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Ph.D. Student in Electrical Engineering, admitted Autumn 2016

Publications

PUBLICATIONS

- **A Comprehensive Study of WSe₂ Crystals Using Correlated Raman, Photoluminescence (PL), Second Harmonic Generation (SHG), and Atomic Force Microscopy (AFM) Imaging** *SPECTROSCOPY*
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- **High-performance flexible nanoscale transistors based on transition metal dichalcogenides** *NATURE ELECTRONICS*
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- **Stacking Independence and Resonant Interlayer Excitation of Monolayer WSe₂/MoSe₂ Heterostructures for Photocatalytic Energy Conversion** *ACS APPLIED NANO MATERIALS*
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- **Improved Current Density and Contact Resistance in Bilayer MoSe₂ Field Effect Transistors by AlO_x Capping.** *ACS applied materials & interfaces*
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- **Plasmon-Resonant Enhancement of Photocatalysis on Monolayer WSe₂** *ACS PHOTONICS*
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- **3D Heterogeneous Integration with 2D Materials**
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- **Dry Transfer of van der Waals Crystals to Noble Metal Surfaces To Enable Characterization of Buried Interfaces.** *ACS applied materials & interfaces*
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- **Nanoscale Heterogeneities in Monolayer MoSe₂ Revealed by Correlated Scanning Probe Microscopy and Tip-Enhanced Raman Spectroscopy** *ACS APPLIED NANO MATERIALS*
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2018; 1 (2): 572-579
- **Investigation of Monolayer MX₂ as Sub-Nanometer Copper Diffusion Barriers**
Smithe, K. H., Zhu, Z., Bailey, C. S., Pop, E., Yoon, A., IEEE
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