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List of publications and presentations (as of March 18, 2010)

- A. Papers in international journals*
- B. Conference contributions in proceedings volumes*
- C. Book chapters, editorial activity*
- D. Invited talks, conference presentations*
- E. Co-authored conference presentations*
- F. Seminar talks abroad*

A. Papers in international journals

- A-1. Á. Cziráki, B. Fogarassy, **I. Bakonyi**, K. Tompa, T. Bagi and Z. Hegedűs: Investigation of chemically deposited and electrodeposited amorphous Ni-P alloys. *J. Phys. (Paris)* **41**, C8/141-144 (1980); {Report KFKI-1980-34} [IF = 1.253]
- A-2. **I. Bakonyi**, L. Takács and K. Tompa: Dipole-dipole interaction and short-range order in amorphous N-P, Ni-Cu-P, and Ni-P-B alloys. *phys. stat. sol. (b)* **103**, 489-497 (1981); {Report KFKI-1980-37} [IF = 0.890]
- A-3. **I. Bakonyi**, I. Kovács, I. Pócsik: On the field-dependent broadening of NMR lines in paramagnets. *phys. stat. sol. (b)* **114**, 609-614 (1982); {Report KFKI-1982-59} [IF = 0.823]
- A-4. **I. Bakonyi**, P. Panissod, R. Hasegawa: Magnetic properties of a glassy $\text{Ni}_{81.5}\text{B}_{18.5}$ alloy. *J. Appl. Phys.* **53**, 7771-7773 (1982) [IF = 1.740]
- A-5. **I. Bakonyi**, P. Panissod and K. Tompa: Correction of the Knight shift for demagnetizing effects. *phys. stat. sol. (b)* **111**, 59-64 (1982) [IF = 0.823]
- A-6. P. Panissod, **I. Bakonyi**, R. Hasegawa: NMR study of the boron coordination in $\text{Ni}_{100-x}\text{B}_x$ metallic glasses. *J. Magn. Magn. Mater.* **31-34**, 1523-1524 (1983) [IF = 1.208]
- A-7. P. Panissod, **I. Bakonyi**, R. Hasegawa: Local boron environment in $\text{Ni}_{100-x}\text{B}_x$ metallic glasses: an NMR study. *Phys. Rev. B* **28**, 2374-2381 (1983); {Report KFKI-1983-57} [IF = 3.267]
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- A-9. **I. Bakonyi**, E. Tóth-Kádár, P. Horváth, F.I. Tóth: Exchange-coupled magnetic films as models for nonuniform soft magnetic materials. *J. Magn. Magn. Mater.* **41**, 321-323 (1984) [IF = 0.998]
- A-10. **I. Bakonyi**, K.-S. Han, H.E. Schone: ^{51}V NMR of amorphous and crystalline V-Zr alloys. *phys. stat. sol. (b)* **131**, 249-254 (1985) [IF = 0.924]
- A-11. **I. Bakonyi**, L.K. Varga, A. Lovas, E. Tóth-Kádár, A. Sólyom: Magnetization and NMR study of amorphous Ni-P alloys in the paramagnetic concentration range. *J. Magn. Magn. Mater.* **50**, 111-118 (1985) [IF = 1.075]
- A-12. B. Fogarassy, A. Böhönyei, Á. Cziráki, I. Szabó, L. Gránágy, A. Lovas and **I. Bakonyi**: Relaxation study of Ni-P-B metallic glasses. *J. Phys. (Paris)* **46**, C8/473-477 (1985) [IF = 1.181]
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- A-25. **I. Bakonyi**, H. Ebert, W. Socher, J. Voitländer, I. Furó, P. Bánki, A. Lovas, U. Mizutani: Magnetic susceptibility and ^{31}P nuclear magnetic resonance study of the electronic structure of amorphous and crystalline Ni-Cu-P alloys. *Mater. Sci. Eng.* **99**, 301-304 (1988) [IF = 0.669]
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- A-27. L. Mihály, K. Tompa, **I. Bakonyi**, P. Bánki, É. Zsoldos, S. Pekker, G. Oszlányi, Gy. Hutiray: Nuclear magnetic resonance study of ^{205}Tl in multiphase Tl-Ba-Ca-Cu oxide superconductors. *Int. J. Mod. Phys. B* **1**, 1227-1234 (1988) [first year (1993): IF = 1.384]
- A-28. H.E. Schone, H.C. Hoke, A. Johnson, **I. Bakonyi**, K. Tompa, A. Lovas: Nuclear magnetic resonance studies of diffusion of hydrogen in amorphous alloys of the type Ni-Zr-P. *Mater. Sci. Eng.* **97**, 431-435 (1988) [IF = 0.669]
