- **Liste complète des publications**

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2. L. Lartigue et *al.* Autocatalytic sonolysis of iron pentacarbonyl in room temperature ionic liquid [BuMeIm][Tf2N] *Phys.Chem. Chem. Phys.* **2011**, *13*, 2111.

3. L. Lartigue et *al.* Water-dispersible sugar-coated iron oxide nanoparticles. An evaluation of their relaxometric and magnetic hyperthermia properties *J. Am.Chem. Soc.* **2011**, *133*,10459.

4. L. Lartigue et *al.* Superspin-glass behavior of Co[Fe(CN)6]2 Prussian blue nanoparticles confined in mesoporous silica *Mater.Chem. Phys.* **2012**, *132*, 438.

5. L. Lartigue et *al.* Nanomagnetic sensing of blood plasma protein interactions with iron oxide nanoparticles: Impact on macrophage uptake *ACS Nano* **2012**, *6*, 2565.

6. P. Guardia et *al.* Water-soluble iron oxide nanocubes with high values of specific absorption rate for cancer cell hyperthermia treatment *ACS Nano* **2012**, *6*, 3080.

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8. P. Hugounenq et *al.* Iron oxide monocrystalline nanoflowers for highly efficient magnetic hyperthermia *J. Phy. Chem. C* **2012**, *116*, 15702.

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10. D. Fayol et *al.* Managing Magnetic Nanoparticle Aggregation and Cellular Uptake: A Precondition for Efficient Stem-Cell Differentiation and MRI Tracking *Adv Healthc. Mater*. **2013**, *2*, 313.

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16. G. Bealle et *al.* Surface decoration of catanionic vesicles with superparamagnetic iron oxide nanoparticles: A model system for triggered release under moderate temperature conditions *Phys. Chem. Chem. Phys.* **2014**, 16, 4077.

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18. R. Di Corato et *al.* Magnetic hyperthermia efficiency in the cellular environment for different nanoparticles design *Biomaterials* **2014**, 35, 6400.

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