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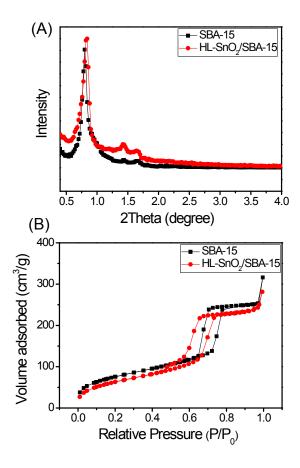


Figure S1. (A) The XRD patterns and (B) N_2 sorption isotherms of SBA-15, HL–SnO₂/SBA-15.

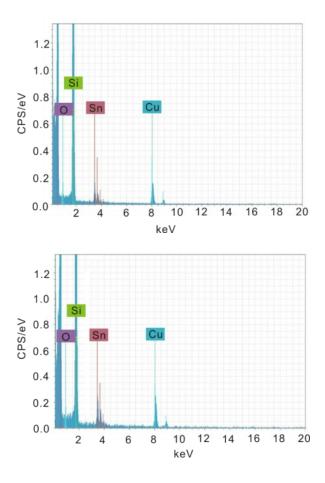


Figure S2. Energy dispersive spectra (EDS) of randomly selected regions on $SnO_2/SBA-15$.

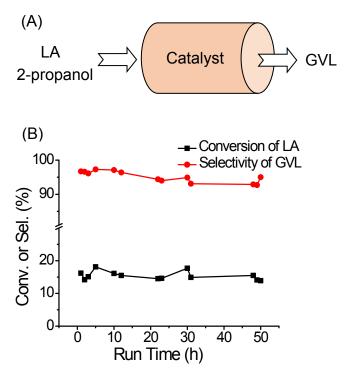


Figure S3. (A) Scheme of the fixed-bed reactor for producing GVL in a continuous system; (B) Dependence of LA conversion and GVL selectivity on time in the fixed-bed reactor. Reaction temperature at $100\,^{\circ}$ C, reactor volume at $10\,\text{ml}$, $0.2\,\text{g}$ of $\text{SnO}_2/\text{SBA-15}$, $2.0\,\text{wt}\%$ LA in 2-propanol solution, $0.2\,\text{ml/min}$ N_2 .