

Accepted Manuscript



One-pot tandem conversion of fructose into biofuel components with in-situ generated catalyst system

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PII: S2095-4956(17)30904-X
DOI: [10.1016/j.jechem.2018.01.002](https://doi.org/10.1016/j.jechem.2018.01.002)
Reference: JECHEM 509

To appear in: *Journal of Energy Chemistry*

Received date: 12 October 2017
Revised date: 29 December 2017
Accepted date: 5 January 2018

Please cite this article as: Huai Liu , Xing Tang , Weiwei Hao , Xianhai Zeng , Yong Sun , Tingzhou Lei , Lu Lin , One-pot tandem conversion of fructose into biofuel components with in-situ generated catalyst system, *Journal of Energy Chemistry* (2018), doi: [10.1016/j.jechem.2018.01.002](https://doi.org/10.1016/j.jechem.2018.01.002)

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Highlights

- One-pot tandem conversion of fructose into biofuel components was performed.
- HCl and $\text{ZrO}(\text{OH})_2$ derived from $\text{ZrOCl}_2 \cdot 8\text{H}_2\text{O}$ catalyzed the conversion of fructose.
- Ethanol was applied as the in-situ H-donor and solvent in this study.
- Total yield of detectable products of up to 65.4% was obtained at 200 °C in 2 h.

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