- A-29. K. Tompa, **I. Bakonyi**, P. Bánki, I. Furó, S. Pekker, J. Vandlik, G. Oszlányi, L. Mihály: ^{205}Tl NMR spin echo investigations in multiphase Tl-Ba-Ca-Cu oxide superconductors. *Physica C* **152**, 486-490 (1988); {Report KFKI-1988-23/E} [IF = 0.186]
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- A-33. **I. Bakonyi**, J. Kollár: Temperature-dependence of the Pauli susceptibility in liquid Ni-B-P alloys. *Physica B* **161**, 36-38 (1989) [IF = 2.903]
- A-34. Á. Cziráki, B. Fogarassy, K. Tompa, **I. Bakonyi**, A. Lovas, H.E. Schone: Effect of hydrogen on the microstructure of the amorphous Ni-Zr-P system. *Z. Phys. Chem. N.F.* **163**, 355-360 (1989) [IF = 0.398]
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- A-36. K. Tompa, H.E. Schone, A. Werner, I. Pócsik, P. Bánki, **I. Bakonyi**, G. Konczos, A. Lovas: Proton spin relaxations and diffusion in a $(\text{Ni}_{0.5}\text{Zr}_{0.5})_{0.993}\text{P}_{0.007}\text{H}_{0.83}$ metallic glass. *Z. Phys. Chem. N.F.* **163**, 437-442 (1989) [IF = 0.398]
- A-37. J. Tóth, **I. Bakonyi**, K. Tompa, A. Lovas: Electrical transport studies of glassy Zr-Ni hydrides. *J. Less-Comm. Met.* **155**, 185-191 (1989) [IF = 1.097]
- A-38. **I. Bakonyi**, H. Ebert: On the magnetic susceptibility contributions of Zr metal. *J. Magn. Magn. Mater.* **89**, 350-354 (1990) [IF = 1.485]
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- A-42. E. Tóth-Kádár, **I. Bakonyi**, J. Lóránth, A. Sólyom, L. Pogány, T. Dankházi, J. Tóth, G. Konczos, P. Fodor, H.H. Liebermann: Determination of the phosphorus content in Ni-P alloys. *Plat. Surf. Finish.* **77**, 70-75 (Sep. 1990) [IF = 0.178]
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- A-45. E. Wachtel, **I. Bakonyi**, J. Bahle, N. Willmann, A. Lovas, A. Burgstaller, W. Socher, J. Voithländer, H.H. Liebermann: Magnetic susceptibility and DSC study of the crystallization of melt-quenched Ni-P amorphous alloys. *Mater. Sci. Eng. A* **133**, 196-199 (1991) [IF = 0.921]
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- A-61. **I. Bakonyi**: Electronic properties and atomic structure of (Ti,Zr,Hf)-(Ni,Cu) metallic glasses. *J. Non-Cryst. Sol.* **180**, 131-150 (1995)
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- A-62. **I. Bakonyi**, F. Mehner, M. Rapp, Á. Cziráki, H. Kronmüller and R. Kirchheim: Preparation, structure and physical properties of Fe-, Co- and Ni-rich melt-quenched ribbons containing Zr or Hf. Part I: Preparation details and structural characterization. *Z. Metallkde.* **86**, 619-625 (1995)
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- A-77. Á. Cziráki, V. Pierron-Bohnes, C. Ulhaq-Bouillet, E. Tóth-Kádár, **I. Bakonyi**: A cross-sectional high-resolution transmission electron microscopy study of electrodeposited Ni-Cu/Cu multilayers. *Thin Solid Films* **318**, 239-242 (1998) [IF = 1.019]
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- B-22. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, Á. Cziráki, B. Fogarassy: Electronic transport in nanocrystalline metals: a study of electrodeposited nickel foils. In: G. C. Hadjipanayis, R.W. Siegel (eds.): *Nanophase Materials*. NATO ASI Series E, Vol. 260, Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 423-432 (1994)
- B-23. Á. Cziráki, B. Fogarassy, I. Geröcs, E. Tóth-Kádár, **I. Bakonyi**, I. Groma: Phase transformation of nanostructured $\text{NiP}_x/\text{NiP}_y$ multilayers. In: *Proc. 13th Int. Conf. on Electron Microscopy (Paris, 1994)*. B. Jouffrey and C. Colliex (eds.), Les Editions de Physique, Les Ulis, France, 1994), Vol. 2A, pp. 459-460.

