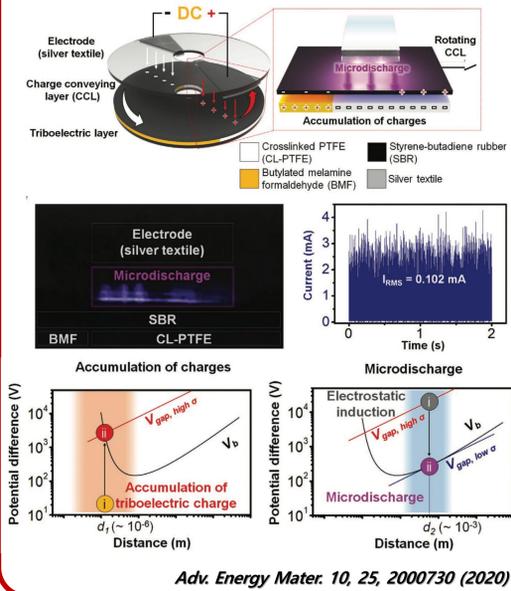


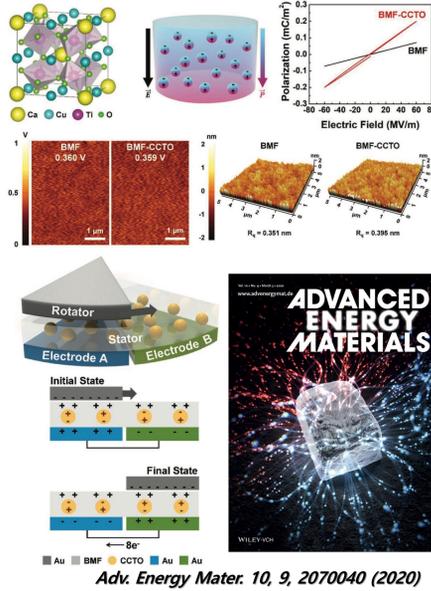
연구실명: 나노 에너지 연구실
Nano Energy Science & Engineering Lab (NESEL)
지도교수: 김상우 교수
연구분야: 마찰정전기/ 압전 나노제네레이터
인체삽입형 소자/ 항병원체 소자/ 웨어러블 센서
시한성 소재/ 생체친화성 소재/ 2차원 나노소재

Triboelectric/Piezoelectric for Energy Harvesting

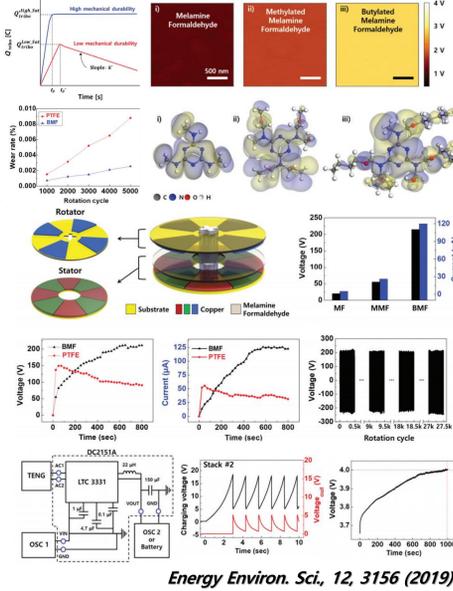
Microdischarge-Based Direct Current Triboelectric Nanogenerator



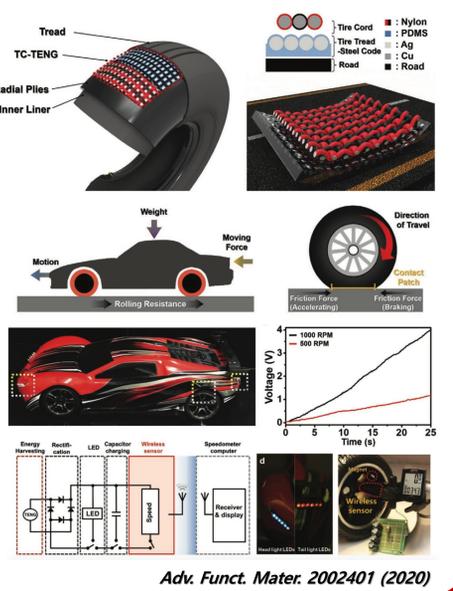
Ferroelectric Nanocomposite based Triboelectric Nanogenerator



