인천대학교 화학과

2026-2학기

화학과 Colloquium Seminar



Mechanochemistry: New Opportunity for Polymer Synthesis and Chemical Recycling

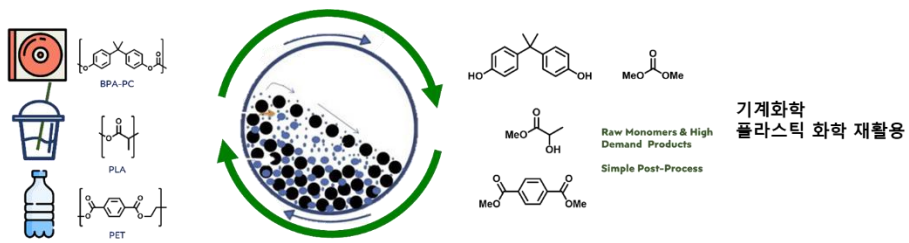
김정곤 교수 | 한양대학교 화학과

○ **일시 : 2026.10. 8. (목) 16:00**

○ **장소 : 5호관 506호**

○ **초록**

Mechanochemical polymer synthesis is an emerging area, broadening the realm of polymer science. Our research group has been involved in ball-milling polymer synthesis since 2016. We witness that many solution-based polymerizations can be transferred to solvent-free solid-state conditions, promoting green chemistry. Also, the impossible combinations in the solution are possible in mechanochemical conditions. In addition, we recently discovered the simplest depolymerization system of polyesters and polycarbonates using mechanochemistry. The case-by-case presentation will explain why mechanochemical polymer synthesis is an attractive field.



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문의 화학과 강동구 교수 | 032-835-8094, dkkang@inu.ac.kr