B. Papers in conference proceedings

- B-24. Á. Cziráki, B. Fogarassy, L.K. Varga, **I. Bakonyi**, A. Lovas, K. Tompa, P. Kessler, H. Lichte: Structural changes in a hydrogenated amorphous $Zr_{33}Ni_{67}$ alloy. In: *Proc. 4th European Conf. on Advanced Materials and Processes (EUROMAT), Venice (1995)*, Associazione Italiana di Metallurgia (1995), Symp. F, pp. 293-296.
- B-25. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, T. Tarnóczy, Á. Cziráki: Microstructure, electrical transport and magnetic studies of electrodeposited nanocrystalline Ni, Co and Cu metals. In: *Processing and Properties of Nanocrystalline Materials*. Eds. C. Suryanarayana, J. Singh and F.H. Froes (The Minerals, Metals & Materials Society, Warrendale, Pa., U.S.A., 1996), pp. 465-476.
- B-26. W. Schwarzacher, M. Alper, R. Hart, G. Nabiyouni, **I. Bakonyi** and E. Tóth-Kádár: Electrodeposited magnetic nanostructures. In: *MRS Symp. Proc. Vol. 451, pp. 347-357 (1997)*; Invited paper presented at *Symposium P: "Electrochemical Synthesis and Modification of Materials" held at the Materials Research Society Fall Meeting (Boston, Dec. 2-6, 1996)*
- B-27. Á. Cziráki, **I. Bakonyi**: Common features of the microstructure in the multilayers. In: *Proc. 14th Int. Congress on Electron Microscopy (Cancun, Mexico, 1998)*. Eds. H.A. Calderón Benavides and M. José Yacamán (Institute of Physics Publishing, Bristol and Philadelphia, 1998), Vol. II, pp. 317-318.
- B-28. L. Pogány, I. Varga, C. Hargitai, Z. Fülöp, **I. Bakonyi**: Simulation of the deflection of electron trajectories due to domain magnetization. In: *Proc. 14th Int. Congress on Electron Microscopy (Cancun, Mexico, 1998)*. Eds. H.A. Calderón Benavides and M. José Yacamán (Institute of Physics Publishing, Bristol and Philadelphia, 1998), Vol. I, pp. 167-168.
- B-29. I. Varga, L. Pogány, C. Hargitai, **I. Bakonyi**: Domain wall movement on $Fe_{85}B_{15}$ investigated by stroboscopic SEM. In: *Proc. 14th Int. Congress on Electron Microscopy (Cancun, Mexico, 1998)*. Eds. H.A. Calderón Benavides and M. José Yacamán (Institute of Physics Publishing, Bristol and Philadelphia, 1998), Vol. II, pp. 557-558.
- B-30. **I. Bakonyi**, L. Péter, E. Tóth-Kádár, J. Tóth: Giant magnetoresistance (GMR) in nanoscale metallic multilayers: Achievements and challenges in electrochemistry. In: *Bull. of the Techn. Div. on Fine Plating of the Surface Finishing Society of Japan*, No. 59, pp. 31-40 (2000) [**Invited paper** at the 59th Symp. of the Fine Plating Division (Chuo University, Tokyo, 2000)]
- B-31. J. Gubicza, G. Ribárik, **I. Bakonyi**, T. Ungár: Microstructure of a rapidly quenched nanocrystalline $Hf_{11}Ni_{89}$ alloy from X-ray diffraction. In: *Proc. EUROMAT-2001 Conference* (Rimini, Italy, 2001), on CD-ROM.
- B-32. Dyakova V, Kamenova Tz, Varga LK, **Bakonyi I**, Stojanova L, Russev K, Yankova S; Structural features, thermal and mechanical properties of rapidly solidified amorphous and nanocrystalline cobalt-zirconium alloys of high cobalt content; In: *Proc. 20th Natl. Conf. on Non-Destructive Testing (Sozopol, Bulgaria, 2005)*. *Nauchn. Izv. na NTS po Mashinostroeniya (Bulgaria)* **12**, pp. 299-302 (2005)

B. Papers in conference proceedings

- B-33. **I. Bakonyi**, L. Péter: Progress on electrodeposited multilayer films with giant magnetoresistance (GMR) behaviour: 1993-2004. In: *Proc. 8th Int Symp. on Magnetic Materials, Processes and Devices (206th Electrochemical Society Meeting, Honolulu, Hawaii, U.S.A., 2004)*. Eds. S. Krongelb, C. Bônhote, S. R. Brankovic, Y. Kitamoto, T. Osaka, W. Schwarzacher, and G. Zangari (The Electrochemical Society, Pennington, New Jersey, U.S.A., 2006), ECS PV 2004-23, pp. 227-244.
- B-34. **I. Bakonyi**, L. Péter: Electrodeposited multilayer films with giant magnetoresistance (GMR) behaviour. In: *Proc. Int. Workshop on Nanostructured Materials in Electroplating (Sandanski, Bulgaria, 2006)*. Eds. D. Stoychev, E. Valova, I. Krastev and N. Atanassov (St. Kliment Ohridski University Press, Sofia, 2006), pp. 75-80.

