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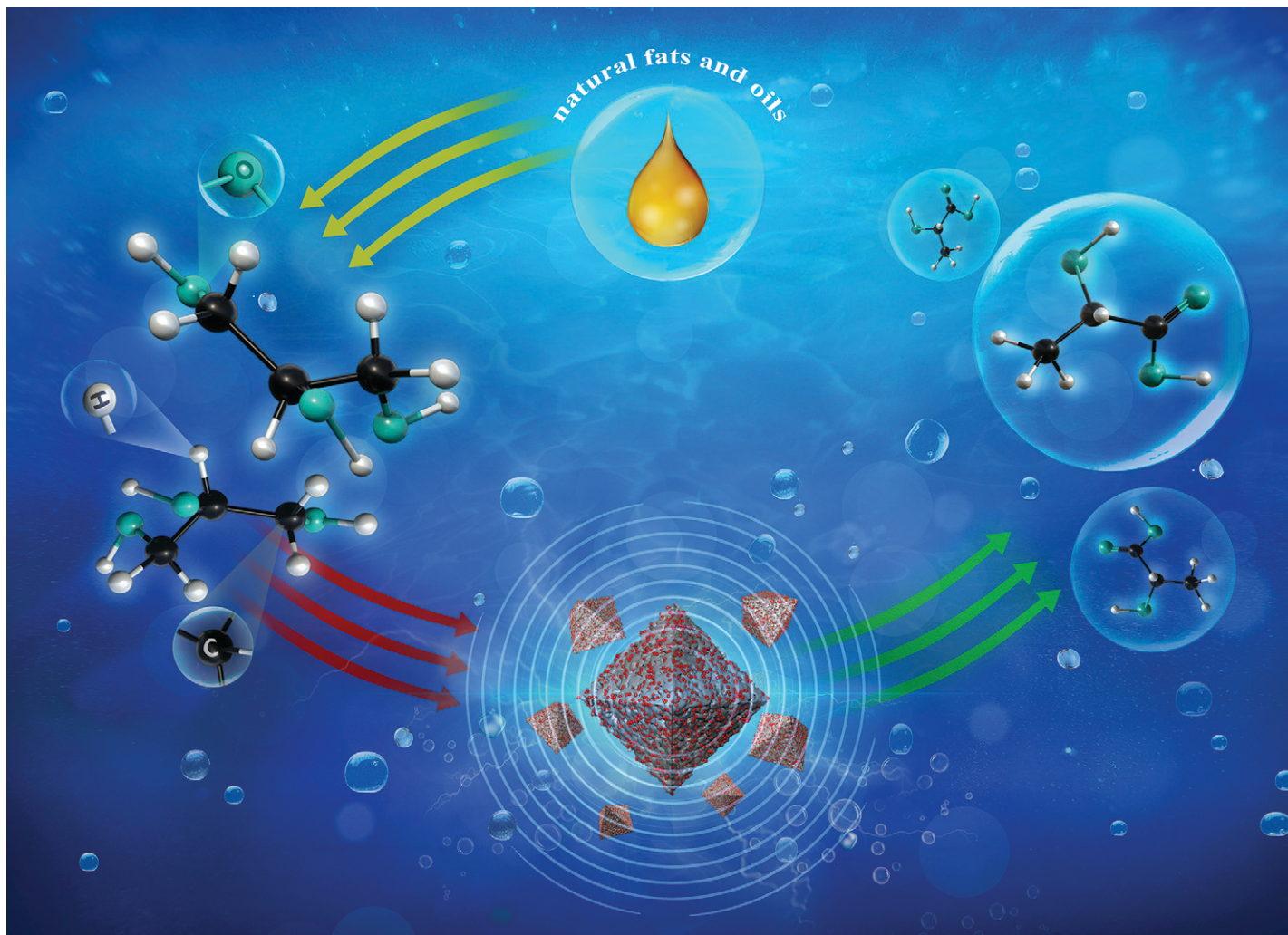
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**Showcasing research from Professor Sansan Yu's laboratory, College of Chemical Engineering, Shenyang University of Chemical Technology, Shenyang, China.**

Fabrication of nano  $\text{Cu}/\text{Cu}_2\text{O}@\text{C}$  for the conversion of glycerol to lactic acid

The catalyst calcined at 450 °C ( $\text{Cu}/\text{Cu}_2\text{O}@\text{C}$ -450) exhibits the largest  $\text{Cu}^0$  lattice spacing (0.221 nm), achieving 100% glycerol conversion with 89.89% lactic acid selectivity, while maintaining over 80% selectivity after 8 cycles. DFT calculations reveal enhanced adsorption energy and differential charge redistribution, confirming the optimized electronic structure.

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**As featured in:**



See Shuangming Li, Sansan Yu *et al.*, *Catal. Sci. Technol.*, 2025, 15, 3275.