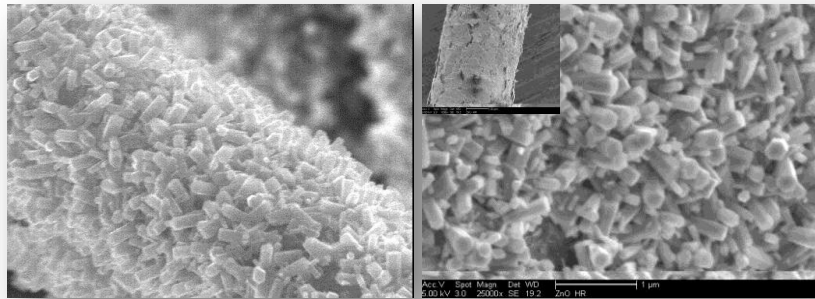


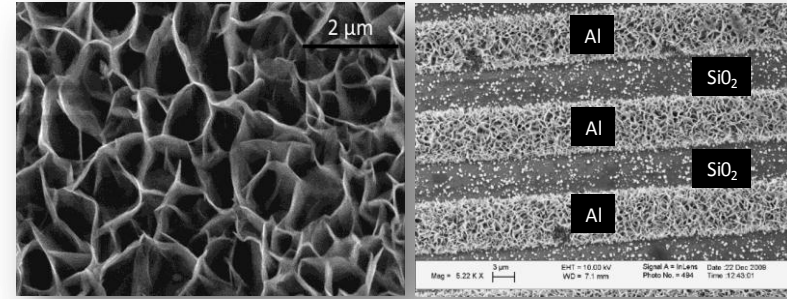
Synthesis of Crystalline ZnO Nanorods and Nanoflakes on Arbitrary Substrates at Ambient Conditions

Nezih Pala, M. Saif Islam and Wonbong Choi

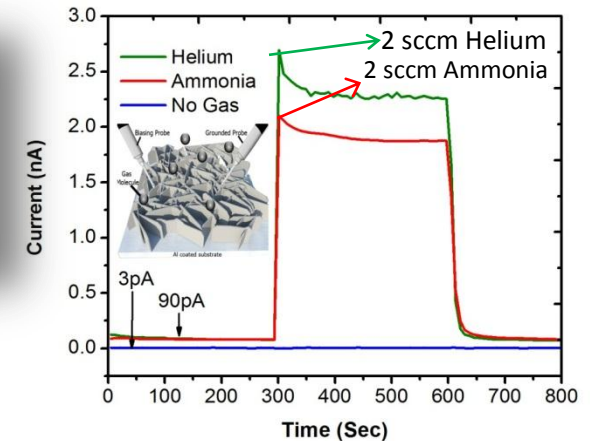
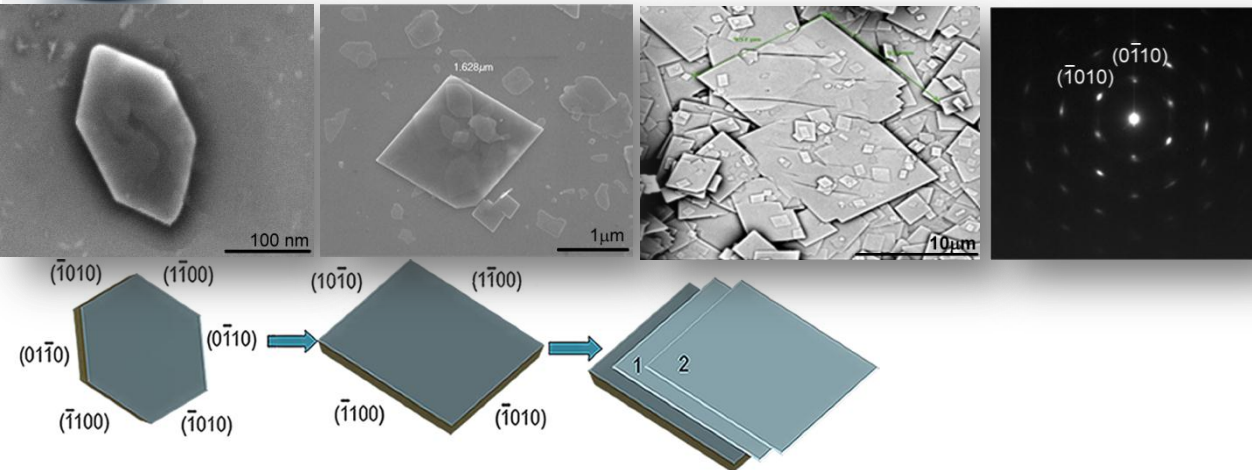
GOAL: High throughput and scalable synthesis of 1D and 2D ZnO nanostructures using a simple sonochemical technique in aqueous solutions on arbitrary substrates at ambient conditions.



ZnO nanowires on cotton fiber and human hair



ZnO nanowalls on Aluminium



ZnO nanoflakes on Si, SiO₂, metal foils and Graphene