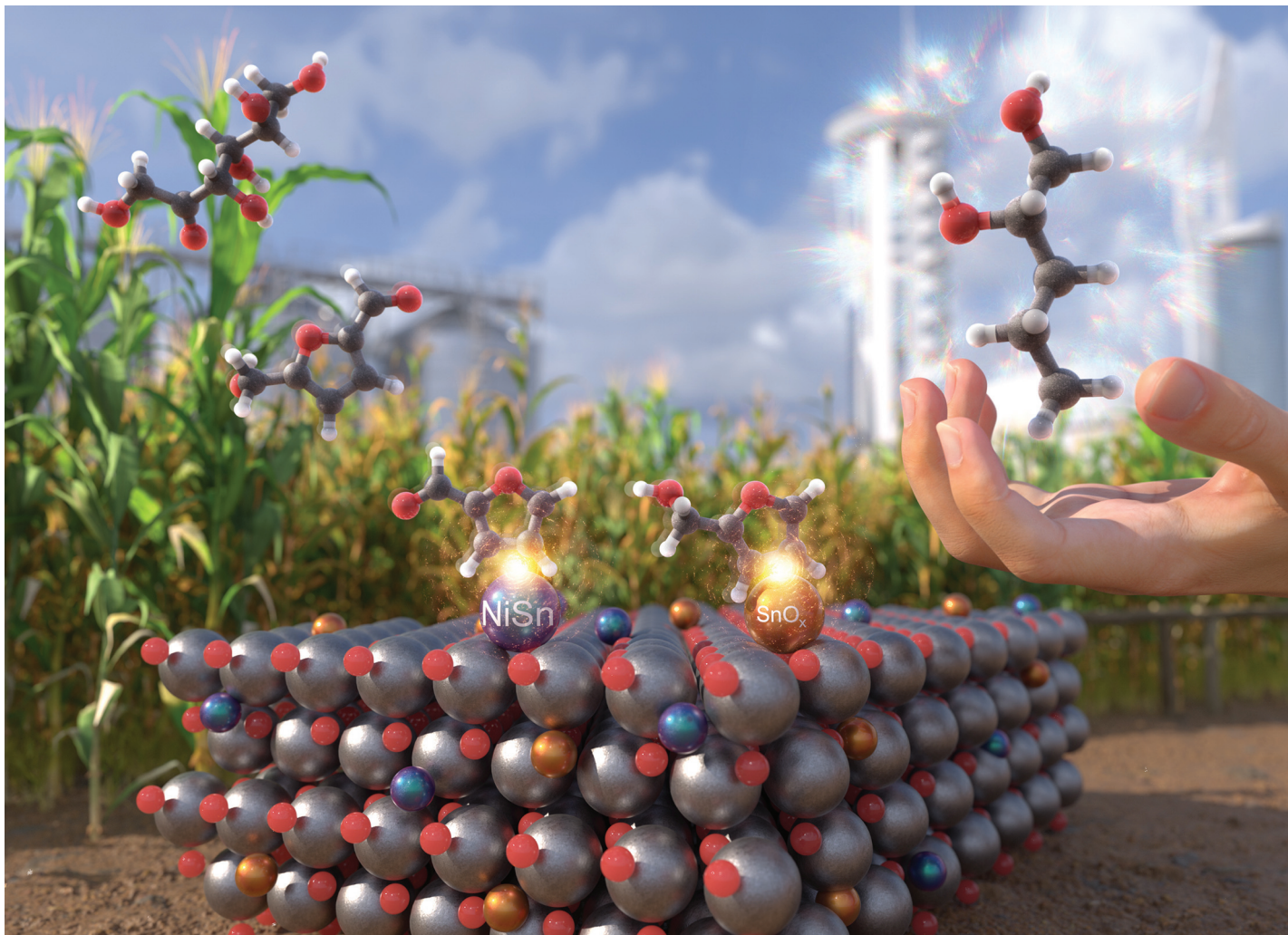


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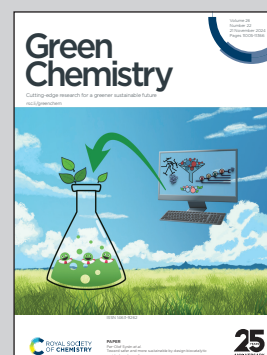


Showcasing the green strategy for the production of sustainable chemicals by Professor Young Kyu Hwang's laboratory, Korea Research Institute of Chemical Technology (KRICT), University of Science and Technology, Daejeon, South Korea collaborated with ACTIVON Co., Ltd., Cheongju, South Korea.

Continuous production of 1,2-pentanediol from furfuryl alcohol over highly stable bimetallic Ni-Sn alloy catalysts

This study presents an efficient bimetallic Ni-Sn/ZnO catalyst for the continuous conversion of furfuryl alcohol into 1,2-pentanediol(1,2-PDO) with a 91% yield. A key synergistic effect between Ni-Sn alloy phases and SnO_x species enhances the selective breaking of the $\delta\text{-C5-O1}$ bond, facilitating targeted 1,2-PDO production with efficiency over 300 hours.

As featured in:



See Pravin P. Upare, Seung Ju Han, Young Kyu Hwang *et al.*, *Green Chem.*, 2024, **26**, 11164.