

目次

1. Si 基板上縦型 GaN MOSFET の試作とその特性改善に関する研究	1
2. 本研究に関連した発表・論文	57
[1] Demonstration of fully-vertical GaN-on-Si power MOSFETs using regrowth technique	57
[2] High-breakdown-voltage AlGaN-channel metal-insulator-semiconductor heterostructure field-effect transistors employing a quaternary AlGaInN barrier layer and an Al ₂ O ₃ gate insulator....	59
[3] Effect of In composition on electrical performance of AlInGaN/GaN-based metal-insulator-semiconductor high electron mobility transistors (MIS-HEMTs) on Si	63
[4] Trap state characterization of Al ₂ O ₃ /AlInGaN/GaN metal-insulator-semiconductor heterostructures	69
[5] Electron-spin-resonance studies of AlGaN/GaN MIS-HEMT structures with Al ₂ O ₃ fabricated by atomic layer deposition	75
[6] A 300 nm thick epitaxial AlInN film with a highly flat surface grown almost perfectly lattice-matched to <i>c</i> -plane free-standing GaN substrate.....	78
教職員名簿	82