Name

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Contacting Information

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Short CV

1984 Bachelor's degree in department of Physics, Kyoto University
1993 Dr. degree of Physics in department of Physics, Osaka University
1991-1995 Research Associate at Institute for Solid State Physics, University of Tokyo, 1995-2001 Associate Professor at Institute for Material Research, Tohoku University, 2001-2004 Professor at Department of Physics, Okayama University
2004-present Professor at Institute for Material Research, Tohoku University
Steering committee member of Center for Integrated Nano-Technology Support(CINTS)
2009- 華中科学技術大学客員教授
2010-Director of International collaboration center of IMR

Research interests and activities

Study of quantum magnetism in wide range such as low-dimensional quantum spin systems, strongly correlated electron system and molecular magnets
High magnetic field and high frequency THz-electron spin resonance in magnetic compounds
X-ray and neutron scatterings in high magnetic field, study of field induced phase transitions
Project leader of Grant-in-Aid for Scientific Research on priority Areas “High Field Spin Science in 100T” (2005-2009).

Home-page and Link to research data base

http://www.hfpm.imr.tohoku.ac.jp/
http://db.tohoku.ac.jp/whois/e_detail/3e712acc11b993d55d8579e6eef832df.html

Major publication

Universal Magnetic Structure of the Half-Magnetization Phase in Cr-Based Spinels.[Phys. Rev. Lett.,104(2010),047201-1-4

Observation of a half step magnetization in the Cu3-type triangular spin ring.[Phys. Rev. Lett., 96,(2006), 107202-1-4]

High field X-ray diffraction study on a magnetic-field-induced valence transition in $YbInCu_4$.[J. Phys. Soc. Jpn.,75(2), (2006), 1-5

Oximate-Bridged Trinuclear Dy-Cu-Dy Complex Behaving as a Single-Molecule Magnet and Its Mechanistic Investigation.[J. Am. Chem. Soc.,128(5),(2006),1440-1441]

ESR study on the excited state energy spectrum of $SrCu_2(BO_3)_2$ - A central role of multiple-triplet bound states.[J. Phys. Soc. Jpn.,72(12),(2003),3243-3253]

Two ferromagnetic phases in $La_{0.88}Sr_{0.12}MnO_3$.[Phys. Rev. B,60,(1999),4142-4148]

Present international collaborations

Argonne National Laboratory, X-ray experiments in high magnetic field
OakRidge National Laboratory, Neutron diffraction in high magnetic field
Hozon University of Science and Technology, High Magnetic Field Science
University at Bielefeld, Molecular Magnetism
Ames Laboratory, Molecular Magnetism
Macmaster University, Physics of frustrated magnet