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# Flexible strain sensor based on aerogel-spun carbon nanotube yarn with a core-sheath structure

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## Abstract

Flexible strain sensors with good linear sensitivity, mechanical compatibility with systems and robustness over repeated usages are very desirable in wearable electronics, smart textiles, and other multifunctional structures. To this end, carbon nanotube/polyvinyl alcohol (CNT/PVA) coated yarn with a core-sheath structure (inner pure CNT core and outer CNT-PVA sheath) was fabricated by dipping the

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