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Publications before joining MPI CPFS (1999)

**47. Supraleitende Fullerenverbindungen
/ Superconductivity in Fullerene Compounds**

Michael Baenitz.

Physik in unserer Zeit, vol.30, no. 4, VCH-Verlag (1999) 167-172.

**46. Flux Creep and Pinning Potential in Superconducting Fullerenes Rb_3C_{60}
and K_2RbC_{60}**

N. Sakamoto, T. Muranaka, T. Akune, M. Baenitz, K. Lüders.

-Advances in Superconductivity XI- Springer Verlag, Tokio, Vol. 1 (1999)629-632.

**45. Magnetic Investigations of Hg-based HTSC:
Evidence for different kind of pinning**

C. Ecker, M. Baenitz, K. Lüders, E. S. Otabe, T. Matsushita, H.R. Khan, E.V. Antipov.

-Advances in Superconductivity XI- Springer Verlag, Tokio, Vol.1 (1999) 461-464.

44. NMR Investigations of the bulk metallic glass $Zr_{55}Cu_{30}Al_{10}Ni_5$

W. Hoffmann, M. Baenitz, K. Lüders, A. Gebert, J. Eckert, L. Schultz.

Bulk Metallic Glasses Symposium, Mater. Res. Soc. (1999) 95-100.

43. Flux Creep and Pinning Potential in Superconducting Fullerene Rb_3C_{60}

N.Sakamoto, T.Akune, M.Baenitz, K.Lüders.

Proceedings of the 17th International Cryogenic Engineering Conference ICEC - 17, Bournemouth 14-17 July, Institute of Physics Publishing Bristol and Philadelphia, Eds. D. Dew-Hughes, R.G. Scurlock, J.H.P. Watson, (1998) 563-566.

42. Superconductivity in Fullerene Compounds

Michael Baenitz and Klaus Lüders,

FESTKÖRPERPROBLEME / ADVANCES IN SOLID STATE PHYSICS,

Editor: B.Kramer, Vol. 38, Vieweg (1999) 471 - 483.

41. Nuclear Resonance and Susceptibility Investigations of Hg-based High-Tc Superconductors

K. Lüders, W. Hoffmann, M. Baenitz,

High - Temperature Superconductors and Novel Inorganic Materials - Kluwer Academic Publishers, Eds. G. van Tendeloo, E.V. Antipov, S. N. Putilin (1999) 177-182.

40. Comparative Study of the Irreversibility Line of the (Hg,Pb)-1223 Superconductor

M.Baenitz, C.Ecker, K.Lüders, E.S.Otobe, T.Matsushita, H.R.Khan.
-Advances in Superconductivity X- Springer Verlag, Tokio (1998) 537-540.

39. Irreversibility Field in Hg-1223 Grain Aligned Powders

E.S.Otobe, T.Matsushita, M.Baenitz, C.Ecker, K.Lüders, E.V.Antipov.
-Advances in Superconductivity X- Springer Verlag, Tokio (1998) 541-544.

38. Measurement of Electrical Resistivity without contacts using the ACMS

L.Brinker, M.Baenitz.
The Newsletter from Quantum Design, QUANTUM STATES , Spring 1998, Issue no.7, page 2 (1998)

37. Susceptibility, NMR and STM Investigations of intercalated Fullerenes

K.Lüders, M. Baenitz.
Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials Volume 5, Eds. K.M.Kadisich and R.S.Ruoff (1997) 510-520.

36. Magnetic Properties and NMR Investigations of the Hg-Based Cuprate Hg-1201

W.Hoffmann, M.Baenitz, M.Heinze, K.Lüders, A.A.Gippius, E.V.Antipov.
Physica C 282-287 (1997) 1381-1382

35. Struktur und Transporteigenschaften von Fullerenruß und seinen Derivaten

T.Belz, A.Bauer, M.Baenitz, Th. Braun, Yu.S.Grushko, M.Heinze, D.Herein, M.Kanowski, K.Lüders, N.Pfänder, R.Pues, T.Rühle, Y.Uchida, H.Werner, M.Wohlers, R.Schlögl.
"Anwendungspotential der Fullerene" VDI-TZ Proceedings (1996) 43-46.

34. Fullerenruß: NMR -Untersuchungen und Transporteigenschaften

R.Pues, M.Baenitz, M.Heinze, M.Kanowski, K.Lüders, T.Belz, R.Schlögl.
"Anwendungspotential der Fullerene" VDI-TZ Proceedings (1996) 91-94.

33. Pressure Dependence of Superconductivity in Ba₄C₆₀

G.Sparr, F.Laube, A.Link, F.Steglich, M.Baenitz, K.Lüders, H.Werner, R.Schlögl.
Journal of Low Temperature Physics 105 (1996) 1703-1708.

32. Electronic Properties of Hg-1201 Oxide Superconductors Determined by NMR and STM Investigations

W.Hoffmann, H.Breitzke, M.Baenitz, M.Heinze, K.Lüders, A.A.Gippius, E.V.Antipov, P.Jess, U.Hubler, H.P.Lang, H.-J.Güntherodt.
-Proceedings of the ICEC -16/ICMC-conference-1996,eds. T. Haruyama, T. Mitsui, K. Yamafuji, Elsevier Science Part Vol.3 (1997) 1627-1630.

