[Abstract of 2009 Grant – in – Aid for Scientific Research on Innovative Areas (Research in a proposed research area)]

Title of project	Organic Synthesis Based on Reaction Integration. Development of New Methods and Creation of New Substances
	of new Substances
Head Investigator	YOSHIDA Junichi, Kyoto University, Graduate School of Engineering, Professor
Name	
Abstract of	Organic synthesis has been developed mainly based on step-by-step synthesis. This project aims
Research Project	to enhance the power of organic synthesis by introducing an efficient way of combining multiple
	steps in one-pot or in one-flow. In short, we focus on time and space integration of reactions and
	its applications to creation of new substances. These will be accomplished by the design and
	study of synthetic transformations that would be impossible without integration—such as the
	generation of unstable reactive species that are swiftly utilized for a further reaction before they
Term of	decompose, and the synthesis of biologically interesting molecules and functional materials by
Project: 2009-2013	taking advantage of reaction integration.