

Special Issue

NMR Characterization of Amorphous and Disordered Materials

Message from the Guest Editor

Nuclear magnetic resonance spectroscopy continues to be a powerful technology for the characterization of materials at the molecular level. The ability to probe nucleus-specific questions, combined with recent improvements in sensitivity, resolution, spin coherence manipulation, quantum chemical calculations, and multivariate/chemometric analysis, render NMR a rich field.

The focus of this Special Issue is to explore these recent NMR advances for the characterization of real-life materials being used in sensing, energy, quantum computing, advanced manufacturing, biomedical, and environmental remediation applications, including self-assembled materials, super-molecular and stimuli-responsive polymers, polymer membranes, composites, MOFS, liquid crystalline polymers, ceramics, glasses, biomaterials, catalyst, and surface-modified nanoparticles. This Issue will offer an overview of some of the exciting opportunities NMR can provide in material characterization.

Guest Editor

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