

Synthesis of silver nanowires with controlled thickness and length

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Silver nanomaterials have gained much attention for various applications including electrodes, sensors, and catalysts due to their high conductivity, surface plasmon resonance, and high surface activity. Among silver nanomaterials, silver nanowires have been extensively studied for the fabrication of transparent and stretchable electrodes for wearable electronic devices recently. For applications based on silver nanowires, control of thickness and length of nanowires is mandatory to obtain high performance. In this presentation, we show HCl mediated polyol synthesis under controlled reaction atmosphere for preparation of silver nanowires and discuss about controllability in thickness and length of nanowires by the method