

機械工程系
Department of
Mechanical Engineering

智慧生醫化學感測與分析
Wisdom
Biomedical/Chemical
Sensing and Analysis

智慧生醫化學感測系統實驗室
WiBCSS Lab.



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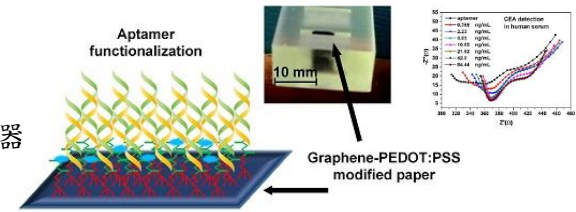
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研究領域

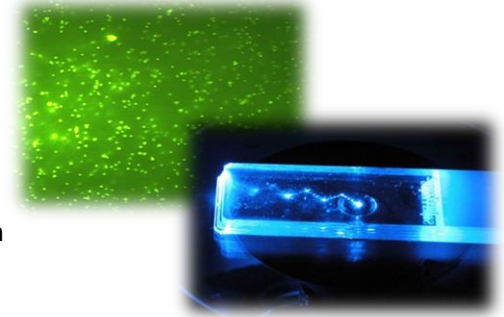
生醫化學感測技術、微奈米
機電技術、精密塗佈技術、
智慧製造技術

近期研究主題

- 紙基電化學生物化學感測器
- 生醫微機電系統晶片
- 生物化學自組裝分子製程
- 微流體系統晶片設計與製程
- 奈米力學生物感測系統
- 智慧製造技術



紙基電化學生物化學感測器開發
Paper-based Electrochemical Bio/chemical
Sensor Development



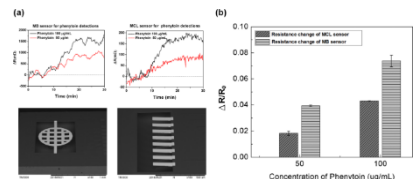
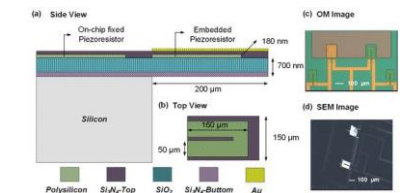
Research Area

Biomedical and chemical sensing
technology, MEMS/NEMS, Precision
coating technology, Wisdom
manufacturing

Recent Topics

- BioMEMS
- Paper-based electrochemical
bio/chemical sensor
- Biochemical Self Assembly
process
- Precision Molecular Coating
technology
- Microfluidics
- Nanomechanical Biosensors
- Wisdom Manufacturing

生醫微機電系統與微流體晶片
BioMEMS and Micorfluidics



奈米力學生物感測技術
Nanomechanical Biosensors