

Poster Presentation

[FLXp1]Flexible Electronics Technologies

Thu. Nov 28, 2019 2:30 PM - 5:00 PM Main Hall (1F)

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[FLXp1-10L]Semiconducting carbon nanotube-based stretchable transistors

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Keywords:stretchable transistor, semiconducting carbon nanotube, SEBS, carbon nanotube sorting

Realizing stretchable electronics requires special materials with intrinsically elastic or durable properties. One of candidates is the semiconducting carbon nanotube due to its excellent mechanical property and ultra-high charge transport mobility.

In this work, the stretchable transistor is composed of sorted single-walled carbon nanotube (SWNT) semiconductors and insulating elastomer.