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Vapor-phase hydrogenation of levulinic acid to  $\gamma$ -valerolactone over Cu-Ni bimetallic catalysts

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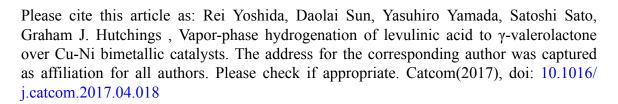
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## **ACCEPTED MANUSCRIPT**

# $\label{eq:continuous} Vapor-phase\ hydrogenation\ of\ levulinic\ acid\ to\ \gamma\mbox{-valerolactone}\ over\ Cu-Ni$ bimetallic catalysts

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