

Recent publications:

“Radio Frequency Reflectometry Scanning Tunneling Microscope”, I, J, Chan, H. H. Li, Woei Wu Pai*

Taiwan, US (US88663311), German, and China patents granted

Tuning the magnetic anisotropy at a molecule-metal interface”, **Phys. Rev. Lett.**, 24, 247203 (2015).

NbS₃: A unique quasi-one-dimensional conductor with three charge density wave transitions, **Phys. Rev. B**, 95, 035110 (2017)

Tunable Se vacancy defects and the unconventional charge density wave in 1T-TiSe₂-delta, **Phys. Rev. B**, 045310 (2017)

Investigating ultraflexible freestanding graphene by scanning tunneling microscopy and spectroscopy, **Phys. Rev. B**, 085433 (2017)

Emergence of charge density waves and a pseudogap in single-layer TiTe₂, **Nature communication**, 516, DOI: 10.1038/s41467-017-00641 (2017)

Near room temperature chemical vapor deposition of graphene with diluted methane and molten gallium catalyst, **Scientific Reports**, 7, Article No. 12371 (2017)

Dual phase single layer germanene on Ag(111), **Physical review Materials**, 2, 024003 (2018)

Characterization of external potential for field emission resonances and its applications on nanometer-scale measurements, **New Journal of physics**, 20, 043014 (2018)

Quantum-spin-Hall insulator with a large gap: single-layer 1T' WSe₂, **Nature communication**, DOI: 10.1038/s41467-018-04395-2(2018)

Unique gap structure and symmetry of the charge density wave in single-layer VSe₂, **Phys. Rev. Lett.**, 121, 196402 (2018)

The basic and the charge density wave modulated structures of NbS₃-II, **Phys. Rev. B**, in press (2018)

Substrate-mediated umklapp scattering at the incommensurate interfaces of mono atomic layers. **Phys. Rev. B**, submitted.