31. Reversible Fluxoid Motion in Superconducting Fullerene Rb_3C_{60}

N.Sakamoto, Y.Ide, T.Akune, M.Baenitz, K.Lüders.

-Proceedings of the ICEC -16/ICMC-conference-1996, eds. T. Haruyama, T. Mitsui, K. Yamafuji, Elsevier Science Part Vol.3, (1997) 1561-1564.

30. Untersuchung von HTSL-Quecksilberkeramiken $HgBa_2CuO_{4+d}$ mit unterschiedlichem Sauerstoffgehalt d

W.Hoffmann, H.Breitzke, M.Heinze, M.Baenitz, K.Lüders, A.A.Gippius, E.V.Antipov, V.A.Alyoshin,

"Supraleitung und Tieftemperaturtechnik" VDI-TZ Proceedings (1996).

29. Hg- Based Cuprates: Magnetic Properties, NMR and NQR Investigations

M.Baenitz, M.Heinze, W.Hoffmann, K.Lüders, E.V.Antipov.

-Advances in Superconductivity IX- Springer Verlag, Tokio, Part Vol. 1 (1997) 107-110.

28. Magnetic Properties of $HgBa_2CuO_{4+d}$ with varying oxygen content

M.Heinze, M.Baenitz, K.Lüders, A.A.Gippius, D.A.Mikhailova.

Czech. J. Phys. 46 (1996) 1441.

27. Upper Critical Field Study of Alkali-Metal and Ba Doped Fullerenes

M.Heinze, M.Baenitz, K.Lüders, H.Werner, R.Schlögl.

Synthetic Metals 77 (1996) 23-25.

26. Magnetic Properties of Granular Superconductors Rb_3C_{60}

N.Sakamoto, T.Akune, Y.Matsumoto, E.S.Otabe, T.Matsushita, M. Baenitz, K.Lüders.

Jpn. J. Appl. Phys. 34 (1995) L 1267-1270.

25. Third Harmonic AC-Susceptibility in Superconducting Powder

E.S.Otabe, T.Matsushita, M.Heinze, M.Baenitz, K.Lüders.

IEEE Transactions on Applied Superconductivity 5 (1995) 1383.

24. Superconducting Properties of Alkali Metal and Ba- doped C_{60}

M.Baenitz, M.Heinze, K.Lüders, H.Werner, R.Schlögl,

in "Physics and Chemistry of Fullerenes and Derivatives", H. Kuzmany, J. Fink, M. Mehring, S. Roth (eds.) World Scientific, Singapore (1995) 436-439.

23 . Superconductivity in Ba Intercalated C_{60}

M.Kraus, M.Kanowski, M.Baenitz, H.Werner, R.Schlögl, E.-W.Scheidt, H.-M. Vieth, K.Lüders.

Fullerene Science & Technology 3 (1995) 115-125.

22. Superconductivity of Ba Doped C₆₀ - Susceptibility Results and Upper Critical Field

M.Baenitz, M.Heinze, K.Lüders, H.Werner, R.Schlögl, M.Weiden, G.Sparn, F.Steglich.

Solid State Communications 96 (1995) 539.

21. NMR- und Suszeptibilitätsuntersuchungen an Hoch T_c - Supraleitern

M.Baenitz, W.Hoffmann, M.Heinze, M.Kraus, K.Lüders, A.A.Gippius, E.V.Antipov,

in "Supraleitung und Tieftemperaturtechnik", VDI-TZ- Proceedings (1994) 444-447.

20. Electron Tunneling Spectroscopy on Poly- and Single Crystalline Rb₃C₆₀

P.Jess, S.Behler, M.Bernasconi, V.Thommen-Geiser, H.P.Lang, M.Baenitz, K.Lüders, H. -J.Güntherodt.

Physica C 235-240 (1994) 2499-2500.

19. Comparative Study of Superconducting K₂CsC₆₀, Rb₃C₆₀ and Rb₂CsC₆₀

M.Baenitz, M.Heinze, K.Lüders, H.Werner, R.Schlögl.

Physica C 235-240 (1994) 2503-2504.

18. Application of ¹⁹⁹Hg Solid State NMR to Hg-Based HTSC

W.Hoffmann, H.Breitzke, M.Baenitz, M.Heinze, K.Lüders, G.Buntkowsky,

H.H.Limbach, E.V.Antipov, A.A.Gippius, O.Loebich, H.R.Khan, M.Paranthaman, J.R.Thompson.

Physica C 227 (1994) 225.

17 . Susceptibility Study of Site Selective Doped Fullerenes - K₂RbC₆₀, Rb₃C₆₀, K₂CsC₆₀ and Rb₂CsC₆₀

M.Baenitz, M.Heinze, K.Lüders, H.Werner, R.Schlögl.

Mat. Res. Soc. Symp. Proc. 349 (1994) 301-306.

