

# 2026 IMR-JBNU-KIST Joint Symposium

**Date** January 27, 2026

**Venue** IMR Auditorium hall, Institute for Materials Research, Tohoku University, Sendai, Japan

## Organizers

Institute for Materials Research, Tohoku University

Jeonbuk National University

Korea Institute of Science and Technology

## Program – Tuesday, January 27, 2026

	09:00 – 09:20	<b>Prof. Takahiko Sasaki</b> (Director at Institute for Materials Research, Tohoku University)	
		<b>Prof. Man Young Kim</b> (Dean of Engineering at Jeonbuk National University)	Greeting
Session1	09:20 – 09:40	<b>Prof. Changwoo Nam</b> Jeonbuk National University	Advanced layered nanocomposites with controllable aligned channels for efficient solar-driven desalination
	09:40 – 10:00	<b>Prof. Gunwoo Kim</b> Jeonbuk National University	Meta-composites and Meta-fabric
	10:00 – 10:20	<b>Prof. Norihiko L. Okamoto</b> Institute for Materials Research, Tohoku University	Layered Manganese Dioxide as a Heat-Storage Material Utilizing Environmental Water Vapor
	10:20 – 10:40	<b>Prof. Kwang-Un Jeong</b> Jeonbuk National University	Advanced Materials by Controlling Hierarchical Nanostructures of Programmed Molecules
	10:40 – 11:00	Break time	
Session2	11:00 – 11:20	<b>Prof. Seongseop Kim</b> Jeonbuk National University	Designing Mesoporous Inorganic Materials through Spinodal Decomposition-Directed Morphology Control
	11:20 – 11:40	<b>Prof. Wataru Kosaka</b> Institute for Materials Research, Tohoku University	CO <sub>2</sub> -actuated Control of Fe(II) Spin Crossover in a Hofmann-type Metal-Organic Framework
	11:40 – 12:00	<b>Prof. Hyun-Je Song</b> Jeonbuk National University	Reasoning with Large Language Models in Materials Research
	12:00 – 13:40	Break time	
Session3	13:40 – 14:00	<b>Prof. Chang Kyu Jeong</b> Jeonbuk National University	New Dielectric Capacitors with Pyrochlore Oxides
	14:00 – 14:20	<b>Prof. Takeshi Seki</b> Institute for Materials Research, Tohoku University	Spin-Orbit Torque Operation in Synthetic Antiferromagnets
	14:20 – 14:40	<b>Prof. Tae-Wook Kim</b> Jeonbuk National University	Synthesis and assembly of single-crystalline 2D metal nanosheets for conductive film applications
	14:40 – 15:00	<b>Prof. Min-Suk Oh</b> Jeonbuk National University	Engineering and Scientific Perspectives on Coatings, Surface Engineering, and Processing for Next-Generation Steel Technologies
	15:00 – 15:20	Break time	
Session4	15:20 – 15:40	<b>Dr. Wonjin Na</b> Korea Institute of Science and Technology	Structural Integrity Evaluation of Composite Materials using Nondestructive Testing
	15:40 – 16:00	<b>Prof. Yoshinori Onose</b> Institute for Materials Research, Tohoku University	Chirality control and detection in metallic helimagnets
	16:00 – 16:20	<b>Dr. Sook Young Moon</b> Korea Institute of Science and Technology	Design and manufacturing strategies for Ultra-Light Hybrid Composites in Extreme Environments
	16:20 – 16:40	<b>Dr. Seok Hoon Ahn</b> Korea Institute of Science and Technology	Functional Composites for Neutron Shielding Applications through Functionalization of Boron Nitride Nanotubes
	18:00 –	(Night) reception	

