

DESIGN OF MACROMOLECULAR COLLOID PARTICLES

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Abstract

Core and/or core/shell particles are engineered for application for cosmetics and for drug delivery systems. Also are developed to form heavy metal-polymer complexes to remove pollutants from water. The particles are designed as spherical cores and/or core/shell macromolecules. The core/shell morphology gives opportunity to incorporate lipophilic/organophilic or hydrophilic components for cosmetics or for drug delivery systems. The present structures describe hydrophilic, lipophilic and amphiphilic nanoparticles. In the case of metal complexes functional groups are introduced for chelating heavy metals (Pb, Cu, Zn, Cd, etc.)

Keywords: Polymerization, non linear, crosslinked particles