C. Book chapters, editorial activity

- C-1. C. Hargitai, **I. Bakonyi** and T. Kemény (eds.): *Proc. Conf. on Metallic Glasses: Science and Technology (Budapest, 1980)*. (Central Research Institute for Physics, Budapest, 1981). Vols. 1-2.
- C-2. L. Péter and **I. Bakonyi**; Electrodeposition and properties of nanoscale magnetic/non-magnetic metallic multilayer films; Chapter 12 in: *Electrocrystallization in Nanotechnology*; Ed. G. Staikov (Wiley-VCH, Weinheim, Germany, 2007), pp. 242-260.
- C-3. Péter L, **Bakonyi I**; Electrodeposition of magnetic nanostructures. In: *Nanomagnetism and Spintronics: Fabrication, Materials, Characterization and Applications*; Eds.: Nasirpouri F and Nogaret A (World Scientific, Singapore, 2010); Ch. 5, pp. 98-120 ISBN: 978-981-4273-05-3 {<http://www.worldscibooks.com/nanosci/7281.html>}

D. Invited talks, conference presentations

Invited talks

- D-1. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, Á. Cziráki, B. Fogarassy: Electronic transport in nanocrystalline metals: a study of electrodeposited nickel foils. *NATO ASI on Nanophase Materials: Synthesis – Properties – Application (Corfu, Greece, 1993)*
{publication: B-22}
- D-2. **I. Bakonyi**: Electronic transport in nanocrystalline metals: a study of electrodeposited Ni foils. *Nagoya Seminar on Amorphous Metals (University of Nagoya, Japan, 1993)*
- D-3. **I. Bakonyi**: Preparation, microstructure and properties of nanocrystalline metals. *Workshop on Reactivity of Amorphous Alloys (University of Szeged, Hungary, 1995)*
- D-4. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, T. Tarnóczy, Á. Cziráki: Microstructure, electrical transport and magnetic studies of electrodeposited nanocrystalline Ni, Co and Cu metals. *Symposium on Processing and Properties of Nanocrystalline Materials (The Minerals, Metals & Materials Society, Materials Week, Cleveland, Ohio, USA, 1995)*
{publication: B-25}
- D-5. **I. Bakonyi**: Electronic transport (electrical resistivity, thermoelectric power, MR and GMR) in electrodeposited Ni-Cu/Cu multilayers. *44th Symp. of the Fine Plating Division of the Surface Finishing Society of Japan (Chuo University, Tokyo, Japan, 1996)*
- D-6. **I. Bakonyi**, L. Péter, E. Tóth-Kádár, J. Tóth: Giant magnetoresistance (GMR) in nanoscale metallic multilayers: Achievements and challenges in electrochemistry. *59th Symp. of the Fine Plating Division of the Surface Finishing Society of Japan (Chuo University, Tokyo, Japan, 2000)*
{publication: B-30}
- D-7. **I. Bakonyi**: Origin of GMR contributions in electrodeposited multilayers. *1st Int. Workshop on Electrodeposited Nanostructures EDNANO-1 (Res. Inst. for Solid State Physics and Optics, HAS, Budapest, Hungary, 2001)*
- D-8. **I. Bakonyi**, Z. Rolik, K. Kiss-Szabó, Z. Kupay, L. Péter, J. Tóth, L.F. Kiss: Decomposition of the giant magnetoresistance of electrodeposited multilayers into ferromagnetic and superparamagnetic contributions. *2nd Int. Workshop on Electrodeposited Nanostructures EDNANO-2 (Res. Inst. for Solid State Physics and Optics, HAS, Budapest, Hungary, 2002)*
- D-9. **I. Bakonyi**, L. Péter, Z. Rolik, K. Kiss-Szabó, Z. Kupay, E. Tóth-Kádár, Q.X. Liu, J. Tóth and L.F. Kiss: Electrodeposited magnetic/non-magnetic multilayers: specialties and generalities. *Int. Workshop on Nuclear Methods in Studying Thin Films and Heterostructures (Res. Inst. for Particle and Nuclear Physics, HAS, Budapest, Hungary, 2003)*
- D-10. **I. Bakonyi**, Q.X. Liu, L. Péter, J. Tóth, L.F. Kiss: Evolution of giant magnetoresistance with layer thicknesses in electrodeposited Co-Cu/Cu multilayers. *3rd Int. Workshop on Electrodeposited Nanostructures EDNANO-3 (University of Newcastle, U.K., 2004)*
- D-11. **I. Bakonyi**, L. Péter, V. Weihnacht, J. Tóth, L.F. Kiss: Giant magnetoresistance (GMR) in electrodeposited multilayer films: the influence of superparamagnetic regions. *7th Int. Conf. on Physics of Advanced Materials ICPAM-7 (Iasi, Romania, 2004)*
{publication: A-122}
- D-12. **I. Bakonyi**, L. Péter: Recent progress on electrodeposited multilayer films with giant magnetoresistance (GMR) behaviour. *8th Int. Symp. on Magnetic Materials, Processes, and Devices (206th Meeting of the Electrochemical Society, Honolulu, Hawaii, USA, 2004)*
{publication: B-32}

