

Nanoscience Projects in Academia Sinica

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Academia Sinica launched its own nanoscience research programs in 2003, almost in pace with our National Nano Projects. Since the beginning, the program has been conceived and planned with the idea of promoting excellent research and cross-institutional collaboration. In current status, the program has involved Institutes of Physics, Chemistry, and Atomic and Molecular Sciences, and the Center of Applied Sciences. Participating researchers, after several reorganizations, are grouped into three major areas categorized by the projects in energy-related materials and devices, interface-related properties at nanoscale, and biology-related nanotechnology and devices. To facilitate the operation and achievement of these projects, a major part of budget has been distributed to establish a core facility center, which includes equipments such as laser-ablation nanomaterials fabrication system, laser writer, e-beam writer, ICP etcher, dual-beam FIB system, high-resolution transmission electron microscope, and some in-lab instruments. In this presentation, I will provide an overview to this program.

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