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Preparation and characterization of colloidal ZnO nanoparticles nanosecond laser ablation in water		اسم البحث المنشور
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Pulsed laser ablation in liquid was employed to synthesize zinc oxide (ZnO) nanocolloidal suspension. Colloidal ZnOnanocrystals are synthesized by pulsed laser ablation of high purity zinc target in double distilled water with various laser fluences at RT. UV–visible absorption and transmission electron microscope are used for the characterization of colloidal ZnO nanoparticles (NPs). The optical properties, size, and the morphology of the synthesized ZnO were influenced strongly by laser fluence and wavelength. The use of water gave spherical ZnO NPs with average size 35 nm. The optical band gaps of the ZnO NPs are increased with laser fluence up to 22.3 J/cm^2. .		الملخص Abstract