

Title (en)

MAGNETIC NANOPARTICLE HAVING FLUORESCENT AND PREPARATION METHOD THEREOF AND USE THEREOF

Title (de)

MAGNETISCHES NANOPARTIKEL MIT FLUORESCENZ SOWIE HERSTELLUNGSVERFAHREN UND VERWENDUNG DAFÜR

Title (fr)

NANOPARTICULES MAGNÉTIQUES PRÉSENTANT UNE FLUORESCENCE, LEUR PROCÉDÉ DE PRÉPARATION ET LEUR UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO2007029980A1] Disclosed herein are magnetic nanoparticles (MNPs) having fluorescence, and preparation and use thereof. The magnetic nanoparticles according to the present invention have both optical and magnetic properties and are therefore applicable to a variety of bio-fields. Via the surface treatment of silica shells of the magnetic nanoparticles with a water-soluble material, a variety of chemical functional groups can be introduced into nano-scale materials. Further, via the use of the thus-chemically modified nano-scale materials, it is possible to increase or decrease the permeability of the magnetic nanoparticles into cells, and it is also possible to impart a selectivity to act only on desired specific cells.

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Citation (search report)

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