D. Invited talks, conference presentations

- D-13. **I. Bakonyi**: Atomistic aspects of nucleation and layer growth, surface properties, deposition from liquid and gaseous phases. *EU FP6 Marie Curie Training Course MINDE'05: "Micro and Nano Deposition" (2005-2008); 3-hour opening lecture at the first course (Barcelona, Spain, 2005)*
- D-14. **I. Bakonyi** and L. Péter: Giant magnetoresistance (GMR) in (electrodeposited) magnetic nanostructures. *4th International Workshop on Electrodeposited Nanostructures (March 2006, Dresden, Germany)*
- D-15. **I. Bakonyi**, L. Péter: Electrodeposited multilayer films with giant magnetoresistance (GMR) behaviour. *Int. Workshop on Nanostructured Materials by Electroplating (Sandanski, Bulgaria, 2006)*, organized by the EU FP6 Specific Support Action project "NANOPHEN"
{publication: B-33}
- D-16. **Bakonyi I**, Péter L, Liu QX, Kerner Z: Optimization of the deposition parameters of Co-Cu/Cu multilayers and its impact on magnetoresistance. *EAST FORUM 2006 (Schwäbisch Gmünd, Germany, 2006)*
- D-17. **I. Bakonyi**: Magnetic and magnetotransport properties of magnetic nanostructures: decomposition of ferromagnetic and superparamagnetic contributions. *INSA-HAS Workshop on Condensed Matter Research: Magnetic Materials (Hyderabad, India, 2006)*
- D-18. **I. Bakonyi**: Atomistic aspects of nucleation and layer growth: deposition from liquid and gaseous phases. *European Summer School on Magneto-Electrochemistry (Algiers, Algeria, 2007); 2-hour lecture*
- D-19. **I. Bakonyi**, E. Simon, L. Péter, L.F. Kiss, Zs.E. Horváth: Evolution of giant magnetoresistance (GMR) with spacer layer thickness in electrodeposited multilayers. *5th International Workshop on Electrodeposited Nanostructures (2007, Iasi, Romania)*
- D-20. **I. Bakonyi**, L. Péter: Giant magnetoresistance in electrodeposited multilayer films: progress and problems. **Keynote Lecture** at the *2nd Int. Conf. on Functional Nanocoatings (Dresden, 2010)*
- D-21. **I. Bakonyi**, L. Péter: Giant magnetoresistance in (electrodeposited) magnetic nanostructures. *Int. Conf. on Superconductivity and Magnetism ICSM2010 (Antalya, Turkey, 2010)* [see: <http://www.icsm2010.org/category/list-of-accepted-abstracts/>]

Contributed talks

- D-22. **I. Bakonyi**: Magnetization curves of uniaxial materials with shape anisotropy. *3rd Int. Conf. on Soft Magnetic Materials. (Bratislava, Czechoslovakia, 1977)*
{publication: B-2}
- D-23. **I. Bakonyi**, K. Tompa, E. Tóth-Kádár and A. Lovas: NMR linewidth study in amorphous Ni-P and Cu-Ni-P alloys. *Conf. on Amorphous Metallic Materials (Smolenice, Czechoslovakia, 1978)*;
{publication: B-4}
- D-24. **I. Bakonyi**: On the magnetism of nickel-metalloid alloys. *5th Int. Seminar on Magnetism (Berggiesshübel, GDR, 1984)*
{publication: B-9}
- D-25. **I. Bakonyi**, H. Ebert, J. Voitländer and P. Panissod: NMR study of electronic structure fluctuations in metallic glasses. *NATO ASI on Amorphous and Liquid Metals (Passo della Mandola, Italy, 1985)*

