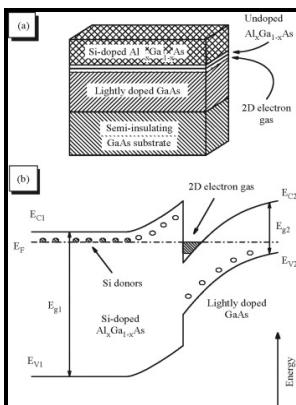


# Fabrication and physical properties of germanium-silicon alloyed heterojunctions.

University of Salford - From Crystalline Germanium



Description: -

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## Lattice Parameter and Density in Germanium

A design rule may establish a maximum taper length in the range of 0. In images e, f, representative Raman and PL spectra of the pristine MoSe<sub>2</sub> and converted MoS<sub>2</sub> regions. The Si CMOS platform is advantageous over III-V semiconductor based platform because of a short time-lag between basic research and commercialization in terms of the standardized materials and processes.

## Heteroepitaxy of germanium silicon on silicon utilizing alloying control

High-angle annular dark-field atomic resolution scanning transmission electron microscopy STEM may be utilized to reveal that converted MoS<sub>2</sub> is comparable in quality to a pristine material, with sharp ~5 nm heterojunction boundaries. Another key technology is polarization manipulation for reducing polarization dependence.

## Prof. Kazumi Wada Profile

In some cases, a detector comprising germanium may comprise an integrated germanium waveguide. Nano Letters 2019, 19 6 , 3654-3662.

## 0614.2,Section II group metal element and its compounds

X-ray absorption spectroscopy supports the oxidation of both iron and selenium at high states of charge, while Raman spectroscopy indicates the formation of Se—Se dimers in Li<sub>2</sub>FeSe<sub>2</sub> upon Li deintercalation, providing insight into the charge mechanism of the Li-rich iron chalcogenides. The one or more computing apparatuses may comprise a mainframe, a super computer, a PC or Apple Mac personal computer, a hand-held device, a smart phone, or any other suitable apparatus having a central processing or controller unit known in the art. For example, the computer system 420 may control the PLD system 400 the electron beam lithography system 624 in accordance with the descriptions of FIGS.

## Introduction

Silica or , as sand, is a principal ingredient of glass, one of the most inexpensive of materials with excellent mechanical, optical, thermal, and

electrical properties. According to the current invention, the horizontal germanium silicon heterostructure photodetector may be optically coupled to an on-chip or off-chip waveguide.

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