

機械工程系  
Department of  
Mechanical Engineering

光製造與檢測  
Light Manufacture and  
Inspection

光製造與檢測實驗室  
Light Manufacture &  
Inspection Lab.



O: 綜科 423  
#2043

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#2061

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研究領域

雷射材料加工、光機系統設計與分析、光機電系統整合、智慧感測器開發

- 雷射加工系統設計與整合
- 微奈米雷射加工
- 新穎金屬積層製造技術

近期研究主題

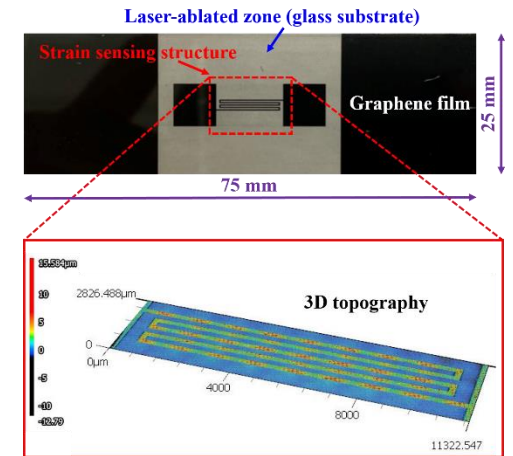
- 石墨烯/MXene複合材料開發及應用
- 智慧感測技術
- 半導體關鍵零組件/系統開發
- 醫療器材開發

Research Area

Laser materials processing, opto-mechanical system design and analysis, opto-mechatronic system integration, development of smart sensor

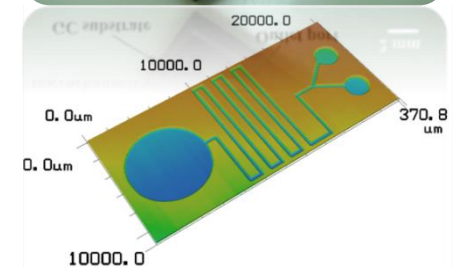
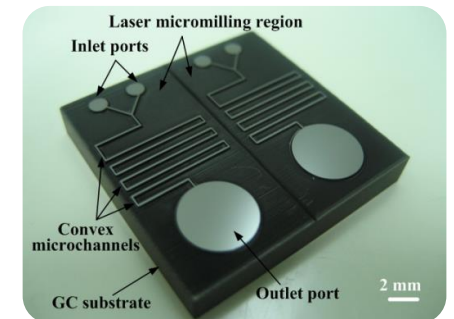
- System design and integration for laser processing machine
- Micro/nano laser processing
- Novel metal additive manufacturing technology
- Development and application of graphene and MXene composite materials
- Smart sensing technology
- Development of key components and systems for semiconductor
- Development of medical devices

Recent Topics



雷射圖案化石墨烯應變感測器於玻璃基板變形檢測

Laser patterning of graphene-based strain sensors for the deformation inspection of glass substrates



雷射微銑削微流道結構於玻璃碳模具  
Laser micromilling onto the glassy carbon mold with microfluidic channel structures