

Jarod Meyer

Ph.D. Student in Materials Science and Engineering, admitted Autumn 2020

Bio

BIO

Jarod is a PhD Student working on the Molecular Beam Epitaxy of Pb-salt, narrow-bandgap semiconductors for mid-IR optoelectronics.

HONORS AND AWARDS

- NSF-GRFP Honorable Mention, National Science Foundation (2022)

Publications

PUBLICATIONS

- **Mid-wave infrared photoluminescence from low-temperature-grown PbSe epitaxial films on GaAs after rapid thermal annealing** *APPLIED PHYSICS LETTERS*
Meyer, J. E., Nordin, L., Nguyen, T., Mukherjee, K.
2023; 123 (13)
- **Versatile strain relief pathways in epitaxial films of (001)-oriented PbSe on III-V substrates** *PHYSICAL REVIEW MATERIALS*
Haidet, B. B., Meyer, J., Reddy, P., Hughes, E. T., Mukherjee, K.
2023; 7 (2)
- **Bright mid-infrared photoluminescence from high dislocation density epitaxial PbSe films on GaAs** *APL MATERIALS*
Meyer, J., Muhowski, A. J., Nordin, L., Hughes, E., Haidet, B., Wasserman, D., Mukherjee, K.
2021; 9 (11)
- **Interface structure and luminescence properties of epitaxial PbSe films on InAs(111)A** *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A*
Haidet, B. B., Nordin, L., Muhowski, A. J., Vallejo, K. D., Hughes, E. T., Meyer, J., Simmonds, P. J., Wasserman, D., Mukherjee, K.
2021; 39 (2)
- **Systematic study of shockley-read-hall and radiative recombination in GaN on Al₂O₃, freestanding GaN, and GaN on Si** *JOURNAL OF PHYSICS-PHOTONICS*
Meyer, J., Liu, R., Schaller, R. D., Lee, H., Bayram, C.
2020; 2 (3)