

Strategic Technology Creation and Practice on Nanomaterials

Trans-disciplinary Project

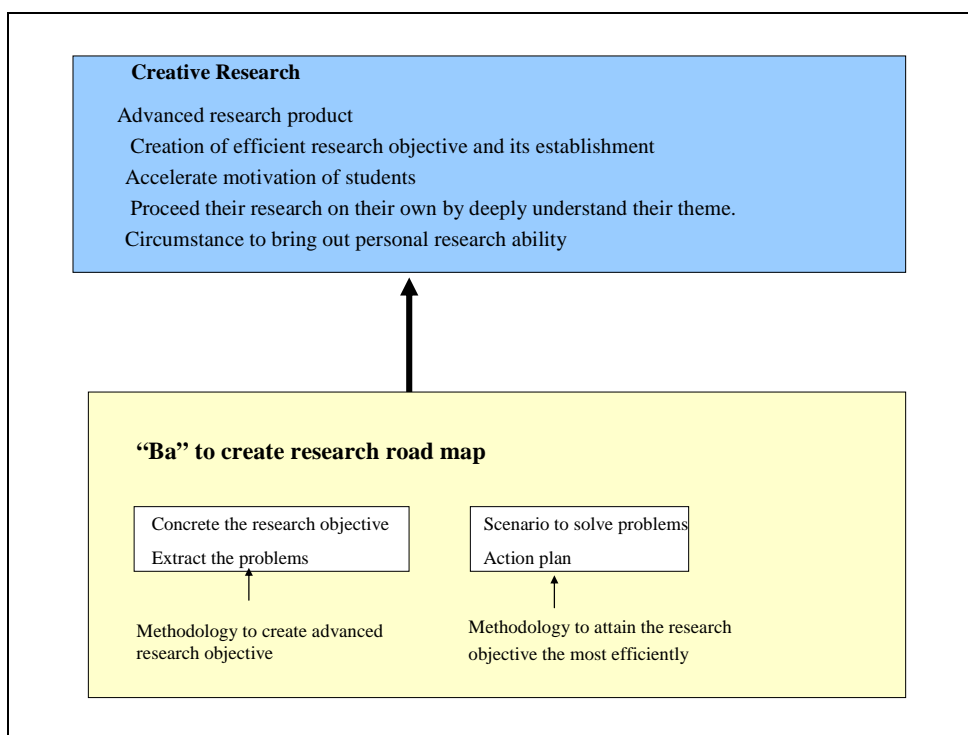
Leader : M. Miyake (Professor, School of Materials Science)

✚ Research Outline

We are developing effective methodology to perform strategic technology creation and practice nanomaterials, such as carbon nanotubes and metal nanoparticles.

Purpose: We aim to develop methodology to create efficient research strategy (creation of research objective) and to proceed research (attain advanced research products). We also investigate methodology to create the most suitable research environment for students.

Methodology: In cooperation with the subgroup for knowledge management, Strategy Center, and JMAC, we are proceeding strategic technology creation and practice on nanomaterials by applying various knowledge management methodologies.



✚ Members

K. Umemoto (Prof. Knowledge Science), T. Tatsuse (Fellow, Strategic Center), Y. Jie, N. Iwase (School of Knowledge Science), S. Murata, Y. Yasunaga (School of Materials Science), H. Hiraki (JMAC)

✚ Publications

M. Yamada, M. Arai, M. Kurihara, M. Sakamoto, and M. Miyake, “Synthesis and Isolation of Cobalt Hexacyanoferrate/Chromate Metal Coordination Nanopolymers Stabilized by Alkylamino Ligand with Metal Elemental Control”, J. Amer. Chem. Soc., 126(31), 9482-9483 (2004).

T. Teranishi and M. Miyake, “Metal Nanoparticle Superlattices”, in Encyclopedia of Nanoscience and Nanotechnology, American Scientific Publishers, pp. 421-448, 2004.

K-H. Kim, M. Yamada, D-W. Park, and M. Miyake, “Particle Size Control of 11-Mercaptoundecanoic Acid-Protected Au Nanoparticles by Using Heat-treatment method”, Chem. Lett., 33 (3), 344-345 (2004).