Title of Project	Reversible Conversion between Electrical Energy and Chemical one Mediated
	with Coordination Complexes
Principal Investigator	Koji Tanaka, Institute for Molecular Science, Department of Life and
Name	Coordination-Complex Molecular Science, Professor
Abstract of	Since James Watt's invention of steam engines about 250 years ago, our society
Research Project	has been heavily relying on thermal energy released by combustion of tremendous
	amounts of fossil fuel. Conversion of electrical energy to chemical one would
Number of	provide the most reasonable methodology to fix non-steady natural energies and
Researchers : 1	to store extra electricity generated by power plants at night. The aim of this
	study is to develop molecular catalysts that are able to catalyze conversion
Term of	between carbon dioxide and methanol through six-electron redox reactions of
Project: 2008–2011	those molecules.