D. Invited talks, conference presentations

- D-26. **I. Bakonyi**, H. Ebert, W. Socher and J. Voithländer: Magnetische Eigenschaften und Elektronenstruktur von amorphen Ni-P-B Legierungen. *DPG-Tagung (Freudenstadt, F.R.G., 1986)*
- D-27. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, K. Tompa, A. Lovas, É. Zsoldos: Thermopower study of local hydrogen content in rapidly quenched Zr-Ni ribbons. *Int. Symp. on Metal-Hydrogen Systems: Fundamentals and Applications (Stuttgart, F.R.G., 1988)*
{publication: A-32}
- D-28. **I. Bakonyi**, I. Nagy, E. Tóth-Kádár, M. Hossó, K. Tompa, G. Konczos, A. Lovas: Comparison of the hydrogen absorption process in as-quenched and relaxed $Zr_{50}Ni_{50}$ glassy ribbons. *Int. Symp. on Metal-Hydrogen Systems: Fundamentals and Applications (Banff, Alberta, Canada, 1990)*
{publication: A-43}
- D-29. **I. Bakonyi**, E. Tóth-Kádár, K. Tompa and A. Lovas: Electrical resistivity and thermopower of amorphous alloys of early and late transition metals. *Int. Conf. on the Physics of Transition Metals (Darmstadt, F.R.G., 1992)*
- D-30. Á. Cziráki, Zs. Tonkovic, L. Geröcs, B. Fogarassy, I. Groma, E. Tóth-Kádár, T. Tarnóczy, **I. Bakonyi**: Thermal stability of nanocrystalline nickel electrodeposits: differential scanning calorimetry, transmission electron microscopy and magnetic studies. *8th Int. Conf. on Rapidly Quenched Materials (Sendai, Japan, 1993)*
{publication: A-57}
- D-31. L.F. Kiss, L.K. Varga and **I. Bakonyi**: Magnetic properties of melt-quenched Ni-rich amorphous and bcc Zr-Ni alloys. *Annual Conf. on Magnetism and Magnetic Materials (Philadelphia, Pa., USA, 1995)*
{publication (abstract only): *J. Appl. Phys.* **79**, 4811 (1996)}
- D-32. **I. Bakonyi**, É. Kisdi-Kozsó, Z. Altounian: Atomic volumes and magnetic properties of melt-quenched $(Zr,Hf)_{10}(Fe,Co,Ni)_{90}$ type metastable alloys. *9th Int. Conf. on Rapidly Quenched and Metastable Materials (Bratislava, Slovakia, 1996)*
{publication: A-70}
- D-33. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, T. Tarnóczy and Á. Cziráki: Preparation, structure and properties of electrodeposited nanocrystalline metals. *Gordon Research Conference on Electrodeposition (New London, N.H., USA, 1998)*
- D-34. **I. Bakonyi**, L. Péter, Z. Rolik, K. Kiss-Szabó, Z. Kupay, J. Tóth, L.F. Kiss: Magnetic properties and giant magnetoresistance (GMR) of electrodeposited multilayer films. *2nd Int. Workshop on Amorphous and Nanostructured Magnetic Materials (Iasi, Romania, 2003)*
- D-35. **I. Bakonyi** and L. Péter: Optimization of the electrodeposition conditions of multilayers exhibiting giant magnetoresistance (GMR). *1st Int. Seminar. on Fluid Dynamics and Materials Processing (Algiers, Algeria, 2007)*
- D-36. **I. Bakonyi** and L. Péter: Giant magnetoresistance in (electrodeposited) magnetic nanostructures. *3rd Seeheim Conference on Magnetism (Frankfurt, Germany, 2007)*

Poster presentations

- D-37. **I. Bakonyi**, K. Tompa, E. Tóth-Kádár and A. Lovas: Knight shift and nuclear relaxation times in amorphous Ni-P and Cu-Ni-P alloys. *XXth Congress AMPERE (Tallinn, Estonia, USSR, 1978)*
{publication: B-3}

D. Invited talks, conference presentations

- D-38. **I. Bakonyi**, I. Kovács, A. Lovas, L. Takács, K. Tompa and L. Varga: ^{31}P NMR measurements on rapidly quenched $(\text{Ni}_{1-x}\text{Cu}_x)_{80}\text{P}_{20}$ metallic glasses. *Conf. on Metallic Glasses: Science and Technology (Budapest, Hungary, 1980)*
{publication: B-5}
- D-39. **I. Bakonyi**, I. Kovács, L. Varga, T. Bagi, A. Lovas, E. Tóth-Kádár and K. Tompa: ^{31}P NMR parameters of amorphous Ni-P alloys prepared by different methods. *Conf. on Metallic Glasses: Science and Technology (Budapest, Hungary, 1980)*
{publication: B-6}
- D-40. **I. Bakonyi**, E. Tóth-Kádár, P. Horváth, F.I. Tóth: Exchange-coupled magnetic films as models for nonuniform soft magnetic materials. *6th Conf. on Soft Magnetic Materials (Eger, Hungary, 1983)*
{publication: A-9}
- D-41. **I. Bakonyi**, H. Ebert, J. Voithländer, K. Tompa, A. Lovas, G. Konczos, P. Bánki, H.E. Schone: Magnetization and ^{31}P NMR study of $(\text{Zr}_{0.50}\text{Ni}_{0.50})_{100-x}\text{P}_x$ metallic glasses with $0 \leq x \leq 7$. *Annual Conf. on Magnetism and Magnetic Materials (Baltimore, USA, 1986)*
{publication: A-20}
- D-42. **I. Bakonyi**, H. Ebert, W. Socher, J. Voithländer, I. Furó, P. Bánki, A. Lovas, U. Mizutani: Magnetic susceptibility and ^{31}P nuclear magnetic resonance study of the electronic structure of amorphous and crystalline Ni-Cu-P alloys. *6th Int. Conf. on Rapidly Quenched Materials (Montreal, Canada, 1987)*
{publication: A-25}
- D-43. I. Furó, **I. Bakonyi**, K. Tompa, A. Lovas, I. Heinmaa, M. Alla, E. Lippmaa, H.E. Schone: High resolution solid state nuclear magnetic resonance study of the electronic structure of rapidly quenched alloys. *6th Int. Conf. on Rapidly Quenched Materials (Montreal, Canada, 1987)*
{publication: A-26}
- D-44. E. Wachtel, N. Willmann, J. Bahle, **I. Bakonyi**, A. Lovas, H.H. Liebermann: Magnetic properties of amorphous and liquid Ni-P alloys around 20 at.% P. *International Conference on Magnetism (Paris, France, 1988)*
{publication: A-30}
- D-45. **I. Bakonyi**, P. Bánki, K. Tompa, H. Ebert, W. Socher, J. Voithländer: NMR study of the magnetic properties and electronic structure of amorphous Ni-B-P alloys. *Int. Conf. on Nuclear Methods in Magnetism (Munich, FRG, 1988)*
{publication: A-31}
- D-46. **I. Bakonyi**: Magnetic properties and electronic structure of Ni-B alloys in the amorphous, crystalline and liquid state. *Int. Conf. on Physics of Transition Metals (Kiev, 1988)*
{publication: B-17}
- D-47. E. Wachtel, **I. Bakonyi**, J. Bahle, N. Willmann, A. Lovas, A. Burgstaller, W. Socher, J. Voithländer, H.H. Liebermann: Magnetic susceptibility and DSC study of the crystallization of melt-quenched Ni-P amorphous alloys. *7th Int. Conf. on Rapidly Quenched Materials (Stockholm, Sweden, 1990)*
{publication: A-45}
- D-48. **I. Bakonyi**: Indications for an fcc-like local structure of Zr-Ni type metallic glasses. *8th Int. Conf. on Liquid and Amorphous Metals (Vienna, Austria, 1992)*
- D-49. **I. Bakonyi**, E. Tóth-Kádár, I. Nagy, J. Tóth, K. Tompa, A. Lovas, Á. Cziráki, B. Fogarassy, G. Wiesinger: Hydrogen absorption and hydrogen-induced phase-separation in

