

Dr. Elmar Fischer

Contact:

Dr. Elmar Fischer Medical Physics Department of Radiology
University Medical Center Freiburg Breisacher Str. 60a 79106
Freiburg

phone: +49 761 270 93780 fax: +49 761 270 93790 e-mail:
elmar.fischer@uniklinik-freiburg.de

[Research Interests](#)

[Projects](#)

[Publications](#)

[CV](#)

Research Interests

- RF Coil Construction and Modelling
- Parallel Imaging with multi-coil arrays
- MR tests of mini preamplifiers

[Back to top](#)

Projects

- INUMAC
- Multi-Array Coils with Microsystem Technologies
- MR preamplifiers

[Back to top](#)

Publications

Journal articles

- D. Mager, A. Peter, L. Del Tin, E. Fischer, P.J. Smith, J. Henning and J.G. Korvink, An MRI Receiver Coil Produced by Inkjet Printing Directly on to a Flexible Substrate, IEEE Transactions on Medical Imaging, IEEE Trans Med Imaging. 2010 Feb;29(2):482-7
- E. Fischer, W. Fieber, C. Navarro, H. Sommer, D. Benczédi, M. Inés Velazco, M. Schönhoff, Partitioning and Localization of Fragrances in Surfactant Mixed Micelles J. Surf. Det. , 12, 73 (2009)
- E.Fischer, U. Beginn, N. Fatkullin, R. Kimmich, Field-gradient NMR diffusometry in poly(ethylene oxide) melts confined to nanoscopic pores of solid methacrylate matrices, Magn. Reson. Imaging 23, 379-381 (2005)
- C. Mattea, N. Fatkullin, E. Fischer, U. Beginn, E. Anorado, M. Kroutieva, R. Kimmich, The "Corset Effect" of Spin-Lattice Relaxation in Polymer Melts Confined in Nanoporous Media, Appl. Magn. Reson. 27, 371 – 381 (2004)
- N. Fatkullin, E. Fischer, C. Mattea, U. Beginn, R. Kimmich, Polymer dynamics under nanoscopic constraints: The "corset effect" as revealed by NMR relaxometry and diffusometry, ChemPhysChem. 5, 884-894 (2004)
- N. Fatkullin, R. Kimmich, E. Fischer, C. Mattea, U. Beginn, The confined-to-bulk dynamics transition of polymer melts in nanoporous solid matrices with varying pore diameter, N. J. Phys. 6, 46, 1 - 13 (2004)
- E. Fischer, U. Beginn, N. Fatkullin, R. Kimmich, Nanoscopic poly(ethylene oxide) strands embedded in semi-interpenetrating methacrylate networks. Preparation method and quantitative characterization by field-gradient NMR diffusometry, Macromolecules 37, 3277 - 3286 (2004)
- E. Fischer, R. Kimmich, Constant time steady gradient NMR diffusometry using the secondary stimulated echo, J. Magn. Reson. 166, 273 - 279 (2004)
- [Journal articles before 2004](#)

Conference Presentations and Posters (as first author)

- 19th ISMRM Scientific Meeting and Exhibition, Montreal, Canada, 7th - 13th May 2011, Miniaturized two-stage preamplifiers for receive-array coils at 400 MHz, A customized coil arrangement for PatLoc imaging inside a 9.4 T MRI spectrometer, accepted traditional posters
- 17th ISMRM Scientific Meeting and Exhibition, Honolulu, USA, 18th – 24th April 2009, Implementation of a four-channel phased-array coil for PatLoc imaging, traditional poster
- ECIS 2007, 21st Conference of the European Colloid and Interface Society, Geneva, 10-14/09/07 Fragrance partitioning and micellar swelling in a nonionic/anionic surfactant solution, poster
- 7th Conference on Magnetic Resonance in Porous Media, Paris, France, 4-7/7/ 2004, Field-gradient NMR diffusometry in poly(ethylene oxide) melts confined to nanoscopic pores of solid methacrylate matrices, oral presentation + poster
- Transsylvanian Workshop 'Frontiers of Magnetic Resonance Applications to Nano- and Microscopically Structured Systems', P#ltini#, Romania, 25/2 - 1/3/2004, Constant time steady gradient NMR diffusometry using the secondary stimulated echo, oral presentation
- [Presentations and Posters \(as first author\) before 2004](#)

[Back to top](#)

CV

since 10/07	Research Officer, Department of Radiology, University Hospital Freiburg
10/04–09/07	Research Officer, Institute of Physical Chemistry, University of Muenster (Germany), Collaboration with Firmenich SA, Geneva (Switzerland)
01/02–09/04	Research Officer, Division for Nuclear Magnetic Resonance, University of Ulm (Germany)
09/98–03/01	Postdoctoral Research Officer, Institute of Fundamental Sciences, Massey University, Palmerston North (New Zealand), Research Fellowship of German Research Foundation (DFG)
05/98-09/98	Research Associate, Graduate College Molecular Organization and Dynamics at Interfaces, University of Ulm (Germany)
04/1998	Dissertation, Dr. rer. nat., University of Ulm, Germany
10/93–03/98	Research Assistant, Division for Nuclear Magnetic Resonance, University of Ulm (Germany)
09/1993	Physics diploma, University of Ulm, Germany

[Back to top](#)