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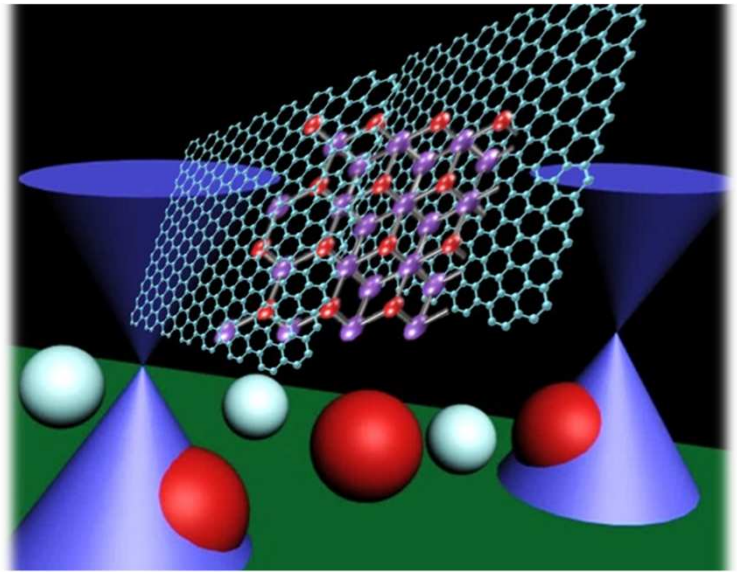

Materials investigated: semiconductor crystals including III-V, III-VI and IV-VI compounds and nanostructures; novel two-dimensional (2D) van der Waals crystals (e.g. InSe and GaSe) and their combination with graphene to create new functional materials.

Methods used: epitaxial growth of van der Waal crystals, device fabrication, electron microscopy imaging and analysis, Raman and photoluminescence spectroscopy, high magnetic fields, dc and ac transport.

Applications: electronic and photonic devices.

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