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## Effect of temperature on the mechanism and products of dimethyl ether conversion on the surface of zeolite ZSM-5 catalysts

© Alexander S. Rodionov, Galina N. Bondarenko, Galina N. Shirobokova, Natalia V. Kolesnichenko, and Yury V. Pavluk

A.V. Topchiev Institute of Petrochemical Synthesis, RAS (TIPS RAS). Leninsky Prospect, 29. Moscow, 119991. Russia. Phone: +7 (495) 955-41-53. E-mail: ASRodionov@ips.ac.ru

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## **Abstract**

By means of high-temperature DRIFT spectroscopy *in situ* it has been shown that the mechanism of dimethylether conversion to olefins depends on temperature. At lower temperature there takes place the carbenium mechanism, and at high temperatures – oxonium-ylide.

<sup>&</sup>quot;The structure and dynamics of molecular systems." Yalchik 2013.

<sup>\*</sup>Supervising author; \*Corresponding author