



Showcasing research from Professor Chih-Chia Huang's laboratory, Department of Photonics, and Professor Mei-Chin Chen, Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan

Polyphenol-assisted assembly of Au-deposited polylactic acid microneedles for SERS sensing and antibacterial photodynamic therapy

The polyphenol-assisted assembly of Au-deposited microneedles array was applied in *in situ* SERS-based bacteria sensing by detecting bacteria-derived purine molecules; the methylene blue-immobilized microneedles array demonstrated antibacterial photodynamic therapy by generating singlet oxygen to damage bacterial cells.

As featured in:



See Mei-Chin Chen,
Chih-Chia Huang *et al.*,
Chem. Commun., 2023, **59**, 6339.