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Structural studies of metal-doped titania systems using XRD and SEM

Au and Pd doped TiO₂ nanocrystals were prepared using sol-gel routes. Scanning Electron Microscopy (SEM) and X-ray diffraction (XRD) techniques were used to characterize the samples. The effects of dopants on the phase transformation and grain growth were investigated. Gold does not affect the anatase-rutile transformation temperature whereas palladium does.

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