

Accepted Manuscript

Title: Review on the Synthesis of Dimethyl Carbonate

Authors: Hong-Zi Tan, Zhi-Qiao Wang, Zhong-Ning Xu, Jing Sun, Yu-Ping Xu, Qing-Song Chen, Yumin Chen, Guo-Cong Guo



PII: S0920-5861(18)30072-5
DOI: <https://doi.org/10.1016/j.cattod.2018.02.021>
Reference: CATTOD 11246

To appear in: *Catalysis Today*

Received date: 29-11-2017
Revised date: 1-2-2018
Accepted date: 13-2-2018

Please cite this article as: Hong-Zi Tan, Zhi-Qiao Wang, Zhong-Ning Xu, Jing Sun, Yu-Ping Xu, Qing-Song Chen, Yumin Chen, Guo-Cong Guo, Review on the Synthesis of Dimethyl Carbonate, *Catalysis Today* <https://doi.org/10.1016/j.cattod.2018.02.021>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Review on the Synthesis of Dimethyl Carbonate

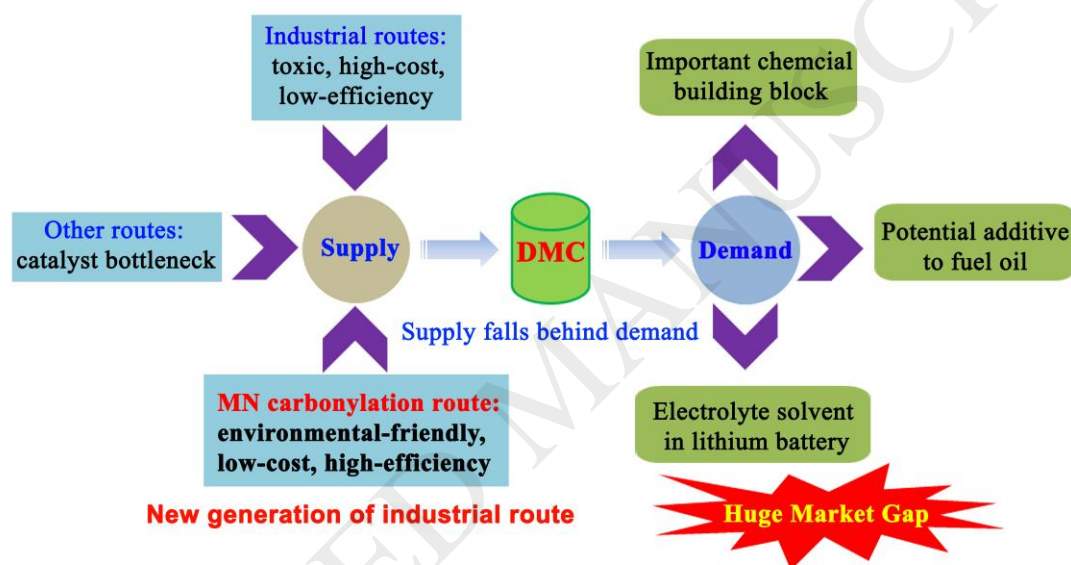
Hong-Zi Tan,^{a,c} Zhi-Qiao Wang,^{* a,b} Zhong-Ning Xu,^{* a,b} Jing Sun,^a Yu-Ping Xu,^a Qing-Song Chen,^a Yumin Chen,^a and Guo-Cong Guo^{* a}

^a State Key Laboratory of Structural Chemistry, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou 350002, Fujian, P. R. China

^b Key Laboratory of Coal to Ethylene Glycol and Its Related Technology, Chinese Academy of Sciences, Fuzhou 350002, Fujian, P. R. China

^c University of Chinese Academy of Sciences, Beijing 100049, P. R. China.

Graphical abstract



Highlights

- Overview on the application and market of dimethyl carbonate (DMC).
- Overview on the DMC industrial synthesis routes and other synthesis methods.
- Introduction the methyl nitrite carbonylation to DMC synthesis route.
- Systematical summarizing the research progress of two typed Pd-based catalysts.

Download English Version:

<https://daneshyari.com/en/article/8964975>

Download Persian Version:

<https://daneshyari.com/article/8964975>

[Daneshyari.com](https://daneshyari.com)