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Magnetic Nuclear Spin Lattice Relaxation

There are two different deuteron spin lattice relaxation times: T_{1Z} refers to recovery of Zeeman polarization after an initial perturbation, and T_{1Q} describes the decay of quadrupole order. The ...

Deuteron Spin Relaxation

Recently, a possibility of overcoming the projection noise in magnetometry using the techniques of spin ... has a nuclear magnetic moment about three times smaller, reduces this type of relaxation.

Optical magnetometry

The temperature dependence of the spin

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lattice relaxation rate is attributed to the magnetic excitations at the Weyl nodes and a good agreement with predictions from theory could be found. The ...

Evidence for Weyl fermions by the local nuclear magnetic resonance techniques
He is carrying out experimental EPR research in functional materials in nano-state, e.g. dilute magnetic semiconductors ...
EPR technique to study electron spin-lattice (T1), electron- electron (T2), ...

Sushil K. Misra, PhD

Here, we directly observe the nuclear dynamics accompanying the SEF process in single crystal pentacene using femtosecond electron diffraction. The data reveal coherent atomic motions at 1 THz, ...

Nuclear dynamics of singlet exciton fission in pentacene single crystals

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as well as radioisotope carriers for nuclear medicine. Fullerenes and metallofullerenes are decidedly not water soluble in their native states. Indeed, some of the fullerenes are not soluble even ...

Gadofullerene MRI Contrast Agents

Such electrical addressing of long-lived triplets of single molecules, combined with atomic-scale manipulation, offers previously unexplored routes to control and study local spin-spin interactions.

Atomically resolved single-molecule triplet quenching

(including lattice translation, topology, and perturbative techniques) are introduced as needed. The results are illustrated using arguably the most fascinating class of such systems, high Tc ...

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and Mesoscopic Physics Relaxation in Nmr Of

I joined the University of Sheffield in 2000 to set up the technology for Hyperpolarised gas lung Magnetic Resonance Imaging (MRI). Postdoctoral researcher at the NMR group University of Alberta (1998 ...

Professor Jim Wild

After graduating in Physics from the University of Glasgow (2004-2007), I completed an MSc in Medical Physics at the University of Surrey (2008-2009) and a PhD in Magnetic Resonance Physics at the ...

Dr Graham Norquay

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3). Reactants can be injected into the cavity and the products extracted for further analysis using standard equipment, such as mass spectrometry and nuclear magnetic resonance. Download high-res ...

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