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Synthesis of organofluorine compounds using flow microreactors

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Organo-fluorine compounds are the substances of considerable interest in various industrial fields due to their unique physical and chemical properties. Despite increased demand in wide fields of science, synthesis of organofluorine compounds is still often faced with problems. Recently, flow microreactor synthesis has emerged as a new methodology for producing chemical substances with high efficiency. Here, we report a flow microreactor method for the synthesis of organofluorine compounds based on the generation of unstable fluoro-substituted organolithiums involving perfluoroalkyllithiums and subsequent reactions that are not compatible with the generation process.

Biography

Aiichiro Nagaki received his PhD from Kyoto University under the supervision of Professor Jun-ichi Yoshida in the year 2005. He worked with Professor Hiroaki Suga, Tokyo University in 2005 as a Post-doctoral Fellow. In 2006, he became an Assistant Professor of Kyoto University. He was promoted to Junior Associate Professor in the year 2013. His current research interests are organic synthesis, polymer synthesis, and microreactor synthesis. He has won many awards: Takeda Pharmaceutical Co., Ltd. Award in Synthetic Organic Chemistry, Japan (2012); Incentive Award in Synthetic Organic Chemistry, Japan (2012) and; Young Innovator Award on Chemistry and Micro-Nano Systems (2013).

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