



RNDr. Marian Mihalik, CSc.

Institute of Experimental Physics of the Slovak Academy of Sciences, Watsonova 47, 040 01 Košice, Slovakia

Phone.: +421 55 7922250

E-mail: mihalik@saske.sk

Current position(s):

Senior Researcher

Head of the Technological Laboratory, PROMATECH

Profile:

Dr. Marian Mihalik is the experimental physicist, scientist and scientific manager with an international reputation in the field of functional magnetic materials, prepared in the form of nanopowders, polycrystalline samples and single crystals. Since 1991 he spent a number of years at the world leading research institutions on post doc position or as regular scientist (University of Amsterdam, Fridrich Shiller University in Jena and Hokkaido University Sapporo and was awarded by JSPS Fellowship. Publications: over 165, cca 680 citations in the field of solid state physic and material sciences. He is a member of Slovak Physical Society. He has supervised 5 PhD students. Currently is supervising 1 Ph.D. student. Main Awards: Slovak Academy of Sciences awards for popularization of Science and Medal of Charles University, Prague.

Experience:

1980 – Institute of Experimental Physics of the Slovak Academy of Sciences

1998 – Senior Researcher

2009 – Head of Technological Laboratory

2008 – 2009 Head of Department of Magnetism

2001 – 2002 Senior Resercher, Fridrich Shiller University in Jena

1998 a visiting stay, University of Amsterdam (3 months)

1996 “The JSPS Invitation Fellowship Program for Research in Japan”, (Hokkaido University Sapporo)

1995 a visiting stay, University of Amsterdam (3 months);

1994 a visiting stay, University of Amsterdam (3 months);

1992 – 1993 a post-doc stay, Van der Waals-Zeeman Institute, University of Amsterdam

Organisation of Scientific Meetings:

- organization of international conferences EMMA 1993 Košice, CSMAG (1988, 1995, 1998, 2001, 2004, 2007), 41 JdA conference (2012); member of advisory committee EHPRG conference (2006), editor of more than 10 Proceedings from International conferences.

Projects:

1. Research Centre for Advanced Materials and Technologies "**PROMATECH**", ASFEU 26220220186, 2013-2015 – Head of Technological Laboratory
2. Center for Advanced Physical Studies of Materials in Extreme Conditions, **EXTREM**, ASFEU ITMS: 26220120005 Activity: 1.2. Implementation of monocrystalline sample preparation technology, responsible investigator (2009-2011)
3. Completing the Center for Advanced Physics Studies of Materials under Extreme Conditions, **EXTREM II**, ASFEU, ITMS: 26220120047 Activity: 1.2. Implementation of Floating Zone Melt Method for Preparation of Monocrystals of Progressive Materials, Responsible Investigator (2010-2013)

4. Educational Physical Center IEP SAS, **EDUFYCE**, ASFEU: ITMS: 26110230034, Activity: 2.1. Transfer of knowledge through specialized specialized courses and regular IEP Autumn School, responsible researcher (2010-2013).
5. Magneto Structural correlations in unconventional magnetic materials, APVV-20-005204 (2005-2007)

Five representative publications:

Researcher ID S-9372-2017 (Web of Science Core Collection)

Author ID:57201564884 (SCOPUS)

1. Mihalik M., Mihalik Jr. M., Zentková M., Uhlířová K., Kratochvílová M., Roupcová P., Magneto-crystalline anisotropy of NdFe_{0.9}Mn_{0.1}O₃ single crystal, *Physica B: Condensed Matter*, 536 (2018) 92.
2. Mihalik Jr. M., Mihalik M., Hoser A., Pajeroski D.M., Kriegner D., Legut D., Lebecki K. M., Vavra M., Fitta M., Meisel M. W., Magnetic structure of the mixed antiferromagnet NdMn_{0.8}Fe_{0.2}O₃, *Physical Review B* 96 (2017) 134430.
3. Mihalik Jr. M., Jagličić Z., Fitta M., Kavečanský V., Csach K., Budziak A., Briančin J., Zentková M., Mihalik M., Structural and magnetic study of PrMn_{1-x}Fe_xO₃ compounds, *Journal of Alloys and Compounds* 687 (2016) 652.
4. Mihalik Jr., M., Mařaš S., Vavra, M., Briančin, J., Mihalik, M., Fitta M., Kavečanský V., Kopeček J., Preparation of NdMn_{1-x}Fe_xO_{3+δ} single crystals - Effect of preparation atmosphere and iron doping, *Journal of Crystal Growth* 401 (2014) 605.
5. Mihalik Jr., M., Mihalik, M., Fitta, M., Bařanda, M., Vavra, M., Gabáni, S., Zentková, M., Briančin, J., Magnetic properties of NdMn_{1-x}Fe_xO_{3+δ} (0 ≤ x ≤ 0.3) system, *Journal of Magnetism and Magnetic Materials*, 345 (2013) 125–133.

Patents:

Fellowships / Awards / Memberships of Scientific Societies:

- 1996 - The JSPS Invitation Fellowship Program for Research in Japan, (Hokkaido University Sapporo);
- 1998 - Medal of Charles University, Prague, Czech Republic;
- 2014 - Award of Slovak Academy of Sciences for popularization of Science;
- 2011 - Award of Slovak Academy of Sciences for popularization of Science;
- 2000 - member of Slovak Physical Society (SPS).