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## Hot Topics



## Magnetic Materials

Magnetic phenomena are omnipresent in the modern world. The Nobel prize in Physics (2007) was awarded for studies of giant magnetoresistance to A. Fert and P. discoveries were soon implemented in hard drives (see picture, courtesy of IBM Germany). Learn more about the current research into magnetic materials, basic or applied.



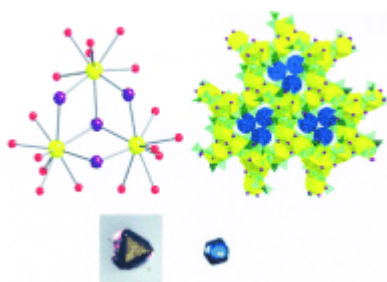
### Recent Articles

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Massimiliano Magro, René Campos, Davide Baratella, Giuseppina Lima, Katerina Holà, Clemens Divoky, Rudolf Stollberger, Ondrej Malina, Claudia Aparicio, Giorgio Zoppellaro, Radek Zbořil, Fabio Vianello

[A Magnetically Drivable Nanovehicle for Curcumin with Antioxidant Capacity and MRI Relaxation Properties](#) [Full Paper]



**Superparamagnetic maghemite** ( $\gamma\text{-Fe}_2\text{O}_3$ , surface-active maghemite nanoparticles; SAMNs) were surface-modified with curcumin molecules. The so-obtained curcumin-modified SAMNs (SAMN@curcumin) were fully characterized. The high negative contrast proclivity of SAMN@curcumin to act as potential contrast agent in MRI screenings was also tested. Moreover, the redox properties of bound curcumin were probed by electrochemistry.

[Chem. Eur. J., July 30, 2014, DOI: 10.1002/chem.201402820](#)

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