Stable and High-performance Triboelectric Nanogenerator

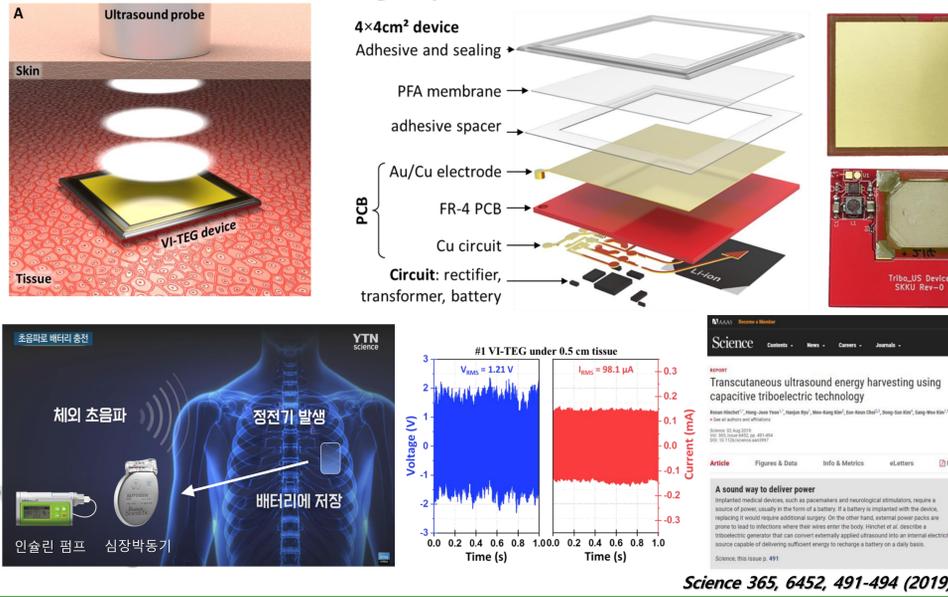


Textile-Based Tire Cord Triboelectric Nanogenerator

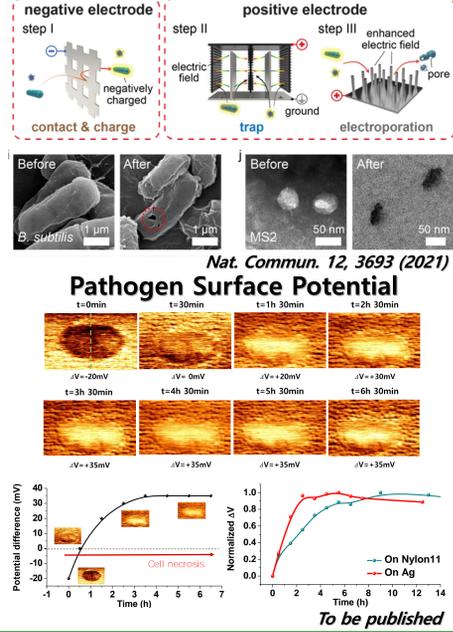


Implantable/Wearable Devices & Applications

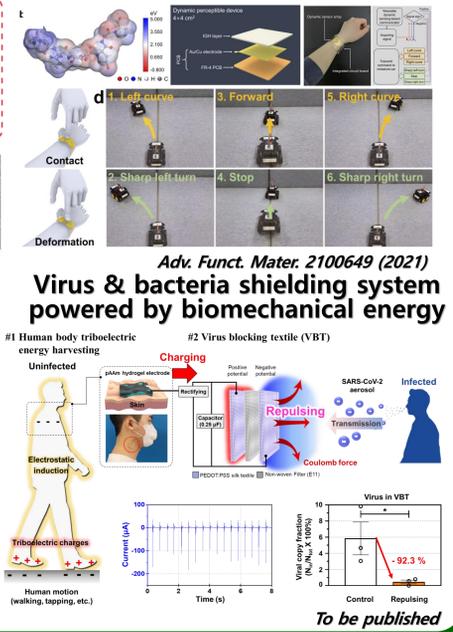
Ultrasound-Driven Triboelectric Nanogenerator for Powering Implantable Medical Devices



