

國立台灣大學技術行銷表

台大案號: _____ (由產學組填寫)

產學合作中心聯絡人:

電話:

e-mail:

產品/技術名稱	雙能障超晶格整合量子井紅外線偵測器適用於高溫操作
發明人/單位	台大
產品/技術說明	設計新結構及新製程以達到目前此類元件的最高溫操作並且可以達到一個適用的偵測率。
應用範圍	可應用在近中紅外線的偵測，可應用在民生及軍事上。
產品/技術優勢	新結構並使用較簡易的製程達到高偵測率高溫操作，並使偵測範圍在近中紅外線範圍可以調變。
市場潛力	生醫檢測及軍事遙測及半導體應用均可以使用此偵測器，用穩定製程且低成本達到應用需求。
產品/技術 智財權保護方式	

Marketing Abstract of NTU's Invention Disclosure

NTU's docket no: _____ (由技轉室填寫)

TTO contact :

Tel :

e-mail :

Title	Double-Barrier Superlattice Infrared Photodetector Combined with Quantum Well Infrared Photodetector for Operation at High Temperature.
Inventor (s)	National Taiwan university
Brief Description	We design a new structure and utilize new process to fabricate this structure into a new photodetector which can be operated at high temperature with appropriate detectivity.
Fields of Application	This photodetector can detect signals in near and mid infrared regimes especially in civil, biology and military application.
Advantages	New structure uses special fabrication method to achieve high temperature operation and appropriate detectivity. The detection wavelength can be modified in near and middle infrared region.
Market Potential	Biology detection, military monitoring and semiconductor application can use this new designed photodetector which has the steady process and low cost to achieve the requests of detection.
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