

Special Issue “Magnetic Resonance in Porous Media”

A selection of contributions presented as posters at the 10th International Bologna Conference Magnetic Resonance in Porous Media (MRPM 10), September 2010, Leipzig, Germany

This special issue of the online journal *Diffusion Fundamentals* contains contributions presented at the 10th International Bologna Conference Magnetic Resonance in Porous Media, held in the University of Leipzig, Germany from 12th to 16th September 2010, at the faculty of Physics and Earth Science. The issue is dedicated to a selection of papers presented as posters and to the invited talk of Jörg Kärger. It furthermore contains the abstracts of all the accepted conference contributions as well. Along with the publication of articles originating from invited talks, tutorials and contributed oral presentations in the *AIP Conference Proceedings* ([volume 1330, 2011](#)) this issue gives an up-to-date documentation of the state of the art and evolution of this discipline.

Conference contributions of the MRPM have been published in a special issue of the online journal *Diffusion Fundamentals* ([volume 5, 2007](#)) the first time after MRPM8 (Bologna, 2006), along with the Conference Proceedings in a special issue of *Magnetic Resonance Imaging* ([volume 25, issue 4, 2007](#)). We continued to publish proceedings originating from the MRPM9 (Cambridge MA, 2008, [volume 10, 2009](#)) along with the *AIP Conference Proceedings* ([volume 1081, 2009](#)). This issue of the online journal *Diffusion Fundamentals*, now as integral part of the conference proceedings accompanying the MRPM conference series, contains a small selection of the numerous posters as represented at the MRPM 10 conference.

The conference was very successful in bringing together experimentally and theoretically working scientists from physics, chemistry, materials science, and industrial research in order to enable an exchange of experience and to discuss current and arising topical problems in an interdisciplinary context.

We would like to thank all the delegates, speakers and sponsors for presenting and sharing their perspectives on topics related to porous materials as well as their investigation by means of magnetic resonance. We also thank the members of the organizing and scientific committees of MRPM10.

The next International Bologna Conference MRPM11 will be organized by Peter MacDonald University of Surrey (UK), from 9th to 13th September 2012. We hope to see all of the participants, in even greater numbers, in Surrey, for an even more successful conference in this interdisciplinary area of great scientific and commercial significance.

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