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Physico-Chemical Properties of Various Oxide Nanoparticles Synthesized with Electron Beam Irradiation System

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Various oxide particles are synthesized in an ambient condition using an electron beam irradiation system. The formation of oxide particles is confirmed by FT-IR spectra results and the X-ray photoelectron spectrum. It is also shown that the morphology and size of oxide particles are significantly influenced by the type and flowrate of dilution gas. The energy dispersive X-ray (EDX) analysis also confirms that various oxide particles are synthesized.

Keywords: Oxide nanoparticle, electron beam irradiation system, FT-IR, XPS, EDX