

演題：**Mechanochemical Polymer Synthesis**

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場所：フロンティア応用科学研究棟 セミナー室1

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 started 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.

本講演は、大学院総合化学院『化学研究先端講義（修士課程選択科目）／総合化学特別研究第二（博士後期課程選択科目）』の一部として認定されています。

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