

Mössbauer study of the surface of core-shell type nanoparticles

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Abstract

© 2016, Pleiades Publishing, Ltd. The properties of the surface layer of core-shell nanoparticles incorporated into the matrix of macromolecules of 3,4-bis(decyloxybenzoyl) poly(propylene imine) derivative of the second generation are studied by Mössbauer spectroscopy at low temperatures. The spin states, the details of the phonon spectrum and the Debye temperature of surface layer atoms discussed.

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Keywords

core-shell structure type, Mössbauer spectroscopy, nanoparticles, spin properties