D. Invited talks, conference presentations

amorphous $Zr_{50}Ni_{50-x}Cu_x$ alloys. *Int. Symp. on Metal-Hydrogen Systems: Fundamentals and Applications (Uppsala, Sweden, 1992)*

{publication: A-54}

D-50. **I. Bakonyi**, E. Tóth-Kádár, T. Tarnóczi, L.K. Varga, Á. Cziráki, L. Gerócs, B. Fogarassy: Structure and properties of fine-grained electrodeposited nickel. *1st Int. Conf. on Nanostructured Materials (Cancun, Mexico, 1992)*

{publication: A-51}

D-51. L.K. Varga, A. Lovas, **I. Bakonyi**, E. Tóth-Kádár, K. Tompa: Time evolution of H-absorption in Ni-Zr metallic glasses. *Int. Symp. on Metal-Hydrogen Systems: Fundamentals and Applications (Uppsala, Sweden, 1992)*

{publication: A-59}

D-52. Á. Cziráki, B. Fogarassy, G. Van Tendeloo, P. Lamparter, M. Tegze, **I. Bakonyi**: Electron microscopy and X-ray diffraction studies of rapidly quenched Zr-Ni and Hf-Ni ribbons with about 90 at.% Ni. *8th Int. Conf. on Rapidly Quenched Materials (Sendai, Japan, 1993)*

{publication: A-55}

D-53. L.K. Varga, É. Bakos, L.F. Kiss, **I. Bakonyi**: The kinetics of amorphous-nanocrystalline transformation for FINEMET alloy. *8th Int. Conf. on Rapidly Quenched Materials (Sendai, Japan, 1993)*

{publication: A-60}

D-54. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, T. Tarnóczi, L. Pogány, Á. Cziráki and B. Fogarassy: Preparation and characterization of nanocrystalline nickel electrodeposits. *Engineering Foundation Conference on Nanophase Materials (Davos, Switzerland, 1994)*

D-55. Á. Cziráki, I. Gerócs, E. Tóth-Kádár and **I. Bakonyi**: TEM and XRD study of the microstructure of nanocrystalline Ni and Cu prepared by severe plastic deformation and electrodeposition. *2nd Int. Conf. on Nanostructured Materials (Stuttgart, F.R.G., 1994)*

{publication: A-64}

D-56. **I. Bakonyi**, E. Tóth-Kádár, T. Becsei, J. Tóth, T. Tarnóczi, Á. Cziráki, I. Gerócs, G. Nabyouni, W. Schwarzacher: Giant magnetoresistance in self-supporting electrodeposited Ni-Cu/Cu multilayers. *2nd Int. Symp. on Metallic Multilayers (Cambridge, U.K., 1995)*

{publication: A-68}

D-57. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, Á. Cziráki, B. Arnold, M. Reibold, K. Wetzig, A. Dinia, V. Pierron-Bohnes: Giant magnetoresistance and microstructure of electrodeposited Ni-Cu/Cu multilayers. *187th WE-Heraeus-Seminar: Spinabhängiger Transport (Physikzentrum Bad-Honnef, F.R. Germany, 1998)*

D-58. **I. Bakonyi**, E. Tóth-Kádár, J. Tóth, T. Becsei, T. Tarnóczi, P. Kamasa: Magnetic and electrical transport properties of electrodeposited Ni-Cu alloys and $Ni_{81}Cu_{19}/Cu$ multilayers. *3rd Int. Symp. on Metallic Multilayers (Vancouver, Canada, 1998)*

