



9th International Workshop on Materials Analysis and Processing in Magnetic Fields December 11-14, 2023, Japan

The 9th International Workshop on Materials Analysis and Processing in Magnetic Fields, MAP9, will take place in Miyazaki, Kyushu, Japan, from December 11-14, 2023. This series of workshop succeeded in Grenoble (2018), Providence (2016), Okinawa (2014), Grenoble-Autrans (2012), Atlanta (2010), Tokyo (2008), Grenoble (2006) and Tallahassee (2004).

The workshop aims to discuss recent advances of research on the magnetic field interactions involved in the study of materials properties and processing. Fundamental investigations as well as industrial applications will be discussed. Both oral and poster sessions will be scheduled.

Venue: Miyazaki

Chair: Hideyuki Yasuda (Kyoto, Japan)
Noriyuki Hirota (Tsukuba, Japan)

Website:

<https://www.sci.kagoshima-u.ac.jp/koyama/map9/Welcome.html>



Topics:

Magnetic force

separation, levitation, magneto-Archimedes, control of processes, etc.

Lorentz force and Magneto-hydrodynamic-effect

chiral, magneto-electrochemical processing, etc.

Thermodynamics

phase transition, crystallization, diffusion, processing, etc.

Orientation

pseudo single crystal, liquid crystal, texturing, etc.

Analytical technique

magnetic resonance, sensing, magnetic nano particles, etc.

Separation technique

condensation, purification, recycle, etc.

Spin chemistry and Photophysics

photochemical reaction, magneto-optical effect, polarization, etc.

Biological phenomena

enzymatic reaction, micro organism, vital system, etc.

Magnetic fields generation

rotational field, gradient field, magneto circuit, etc.

Other phenomena related to magnetism or magnetic fields



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