



**Showcasing research presented by Professor Jaewook Myung and Hanseul Yang from KAIST, and Professor Jongchul Seo from Yonsei University, Republic of Korea.**

**Boric acid-crosslinked poly(vinyl alcohol): biodegradable, biocompatible, robust, and high-barrier paper coating**

Traditional coating materials for paper packaging exacerbate plastic pollution, prompting the need for sustainable alternatives. A biodegradable, biocompatible, robust, and high-barrier paper coating material was developed to tackle the challenge of balancing packaging performance and sustainability. The boric acid-crosslinked polyvinyl alcohol coating remarkably improves barrier properties and mechanical robustness without compromising biodegradability and biocompatibility of paper, marking a green advance in sustainable packaging.

**As featured in:**



See Jaewook Myung *et al.*,  
*Green Chem.*, 2024, **26**, 8230.