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## An Approach towards High Quality Bulk Zeolitic Imidazolate Framework Glasses

Malwina Stepniewska<sup>1</sup>, Ang Qiao<sup>1,2</sup>, Martin B Østergaard<sup>1</sup>, Chao Zhou<sup>1</sup>, Laurent Calvez<sup>3</sup>, Xianghua Zhang<sup>3</sup> and Yuanzheng Yue<sup>1,2</sup>

<sup>1</sup>Department of Chemistry and Bioscience, Aalborg University, DK-9220 Aalborg, Denmark

<sup>2</sup>State Key Laboratory of Silicate Materials for Architectures, Wuhan University of Technology, Wuhan 430070, China

<sup>3</sup>Institut des Sciences Chimiques de Rennes UMR CNRS 6226, Université de Rennes 1, 35042 Rennes, France

Melt-Quenched Zeolitic Imidazolate Framework (MQ-ZIF) glasses have attracted much attention due to their unique, hybrid structure. Recently several breakthroughs have been reported regarding their unique structure and properties. However, production of bulk, homogenous, bubble-free samples of MQ-ZIF glasses is still challenging, due to facile degradation at their liquid state. In this contribution, we report on the impact of the production method on the quality (including bubble content, homogeneity, optical transparency) of the ZIF glasses by taking ZIF-62 (ZnIm<sub>1.75</sub>bIm<sub>0.25</sub>) glass as an example. We first produce ZIF-62 (ZnIm<sub>1.75</sub>bIm<sub>0.25</sub>) glasses with the size of about  $\phi$ 10×2 mm by using three different methods (melting under protective gas, hot-pressing-melting in vacuum, and spark plasma sintering). Then we evaluate which method is the most suitable for producing high quality ZIF-62 glass. This glass should be used for property characterizations (particularly for optical properties), up-scale production and functionality studies. Finally, the quality evaluation results show that the spark plasma sintering is a promising technique for fabricating the high quality ZIF glasses in a large scale.