Triboelectrification-Induced Virus & Bacteria Disinfection

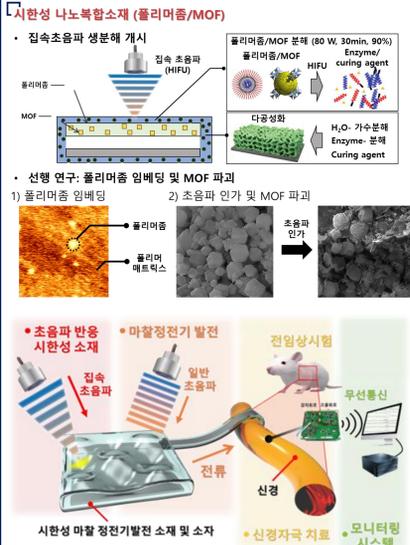


Wearable Communicator Based on Dynamic Perception

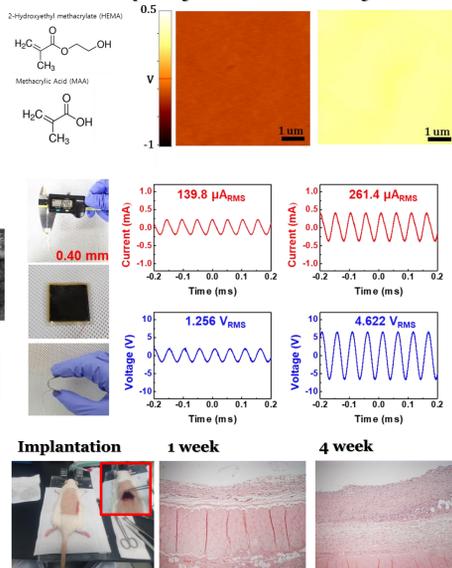


Materials Synthesis & Applications

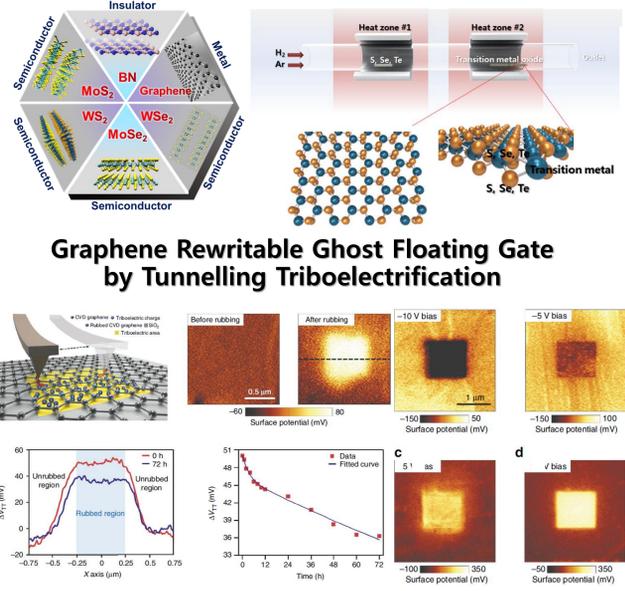
Transient Composite Nanomaterial-Based Nerve Stimulation Device



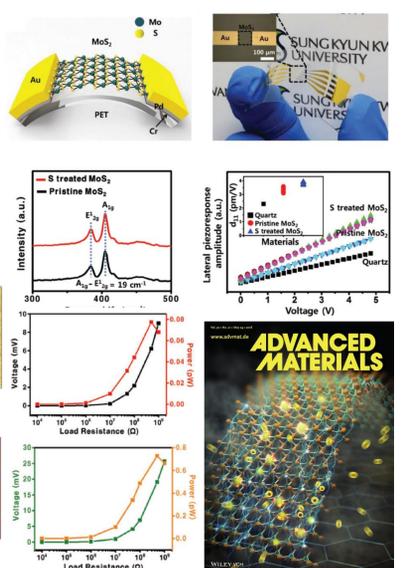
Biocompatible Hydrogel with Property Controllability



2D Materials Synthesis by CVD



Piezoelectric Nanogenerator Materials



Graphene Rewritable Ghost Floating Gate by Tunnelling Triboelectrification

