



# Debbie G. Senesky

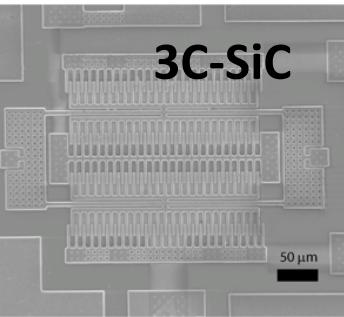
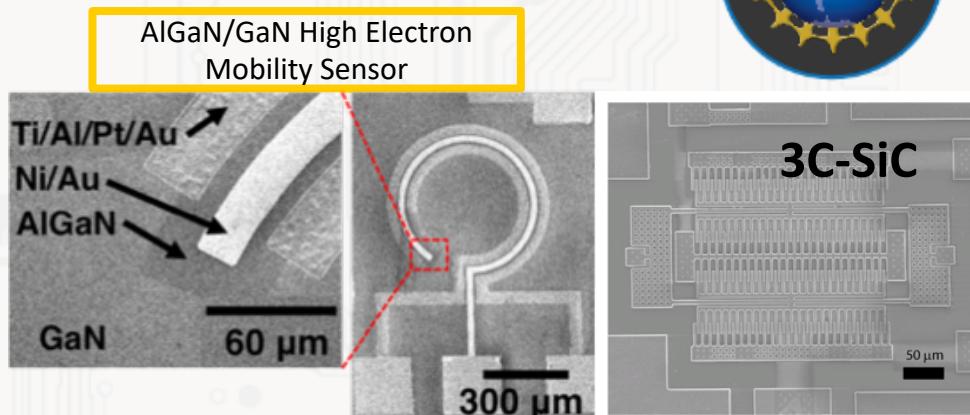
## Stanford University

AN NSF  
SPONSORED  
CENTER



- Design of GaN & SiC sensors & electronics
- Micro- & nano-fabrication of GaN & SiC structures/devices
- High-temperature (up to **600°C!**) electrical and materials characterization

EXtreme Environment Microsystems Lab (XLab)  
<http://xlab.stanford.edu>

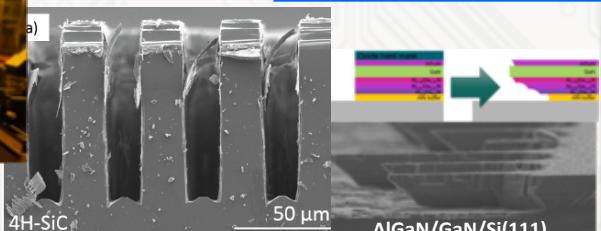


GaN & SiC Sensors & Electronics

Silicon carbide (SiC) MEMS Sensor



Stanford Nanofabrication Facility (SNF)

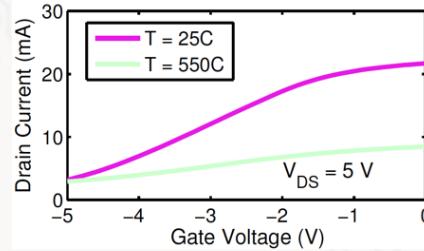


Deep plasma etching of 4H-SiC

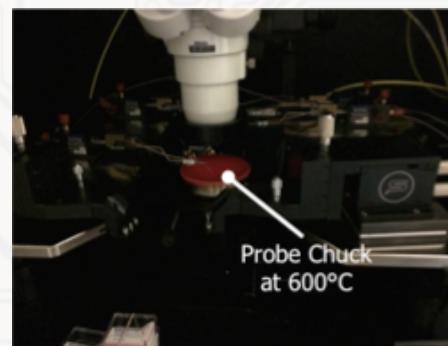
MOCVD and release of AlGaN/GaN

Nanofabrication in Stanford Facility

High-temperature characterization



Current-voltage response of AlGaN/GaN transistor at 550°C!



High-temperature (600°C) probe station