

Frontier Chemistry Center フロンティア化学教育研究センター

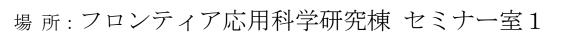
講演会

演 題: Mechanochemical Polymer Synthesis

講 師: Prof. Dr. Jeung Gon Kim

Department of Chemistry Chonbuk National University, Korea

日時: 2019年9月25日(水) 15:00~16:00



要旨:

Mechanochemical reactions are promising methods to break and form chemical bonds. While many areas of chemistry have enjoyed the merits of mechanochemistry, it has been unexplored in polymer synthesis. Applying mechanical stress on polymeric materials has been regarded to cause degradation. Recently, we stared to pursue the use of mechanical force for the construction of macromolecules and a mechanochemical polymerization of lactide is developed using ball milling. Mechanical energy from the collisions between the balls and the vessel efficiently promoted an organic-base-mediated metal- and solvent-free solid-state polymerization. Also solid-state post-polymerization modification was achieved by means of mechanochemistry as well. The current status of mechanochemical polymer synthesis by our research team will be presented.

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