**A method of patterning vertically aligned gold nanowire arrays for stretchable electrodes**

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**Abstract**

Vertical gold Nanowires (V-AuNWs) are outstanding conductive materials that are of broad interest to researchers in the fields of stretchable electronics, organic electronics and health monitoring.1 Typically, V-AuNWs are grown in wet chemistry environments via a self-assembly approach. To incorporate V-AuNWs into devices, a universal top-down patterning method is presented to generate V-AuNWs patterns with high spatial resolution. The patterned V-AuNWs can be transferred and embedded into elastomer substrates, providing highly conductive, stretchable and durable electrodes.2

**References**

1. Bowen Zhu, Shu Gong, Wenlong Cheng\*. (2019). Softening Gold for Elastronics. Chem. Soc. Rev., 48, 1668-1711.

2. Bowen Zhu, Shu Gong, Fenge Lin, Yan Wang, Yunzhi Ling, Tiance An, and Wenlong Cheng\*. (2019). Patterning Vertically-Grown Gold Nanowire Electrodes for Intrinsically Stretchable Organic Transistors. Adv. Electron. Mater., 5, 1800509.