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Authors: Tianye Guo, Qineng Xia, Yi Shao, Xiaohui Liu, Yanqin Wang



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Direct deoxygenation of lignin model compounds into aromatic hydrocarbons through hydrogen transfer reaction

Tianye Guo, Qineng Xia*, Yi Shao, Xiaohui Liu, Yanqin Wang*

Shanghai Key Laboratory of Functional Materials Chemistry, Research Institute of Industrial

Catalysis, School of Chemistry and Molecular Engineering, East China University of Science

and Technology, Shanghai, 200237, China

Tel/Fax: 0086-21-64253824

E-mail: xiaqineng159@163.com; wangyanqin@ecust.edu.cn

Graphical Abstract $\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$

Highlights

- A new route is reported for the HDO of lignin model compounds to arenes via hydrogen transfer.
- The reaction pathways study shows that the DDO reaction was the main pathway.
- 5%Ru/10%Nb₂O₅/SiO₂ catalyst showed excellent hydrothermal stability.

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