

Publication 64: Preparation of Silver Nanowires under Segmented Flow-through Conditions



The effect of chain length of PVP on the structural and morphological properties of AgNWs produced using a segmented flow reaction constructed using a Uniqsis BPM and a HotCoil was investigated.

A higher PVP chain length led to a smaller diameter and longer length of the AgNWs. The electric properties of AgNWs exhibited high stability toward bending up to 200 cycles.

Long and thin AgNWs can be produced by a flow synthesis process which potentially can be used in flexible TCE applications.

[K. S. Lau, S. X. Chin, S. T. Tan, F. S. Lim, W. S. Chang, C. C. Yap, M. H. H. Jumali, S. Zakaria, S. W. Chook, C. H. Chia, Journal of Alloys and Compounds 2019, 803, 171](#)

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