

## The characteristics (compositions, morphological, and structure) of nanocomposites polyaniline (PANI)/ZnO

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<b>Abstract</b>	In recent years, development of inorganic-organic hybrid materials has been receiving significant attention due to wide range of potential applications and high absorption in visible spectrum. Polyaniline ( PANI) and nanocomposite PANI/ZnO were prepared by interfacial polymerization method of two-phase organic/water. The characteristics ( composition, morphology and structure) of the nanocomposites characterized by Fourier transform infrared spectroscopy ( FTIR), scanning electron microscopy-Energy dispersive X-ray ( SEM-EDX) and UV-Vis diffuse reflectance spectroscopy ( UV-Vis DRS). The characteristic FT-IR peaks of PANI and nanocomposite ( PANI)/ZnO due to formation H-Bonding. UV-Vis characterization showed the presence of electron transitions in PANI compound. The characterization by DRS showed the compound PANI, PANI/ZnO 5% and 10% have an energy value of similar to 2.0 eV band gap. SEM analysis with image-J software showed a decreasing of the particle size due to the increasing content of ZnO.
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