

Showcasing research from Dr. Yong Jin Kim's laboratory, Low Carbon Transition R&D Department, Korea Institute of Industrial Technology, Cheonan-si, Republic of Korea.

Environmentally friendly process design for furan-based long-chain diester production aiming for bio-based lubricants

The tetrahydrofuran diesters were successfully synthesized, demonstrating wide applicability as a replacement for conventional base oils. They also showed a 35% improvement in CO_2 emissions, as revealed by LCA analysis.

As featured in:



See Jayeon Beak, Jeehoon Han, Yong Jin Kim *et al., Green Chem.,* 2025, **27**, 607.

ROYAL SOCIETY OF CHEMISTRY

rsc.li/greenchem Registered charity number: 207890