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Major Research Achievements

- Explore novel hydrogen storage materials (NH_3 ; LOHC, CH_3OH , $\text{HCO}_2\text{H}/\text{HCO}_2\text{M}$, etc)
- Develop highly active and durable catalysts for hydrogen storage and/or release
- Technology Transfer for NH_3 Dehydrogenation Catalysts
- Integrate H_2 storage-release systems applicable to fuel cells
- Head for Center for LOHC Basic Research

Research Interests

- Inorganic and Materials Chemistry & Catalysis for H_2 Storage and Carbon-Neutral Technology
- Chemical and Electrochemical Hydrogen Storage, Conversion, and Production
- Surface Catalysis Chemistry
- Direct Fuel Cells with Different Fuels

Applicable Areas in Industry

- Design Innovative Hydrogen Storage Materials
- Organic and Inorganic Materials for Hydrogen Storage
- Design Homogeneous and Heterogeneous Catalysts for (De)Hydrogenation Reactions

