



Omar Badr Mohammed

Degrees:

PhD in electrical and computer engineering from University of Texas at Austin in 2019

MSc in electrical engineering/solid state electronics from University of Mosul in 2011

BSc in electrical engineering/electronics and communications from University of Mosul in 2007

Research Interests:

Nanotechnology

Solid state electronics

Publications:

- ReS<sub>2</sub>-based interlayer tunnel field effect transistor
- Two Terminal Devices Based on Two-Dimensional Materials
- Tunnel Barrier Thickness, Interlayer Rotational Alignment, and Top Gating Effects on ReS<sub>2</sub>/hBN/ReS<sub>2</sub> Resonant Interlayer Tunnel Field Effect Transistors
- Resonant Interlayer Tunneling in 2D Van Der Waals-Materials-Based Channel-Dielectric-Channel Systems and Possible Device and Circuit Applications
- Design and Fabrication of Narrow Band Infrared Detector