Division of Energy Materials Science

1. **To promote energy materials science (EMS) that combines material, measurement, and calculation**
2. **To realize energy innovation originated in EMS**

Collaboration with other divisions

1. EMS approach in molecular and semiconductor materials
2. Energy innovation in molecular and semiconductor materials

Members

Y. Moritomo, W. Kobayashi, H. Yanagihara (Material exploration)
E. Nishibori, H. Kasai, H. Nwa (Material visualization)
S. Okada, Y. Hatsugai, Y. Tokura (Material design)

Sub-member

T. Suemasu (inorganic solar cell) **K. Tokou** (inorganic film)
R. Ito (carbon), **K. Marumoto** (ESR)
A. Kanda (graphen), **Y. Shigeta** (ab initio simulation)

PF Amemiya

NSRRC Di-Jing

J-PARC Kamiyama

CMC Iversen

Shigeta

NIMS Takeguchi, Mitsuishi, Sakata, Umezawa, Han, Islam

AIST Yamamoto, Zu, Otani

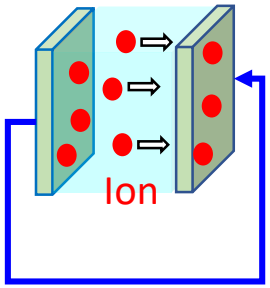
SPring-8 Oishi

RISM EMC UMR6508 Pralong

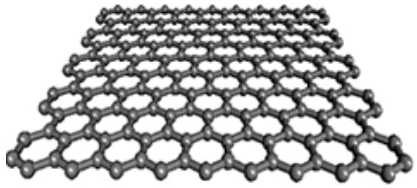
Self-charged mobile electrics

AIST

New thermo-electric conversion



TIA Kakehashi



Low-voltage device

Quantum device

Post-Si electronics

Device

Science

Next-generation magnet

material

measurement calculation

Long-living LIB material

RISM EMC energy materials & clean combustion center UMR6508

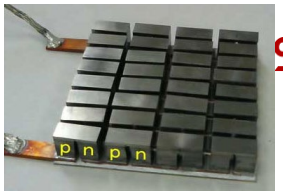
High-performance secondary battery

New structural analysis method

Mechanism of solar cell

NIMS

High-performance solar cell



High-performance thermoelectric conversion

SPring-8

NSRRC

CMC Center for Materials Crystallography

PF

J-PARC