



# The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging

*Andre S. Merbach, Lothar Helm, Éva Tóth*

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Magnetic Resonance Imaging (MRI) is one of the most important tools in clinical diagnostics and biomedical research. The number of MRI scanners operating around the world is estimated to be approximately 20,000, and the development of contrast agents, currently used in about a third of the 50 million clinical MRI examinations performed every year, has largely contributed to this significant achievement.

This completely revised and extended second edition:

- Includes new chapters on targeted, responsive, PARACEST and nanoparticle MRI contrast agents.
- Covers the basic chemistries, MR physics and the most important techniques used by chemists in the characterization of MRI agents from every angle from synthesis to safety considerations.
- Is written for all of those involved in the development and application of contrast agents in MRI.
- Presented in colour, it provides readers with true representation and easy interpretation of the images.

A word from the Authors:

*Twelve years after the first edition published, we are convinced that the chemistry of MRI agents has a bright future. By assembling all important information on the design principles and functioning of magnetic resonance imaging probes, this book intends to be a useful tool for both experts and newcomers in the field. We hope that it helps inspire further work in order to create more efficient and specific imaging probes that will allow materializing the dream of seeing even deeper and better inside the living organisms.*

*Reviews of the First Edition:*

"...attempts, for the first time, to review the whole spectrum of involved chemical disciplines in this technique..."—Journal of the American Chemical Society

"...well balanced in its scope and attention to detail...a valuable addition to the library of MR scientists..."—NMR in Biomedicine

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