

Fig. 1) Demonstration of nickel wet etching down to 1 μm.

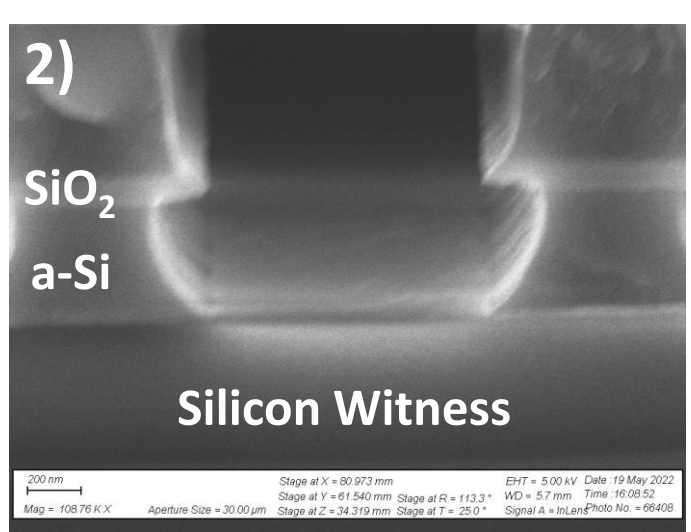


Fig. 2) XeF₂ undercut of the amorphous silicon layer for the lift-off process.

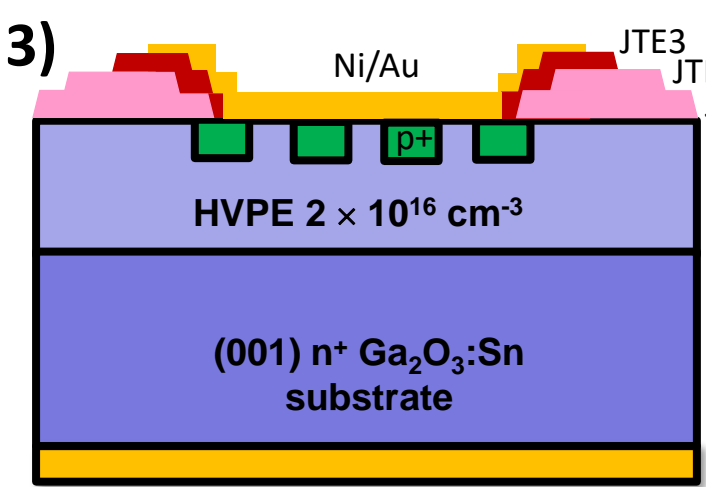


Fig. 3) Schematic of the Ga₂O₃ NiO JBS diode with NiO junction termination extension.

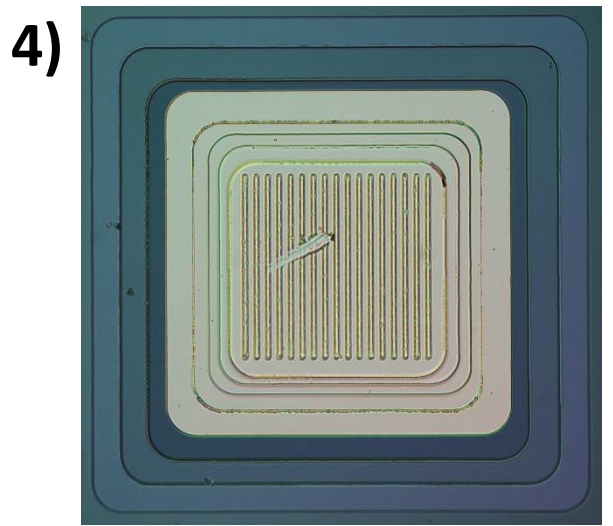


Fig. 4) Fully fabricated Ga₂O₃ NiO.

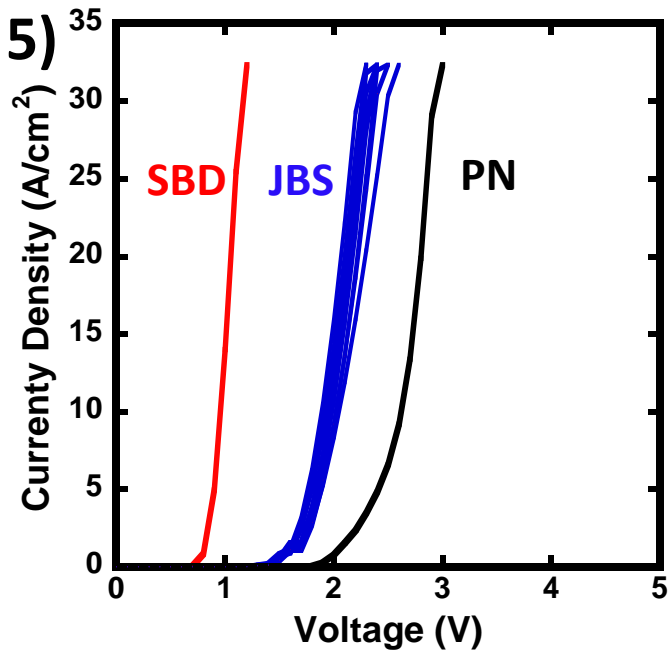


Fig. 5) Forward J-V characteristics.

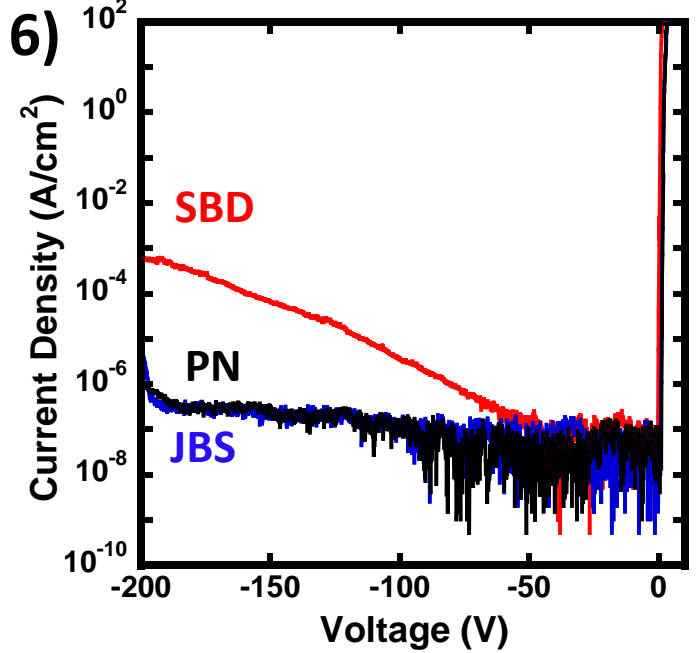


Fig. 6) Reverse J-V characteristics.

Abstract References:

[1] Spencer, J.A., et al. *Applied Physics Reviews*, 9.1 (2022): 011315 2022
 [2] Lv, Y., et al. *IEEE Transactions on Power Electronics* 36.6 (2020): 6179-6182
 [3] Gong, HH., et al. *Applied Physics Letters* 118.20 (2021): 202102
 [4] Wang, B., et al. *IEEE Electron Device Letters* (2022).