{publication: A-82}

D-59. J. Tóth, L.F. Kiss, E. Tóth-Kádár, A. Dinia, V. Pierron-Bohnes, **I. Bakonyi**: Giant magnetoresistance and magnetic properties of electrodeposited $Ni_{81}Cu_{19}/Cu$ multilayers. *3rd Int. Symp. on Metallic Multilayers (Vancouver, Canada, 1998)*

{publication: A-90}

D-60. **I. Bakonyi**, J. Tóth, L.F. Kiss, E. Tóth-Kádár, A. Dinia, V. Pierron-Bohnes: Superparamagnetism at the interfaces of magnetic/nonmagnetic multilayers as revealed by the temperature dependence of GMR. *Int. Conf. on Frontiers in Magnetism (Stockholm, Sweden, 1999)*

D. Invited talks, conference presentations

- D-61. **I. Bakonyi**, J. Tóth, L.F. Kiss, E. Tóth-Kádár, A. Dinia, V. Pierron-Bohnes: Paramagnetic and superparamagnetic moments at the interfaces of magnetic/non-magnetic multilayers as revealed by the temperature dependence of GMR. *Gordon Research Conference on Magnetic Nanostructures (Ventura, Ca., U.S.A., 2000)*
- D-62. Á. Cziráki, F. Zhou, R. Lück, K. Lu, A. Lovas, **I. Bakonyi**: Formation and microstructure of nanocrystalline phases in Ni-rich melt-quenched Zr-Ni alloys. *5th Int. Conf. on Nanostructured Materials (Sendai, Japan, 2000)*
{publication: A-93}
- D-63. V. Weihnacht, L. Péter, J. Tóth, J. Pádár, Zs. Kerner, C.M. Schneider and **I. Bakonyi**: Influence of electrodeposition conditions on the giant magnetoresistance (GMR) of Co(Cu)/Cu multilayers. *Gordon Research Conference on Magnetic Nanostructures (Il Cocco, Italy, 2002)*
- D-64. **I. Bakonyi** and L. Péter: Giant magnetoresistance (GMR) in (electrodeposited) magnetic nanostructures: The role of superparamagnetic regions. *Gordon Research Conference on Magnetic Nanostructures (Oxford, England, 2006)*.

E. Co-authored conference presentations

(presenting author underlined) Co-authored invited talks

- E-1. I. Furó, L. Mihály, **I. Bakonyi**, K. Tompa, I. Heinmaa, E. Joon, E. Lippmaa: NMR and NQR studies on high-Tc superconductors: $^{63,65}\text{Cu}$ and ^{205}Tl spectroscopies. *10th AMPERE Summer School and Symposium "Magnetic Resonance and Relaxation. New Fields and Techniques" (Portoroz, Yugoslavia 1988)*
{publication: B-14}
- E-2. W. Schwarzacher, M. Alper, R. Hart, G. Nabiyouni, **I. Bakonyi** and E. Tóth-Kádár: Electrodeposited magnetic nanostructures. *Symposium P: "Electrochemical Synthesis and Modification of Materials" (Materials Research Society Fall Meeting, Boston, Ma., USA, 1996)*
{publication: B-26}
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- F-12. Magnetische Eigenschaften und Elektronenstruktur von Nickel-Metalloid-Legierungen. *Institut für Physikalische Chemie, Universität München, Germany, May 7, 1985*
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- F-19. Electronic density of states of early-late transition metal amorphous alloys. *Department of Physics, McGill University, Montreal, Canada, Dec. 1991*
- F-20. Elektronenstruktur und atomare Anordnung in TE-TL amorphen Legierungen. *Institut für Physik, Max-Planck-Institut für Metallforschung, Stuttgart, Germany, May 1992*

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- F-21. Electronic properties and atomic structure of TE-TL amorphous alloys. *Université de Fribourg, Switzerland, March 1994*
- F-22. Metastable phases of TL-rich melt-quenched (Zr,Hf)-TL alloys with TL = Fe, Co, Ni. *National Institute of Standards and Technology, Gaithersburg, Md., USA, Nov. 1995*
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- F-37. Giant magnetoresistance in electrodeposited Ni-Cu/Cu multilayers. *Department of Crystalline Materials Science, Nagoya University, Japan, Oct. 2000*
- F-38. Giant magnetoresistance (GMR) in electrodeposited multilayer films: the influence of superparamagnetic (SPM) regions. *Department of Physics, Universidad Autonoma de Barcelona, Spain, May 2005*

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- F-39. Recent progress on electrodeposited multilayer films with giant magnetoresistance (GMR) behaviour. *Leibniz Institute for Solid State and Materials Research (IFW Dresden, Germany, Nov. 2005)*
- F-40. Recent progress on electrodeposited multilayer films with giant magnetoresistance (GMR) behaviour. *Forschungszentrum Rossendorf, Germany, Nov. 2005*
- F-41. Atomic volumes and local structure of metallic glasses. *Institute of Metal Science, Bulgarian Academy of Sciences (Sofia, Bulgaria, March 2006)*
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