

List of accepted proposals of IMaSS  
Joint Usage / Joint Research Program ( International Collaboration ) in FY2026

2026年度名古屋大学未来材料・システム研究所  
共同利用・共同研究(国際共同研究) 採択一覧

Reference No. 整理番号	Principal investigator 研究代表者	Affiliation 所属機関	Project title 研究課題名
1 2026-2-001	Shinichiro Sato 佐藤真一郎	National Institutes for Quantum Science and Technology 量子科学技術研究開発機構	Real-time monitoring of AlGaN/GaN-HEMT using novel quantum sensors 新規量子センサーを用いたAlGaN/GaN-HEMTのリアルタイムモニタリング
2 2026-2-002	Shanmugam Sankaran	Indian Institute of Technology Madras	Elucidation of Point-Defect Formation and Recovery Mechanisms in SiC via High-Energy Ion Implantation 高エネルギーイオン注入によるSiCの点欠陥の形成・回復機構の解明
3 2026-2-003	Atul Srivastava	Indian Institute of Technology Bombay	Aerodynamic Levitation Growth of Bulk Anatase Crystals Guided by In-situ Synchrotron Observation 放射光その場観察で実現するガスジェット浮遊法によるアナターゼ単結晶の育成
4 2026-2-004	Yun Ji Shin	Semiconductor Materials Center	Dislocation Behavior and Residual Stress Relaxation in SiC Substrates during Thermal Annealing 熱アニールによるSiC基板中の転位の挙動と残留応力緩和機構の解明
5 2026-2-005	Park Jun-Seok	Kookmin University	International Joint Research on Establishing Defect-Formation Processes and Comprehensive Physical Property Analysis of Quantum-Memory Candidate Centers in 2H-Si 2H-Siにおける量子メモリ候補欠陥の創製プロセス確立と物性解明に関する国際共同研究
6 2026-2-006	Manel Errando	Washington University in St. Louis	Development of compact scintillating fiber tracking detector for cosmic-ray imaging. 宇宙線イメージングのためのコンパクトシンチレーティングファイバー検出器の開発
7 2026-2-007	Surendra B Anantharaman	Indian Institute of Technology Madras	Investigating the Role of Anomalous Nernst Effect on the Optical Properties of Two-dimensional Metal Chalcogenides
8 2026-2-008	Gustavo ARDILA	Grenoble Alpes University, France	New insights on the Nernst effect for future thermoelectric energy harvesters with high conversion efficiency.
9 2026-2-009	Shochiku KURE 呉 松竹	Southeast University 東南大学	Tailored Fabrication of Ultra-high Density Magnetic Nanowires Arrays and Functional Control Mechanism of Magnetic Characteristics 超高密度磁性金属ナノワイヤー配列構造体の創製および磁気特性制御メカニズムの解明
10 2026-2-010	Sung-Hyon "Sonny" Rhim	University of Ulsan	Exploration for altermagnetic materials: their spin/orbital Hall and Nernst effect
11 2026-2-011	Wulf Wulfhekel	Karlsruhe Institute of Technology カールスルーエ工科大学	Atomic scale control of spin state at functional organic-inorganic hybrid interface 機能性有機-無機ハイブリッド界面の原子スケールスピンの制御

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12 2026-2-012	Shi Yue 施越	Chongqing University of Science and Technology 重慶科技大学	Development of Advanced Nanoparticle Assembly Technology Inspired by Natural Convection 自然対流に学ぶナノ粒子高次集積技術の開発
13 2026-2-013	Sunita Srivastava	Indian Institute of Technology Bombay	Highly periodic two-dimensional assembly of DNA-functionalized shape-controlled gold nanoparticles for reproducible SERS spectroscopy
14 2026-2-014	Liu Jiacheng 劉珈成	Southeast University 東南大学	Ordered Growth of Core-Shell Nanoparticles on Carbon Nanotubes toward Functional Energy-Related Applications CNT上への秩序成長による核-殻構造ナノ粒子の精密構築と機能発現
15 2026-2-015	Weiliang Ma	Hubei University of Technology	From Assembly Mechanism to Near-Field Enhancement: An ML-DFTB Study of DNA-AuNPs
16 2026-2-016	Nobusuke Kobayashi 小林信介	Gifu University 岐阜大学	Development of a High-Efficiency Plasma Reactor for Ammonia Synthesis using Renewable Energy 自然エネルギーを用いた高効率アンモニア合成用プラズマリアクターの開発
17 2026-2-017	Jie Gao	Chang'an University	Dynamic analysis and collaborative optimization of cycling exposure in multimodal path overlap areas
18 2026-2-018	Manoj M	Indian Institute of Technology (IIT) Delhi	Assessing the feasibility of hydrogen fuel cell buses for intercity bus operations
19 2026-2-019	Tobias Kuhnimhof	RWTH Aachen University	Hydrogen Transition in Heavy-Duty Freight Transport and Its Environmental Impacts on Bicyclists
20 2026-2-020	Phub Dem	Royal University of Bhutan	Toward energy systems within the resource limit; From Global Planetary Boundaries to Regional Safe Operating Spaces through Resource Time Footprint Assessment
21 2026-2-021	Satoshi Sugiura 杉浦聡志	Kochi University of Technology 高知工科大学	Evaluation of Energy-Saving Effects and Optimal Route Design for Decarbonized Next-Generation Buses to Promote Modal Shift 交通モード転換を促進する脱炭素型次世代バスの最適ルートデザインと省エネルギー効果の評価