16. Superconductivity of Rb₂CsC₆₀: ac Response and Upper Critical Field

M.Baenitz, M.Heinze, K.Lüders, H.Werner, R.Schlögl.

Solid State Commun. 91 (1994) 337-340.

15. Inter- and Intragrain AC Response of the Granular Superconductors K₃C₆₀ and Rb₃C₆₀

M.Baenitz, M.Heinze, E.Straube, H.Werner, R.Schlögl, V.Thommen, H.-J.Güntherodt, K.Lüders.

Physica C 228 (1994) 181-189.

14. Superconducting Intercalated Fullerenes

-Preparation Routes and Properties-

M.Kraus, M. Baenitz, H.Werner, R.Schlögl, V.Thommen, H.-J.Güntherodt, K.Lüders.

Mol. Cryst. Liq. Cryst. 245 (1994) 339-344.

13. Scanning Tunneling Microscopy Study of Granular Intercalated Fullerenes

H.P.Lang, V.Thommen-Geiser, K.Lüders, M.Kraus, M.Baenitz, H.-J.Güntherodt.

Mol. Cryst. Liq. Cryst. 245 (1994) 289-294.

12. AC-Susceptibility-Investigations of Superconducting Doped Fullerenes A_3C_{60}

M.Baenitz, E.Straube, M.Kraus, H.Werner, R.Schlögl, K.Lüders.

Mol. Cryst. Liq. Cryst. 245 (1994) 327-332.

11. AC Magnetic Response of Fulleride Superconductors

M.Baenitz, E.Straube, M.Kraus, M.Kanowski, H.Werner, R.Schlögl, K. Lüders.

Physica B 194-196 (1994) 2063-2064.

10. Supraleitung dotierter Fullerene

M.Baenitz, E.Straube, M.Kraus, S.Gärtner, H.Werner, R.Schlögl, K.Lüders, in "Jahrestagung der Deutschen Gesellschaft für Materialkunde eV" (1993) 295.

9. Magnetic Investigations of Superconducting Fullerenes

M.Baenitz, E.Straube, M.Kraus, M.Kanowski, H.Werner, R.Schlögl, K. Lüders, in "Electronic Properties of Fullerenes", Springer Series in Solid- State Sciences, Vol. 117, H. Kuzmany, M. Mehring, J. Fink (eds.), (1993) 387-394.

8. AC-Susceptibility and Upper Critical Fields in Rb_3C_{60}

M.Baenitz, E.Straube, S.Gärtner, H.Werner, R.Schlögl, K.Lüders.

Fullerene Science & Technology, 1 (1993) 177-188.

7. Temperature Dependence of Cu-NQR Frequencies and Linewidths of High - T_C - Superconductors

J.Freytag, M.Baenitz, S.Gärtner, H.Rieseemeier, V.Müller, K.Lüders.

Physica C 209 (1993) 59.

6. NMR- und NQR-Untersuchungen verschiedener Hoch T_C - Supraleiter

J.Freytag, E.Straube, M.Baenitz, M.Kanowski, S.Gärtner, V.Müller, K. Lüders, in "Supraleitung und Tieftemperaturtechnik", VDI-TZ- Proceedings (1993) 703-706

5. Superconductivity of C₆₀ compounds

M.Kraus, M.Baenitz, M.Kanowski, E.Straube, E.-W.Scheidt, S.Gärtner, H.M. Vieth, H.Werner, R. Schlögl, W. Krätschmer, K.Lüders.
Applied Superconductivity 1 (1993) 901.

4. Superconducting Properties of Fullerenes Doped with Binary Thallium Alloys

M.Baenitz, M.Kraus, S.Gärtner, H.-M.Vieth, H.Werner, R.Schlögl, W. Krätschmer, M.Kanowski, K.Lüders,
in "Electronic Properties of High-TC - Superconductors", Springer Series in Solid-State Sciences, Vol. 113, H. Kuzmany, M. Mehring, J. Fink (eds.), (1993) 475-481.

3. Fullerenes Doped with Thallium Alloys

M.Kraus, M.Baenitz, S.Gärtner, H.-M.Vieth, H.Werner, R.Schlögl, W.Krätschmer, M.Kanowski, V.Thommen, H.-J.Güntherodt, K.Lüders.
Mat. Res. Soc. Symp. Proc. 270 (1992) 135-139.

2. Investigations on superconducting RbTl_{1.5} - doped fullerenes

M.Kraus, S.Gärtner, M.Baenitz, M.Kanowski, H.M.Vieth, C.T.Simmons, W.Krätschmer, V.Thommen, H.-J.Güntherodt, K.Lüders.
Europhys. Lett. 17 (1992) 419.

1. Evidence for an intrinsic linear term in the thermal conductivity of superconducting YBa₂Cu₃O_{7-d} and Bi₂Sr₂CaCu₂O₈ single crystals

G.Sparn, M.Baenitz, S.Horn, F.Steglich, W.Assmus, T.Wolf, A.Kapitulnik, Z.X.Zhao,
Physica C, 162-164 (1989) 508.