Heat-Sensitive Nanoparticle System

Heat-sensitive system comprising at least one nanoparticle able to convert an electromagnetic radiation into thermal energy when said nanoparticle is exposed to an alternating magnetic field, said nanoparticle being bound covalently with at least one thermolabile molecule, said thermolabile molecule being covalently bound with at least one active molecule selected from a fluorophore molecule and a drug, characterised in that said thermolabile molecule comprises an azo -N=N- functional group.

APPLICATIONS
Medical applications, cancer treatment, drug delivery

KEYWORDS
Nanoparticles, iron oxide, ferrites, thermolabile molecule, heat-sensitive

BIBLIOGRAPHIC DATA
Sistema Nanoparticellare Sensibile Al Calore
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