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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	FOREWORD AND ACKNOWLEDGEMENTS; CONTENTS; KEYNOTE; MAGNETIC NANOPARTICLES; MAGNETIC PARTICLE SPECTROMETRY; MAGNETIC PARTICLE IMAGING; IMAGING TECHNOLOGY AND SAFETY ASPECTS; MAGNETO-RELAXOMETRY; MEDICAL APPLICATIONS; SHORT CONTRIBUTIONS; AUTHOR INDEX
Sommario/riassunto	In these proceedings, an overview on recent results of a novel imaging modality based on magnetic nanoparticles is given. This imaging concept, called magnetic particle imaging (MPI), falls into the category of functional imaging and, hence, the magnetic nanoparticles may serve as tracers of metabolic processes. Today, there are interesting challenges within the practical set-up of a scanning device and also in the design of new MPI nanoparticles. During this workshop at the University of Lubeck in 2010, scientists from chemical engineering, biology, electrical engineering, physics, computer s

