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Expertise: Energy material, supercapattery, electrochemical sensor, supercapacitor, electrochromic

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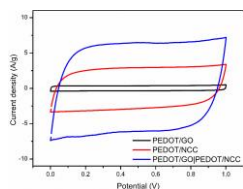
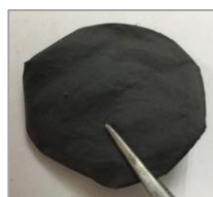
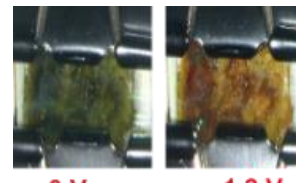
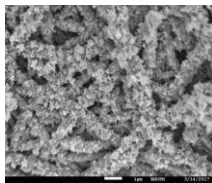
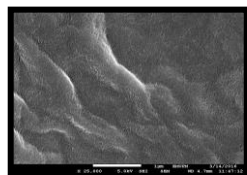
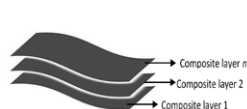
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Google Scholar: [Link](#)
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RESEARCH HIGHLIGHTS

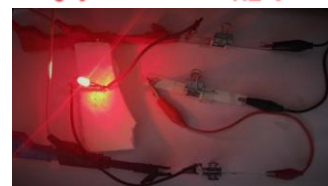
1. Energy Storage Devices (Supercapacitors, Electrochromic-supercapacitor)



Nanofiber composite



Coin-cell



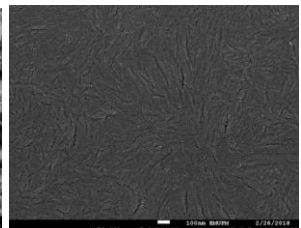
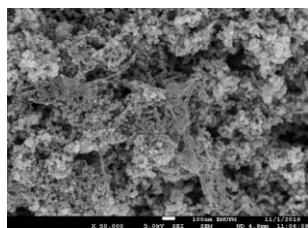
Electrochromic-supercapacitor

Layer-by-layer

Electrochimica Acta 259 (2018) 466, Journal of Electroanalytical Chemistry 867 (2020) 114188, Journal of Energy Storage 48 (2022) 103954

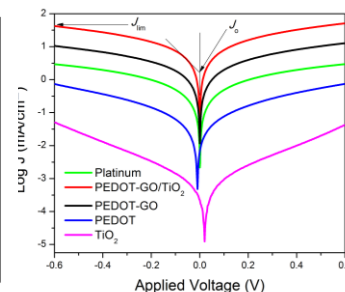
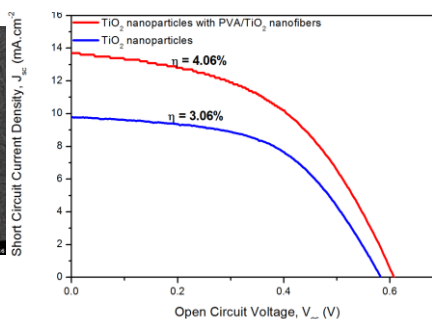
Patent: PI2018702018, PI2021007033

2. Solar Cells



Nanocomposite

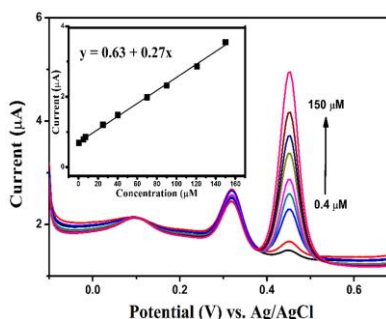
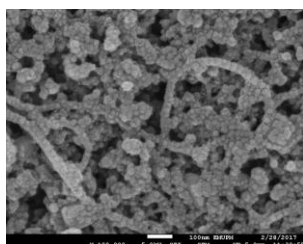
Compact layer



Optical Materials 120 (2021) 111475, Solar Energy 212 (2020) 332-338

Patent: PI20190055

3. Sensors



Sensor kit

Nanocomposite modified electrode

Synthetic Metal252 (2019) 76, Microchimica Acta 186 (4) (2019) 261, RSC Advances 8 (2018) 15522.

Patent: PI 2018700001, PI 2018700606