabrication of future devices, there is an enhancement of intensity with little red shift..

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