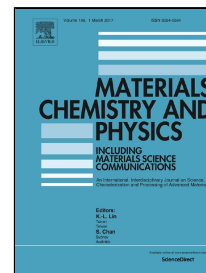


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Mobility Investigations of Magnetic Nanoparticles in Biocomposites

Robert Müller, Mengbo Zhou, Tim Liebert, Joachim Landers, Soma Salamon, Samira Webers, Andrea Dellith, Dmitry Borin, Thomas Heinze, Heiko Wende



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Highlights

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Biocompatible composites of magnetic nanoparticles and meltable dextran ester

Biocomposite can be softened under an induced alternating magnetic field

Mobility investigations of magnetic particles in the molten composites

Optical microscopy shows movement of agglomerates and texturing in the μm scale

AC-susceptometry and Mössbauer spectroscopy reveal Brownian motion of particles

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