Publications

diploma

1. Conductivity transients in C_{60} fullerene thin films
T. Unold, C. Meyer and G. H. Bauer
Synthetic Metals **121**, 1179-1180 (2001)

dissertation

2. Concept for Quantum Computing with $N@C_{60}$
W. Harneit, M. Waiblinger, C. Meyer, K. Lips, A. Weidinger
in *Fullerenes for the New Millennium XI*, K.M. Kadish, P.V. Kamat, D. Guldi (eds.), The Electrochemical Society, 358 (Pennington, 2001)

3. Electron Spin Quantum Computing with $N@C_{60}$
C. Meyer, W. Harneit, M. Waiblinger, K. Lips, A. Weidinger
AIP Conference Proceedings **591,** 101-104 (2001)

4. Electron Spin Quantum Computing With Endohedral Fullerenes
W. Harneit, M. Waiblinger, K. Lips, C. Meyer, A. Weidinger, J. Twamley
in *Experimental Implementation of Quantum Computation*, R.G. Clark (ed.), Rinton Press, 38 (Princeton, 2001)

5. Alignment of the Endohedral Fullerenes $N@C_{60}$ and $N@C_{70}$ in a Liquid Crystal Matrix
C. Meyer, W. Harneit, K. Lips, A. Weidinger, P. Jakes, K.P. Dinse
Physical Review A **65**, 061201 (2002)

6. Electron Paramagnetic Resonance Investigation of Endohedral Fullerenes $N@C_{60}$ and $N@C_{70}$ in a Liquid Crystal
P. Jakes, N. Weiden, R.-A. Eichel, A. Gembus, K.-P. Dinse, C. Meyer, W. Harneit, A. Weidinger
Journal of Magnetic Resonance **156**, 303-308 (2002)

7. Architectures for a spin quantum computer based on endohedral fullerenes
W. Harneit, C. Meyer, A. Weidinger, D. Suter, J. Twamley
physica status solidi (b) **233**, 453-461 (2002)

8. Towards a molecular electron spin quantum computer
C. Meyer, W. Harneit, K. Lips, A. Weidinger, P. Jakes, K.P. Dinse
physica status solidi (b) **233**, 462-466 (2002)

9. Purification and Optical Spectroscopy of $N@C_{60}$
P. Jakes, K.-P. Dinse, C. Meyer, W. Harneit, A. Weidinger
PCCP: *Physical Chemistry Chemical Physics* **5**, 4080-4083 (2003)

talks

1. *Spin Quanten Computing*
   SE DoktorandInnen Seminar
   HMI, Oktober 2001
2. *Spin Quanten Computing*
   Hauptvortrag auf der Deutschen Physikerinnentagung
   Dresden, November 2001
3. *Spin Quantum Computing*
   European Graduate College *Interference and Quantum Applications*
   Institute for Quantum Optics, Hannover, Januar 2002
4. *Electron Spin Quantum Computing*
   Graduiertenkolleg *Materialeigenschaften und Konzepte zur Quanteninformationsverarbeitung*
   Universität Dortmund, Februar 2002
5. *Quantencomputing – eine Einführung*
   Seminarvortrag
   Universität Oldenburg, Juli 2002
6. *Quantencomputer – Rechnen mit Atomen*
   Tag der Forschung 2003
   Fachhochschule Harz, Wernigerode, November 2003