**Stretchable Gold Nanowire Epidermal Energy Devices**

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Next generation of electronic devices will be not only flexible but also stretchable, enabling applications impossible to achieve with existing rigid circuit board technologies. This needs new materials and new design principles. Among various materials of choices, gold has advantages of biocompatibity, chemical inertness, wide electrochemical window and band-gap-matching with a lot of semiconductors materials. In this talk, I will discuss the Monash e-skin-based wearable technology platform using ultrathin gold nanowires. We have demonstrated their applications in skin-like pressure sensors, strain gauge sensors and transparent energy storage devices. In this talk, I will focus on the discussion of gold electronic skins for highly stretchable, skin-conformal energy devices.

**References**

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