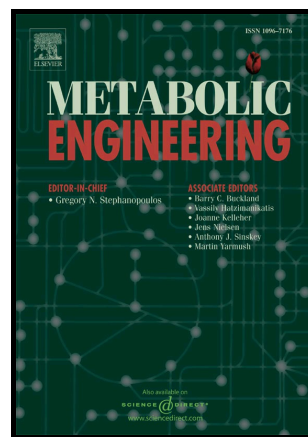


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**Metabolic engineering of *Escherichia coli* for the production of L-malate from xylose**

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**Abstract**

Malate is regarded as one of the key building block chemicals which can potentially be produced from biomass at a large scale. Although glucose has been extensively studied as the

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