

Principal Researcher	Makoto Fujita			Number of Researchers	2	
Research Institution · Department · Title	Professor, Department of Applied Chemistry, School of Engineering, The University of Tokyo			Location of Institution	Bunkyo-ku, Tokyo	
Title of Project	Programmed Molecular Self-assembly Utilizing Transition Metals : Synthesis and Function of Nano-scale Molecular Materials					
Abstract of Research Project	Our research project focuses on the programmed self-assembly of nanoscale molecular architectures via metal coordination. This method provides an extremely efficient approach for constructing well-defined nano-structures based on both organic and inorganic frameworks. The architectures are highly expected to show unique properties which can never be derived from small molecules. We particularly study on the self-assembly of three-dimensional structures with large cavities, such as cages, tubes, and capsules, in which new properties and functions of molecules will appear.					
References	Fujita, M. (Ed) "Molecular Self-Assembly: Organic Versus Inorganic Approaches", Structure and Bonding, vol. 96; Springer: New York 2000.					
Term of Project	Fiscal years 2002-2006. (5 years)					
Budget Allocation (in thousand of yen)	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL
	4,700	26,400	21,100	17,600	17,600	87,400