

The 6th Symposium for the Core Research Clusters for Materials Science and Spintronics, and the 5th Symposium on International Joint Graduate Program in Materials Science

Outline

Tohoku University was named one of the first three Designated National Universities in Japan on June 30, 2017 by the Japanese Government. As a Designated National University, we initiated the "Core Research Clusters" to strengthen four research fields: materials science, spintronics, next-generation medical care and disaster science. Also, International Joint Graduate Program in Materials Science aims to cultivate internationally capable and highly creative professionals in the materials science field. We have presented distinguished achievements so far. Therefore, we would like to hold, continuing from past years, the symposium on the research fields of Materials Science and Spintronics to show our research results and discuss future prospects.



Plenary Speakers



Prof. Manfred Fiebig
ETH Zurich
"Recent Progress in the
Visualization of Magnetic
Domains"



Prof. Thomas Schäpers
Forschungszentrum Jülich
"Topological-Insulator-
Superconductor Networks"



Prof. Roder Valentí
Goethe Univ. Frankfurt
"Strategies to Design
Quantum Materials
with Exotic Properties"



Prof. Jian-Wei Yeh
National Tsing Hua Univ.
"High-Entropy Materials
Technology"

Contact

Symposium secretariat, Tohoku University 2-1-1 Katahira, Aoba-ku, Sendai 980-8577, JAPAN

crcms-sp-gpms2022@grp.tohoku.ac.jp

Venue (Hybrid)

Online and Science Campus Hall (Aoba-yama Campus)

Registration & Information

<https://confit.atlas.jp/guide/event/crcgpms2022/top>

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Co-host

Global Institute for Materials Research Tohoku, Institute for Materials Research, Tohoku University

10.24 Mon ▶ 10.27 Thu, 2022

International Symposium

Spintronics Materials Research Society Symposium Proceedings

J Spring



Spintronics Materials Research Society Symposium Proceedings:

Spintronics Alain Schuhl, Symposium Spintronics (2005, Strasbourg), 2005 **Spintronics**, 2002 *Index of Conference Proceedings* British Library. Document Supply Centre, 2003 *Novel Materials and Devices for Spintronics* Materials Research Society. Meeting Symposium FF., 2009 *Forthcoming Books* Rose Army, 2002-04 **Spintronics** Tomasz Dietl, David D. Awschalom, Maria Kaminska, Hideo Ohno, 2009-02-12 This new volume focuses on a new exciting field of research Spintronics the area also known as spin based electronics The ultimate aim of researchers in this area is to develop new devices that exploit the spin of an electron instead of or in addition to its electronic charge In recent years many groups worldwide have devoted huge efforts to research of spintronic materials from their technology through characterization to modeling The resultant explosion of papers in this field and the solid scientific results achieved justify the publication of this volume Its goal is to summarize the current level of understanding and to highlight some key results and milestones that have been achieved to date Semiconductor spintronics is expected to lead to a new generation of transistors lasers and integrated magnetic sensors that can be used to create ultra low power high speed memory logic and photonic devices In addition development of novel devices such as spin polarized light emitters spin field effect transistors integrated sensors and high temperature electronics is anticipated Spintronics has emerged as one of the fastest growing areas of research This text presents an in depth examination of the most recent technological spintronic developments Includes contributions from leading scholars and industry experts *Rare Earth and Transition Metal Doping of Semiconductor Materials* Volkmar Dierolf, Ian Ferguson, John M Zavada, 2016-01-23 Rare Earth and Transition Metal Doping of Semiconductor Material explores traditional semiconductor devices that are based on control of the electron s electric charge This book looks at the semiconductor materials used for spintronics applications in particular focusing on wide band gap semiconductors doped with transition metals and rare earths These materials are of particular commercial interest because their spin can be controlled at room temperature a clear opposition to the most previous research on Gallium Arsenide which allowed for control of spins at supercold temperatures Part One of the book explains the theory of magnetism in semiconductors while Part Two covers the growth of semiconductors for spintronics Finally Part Three looks at the characterization and properties of semiconductors for spintronics with Part Four exploring the devices and the future direction of spintronics Examines materials which are of commercial interest for producing smaller faster and more power efficient computers and other devices Analyzes the theory behind magnetism in semiconductors and the growth of semiconductors for spintronics Details the properties of semiconductors for spintronics From Nanostructures to Nanosensing Applications Arnaldo D'Amico, A. Paoletti, Giuseppe Balestrino, Società italiana di fisica, 2005 Provides the possibility of reviewing and updating some features of nanostructures for understanding their scientific foundations in order to put a firm basis for future developments This book provides an effective approach as they require a strict interaction

between Science and Technology leading to a high degree of cross fertilization **Proceedings of 14th International Conference on Nanomaterials and Nanotechnology 2017** ConferenceSeries,2017-03-24 March 30 31 2017 Madrid Spain
Key Topics Nano Particles Nano Electronic devices Nano Scale Materials Scope of Nanomaterials Nanomaterials characterisation and synthesis Nanozymes Nanomaterials manufacturing technologies Nano Structures Nanomaterials Safety and regulations Materiomics Insilico nanostructure modelling Applications of Nanomaterials Characterization and properties of Nanomaterials Advanced Nanomaterials Nanotech products Nanodevices and Systems Nanomedical Devices Nanotechnology applications Biomedical Nanomaterials **Proceedings of the 8th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-8)** FernD.S. Marquis,2017-03-21 PRICM 8 features the most prominent and largest scale interactions in advanced materials and processing in the Pacific Rim region The conference is unique in its intrinsic nature and architecture which crosses many traditional discipline and cultural boundaries This is a comprehensive collection of papers from the 15 symposia presented at this event

Decoding **Spintronics Materials Research Society Symposium Proceedings**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Spintronics Materials Research Society Symposium Proceedings**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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