

Sang M. Han, Regents Professor, CBE/ECE/NSME, UNM



Regents Professor of Chemical & Biological Engineering and Electrical & Computer Engineering; Director of NanoScience & MicroSystems Engineering; Chief Technical Officer of Osazda Energy LLC

25+ years experience in electronic materials science and engineering and device fabrications

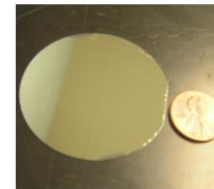
Member: AVS, MRS, ECS

Recent Research Areas:

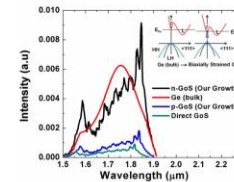
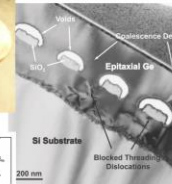
- Heteroepitaxial films on Si for photovoltaic, electronic, and sensor applications.
- Thermo-mechanically responsive material systems for quantum information.
- Metal matrix composite development for increased durability and reliability for photovoltaic devices.

- Coating technology development for radiative cooling (in collaboration with Prof. S.E. Han).
- Advanced light trapping technology development for silicon-based terrestrial photovoltaic devices (in collaboration with Profs. S.E. Han).

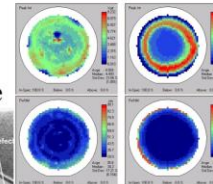
Wafer-Scale Heteroepitaxy



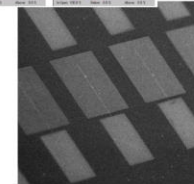
Engineered Architecture



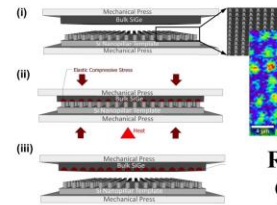
Group IV Emitters



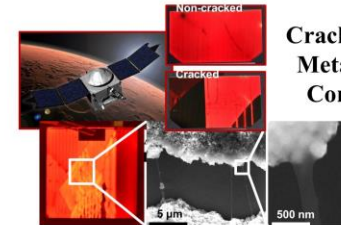
Multijunction III-V Solar Cells On Low-Cost Substrates



High-Mobility MESFETs & MOSFETs

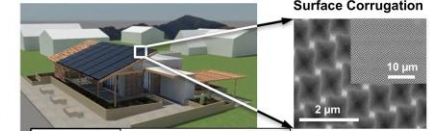


Rewritable Quantum Circuitry

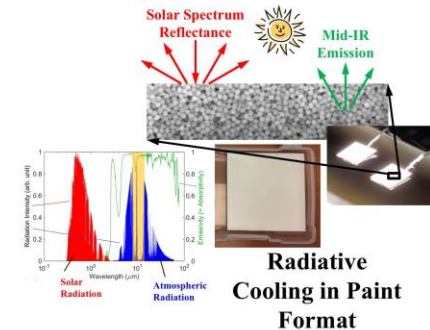


Crack-Tolerant Metal Matrix Composites

Advanced Light Trapping for Si PV



Reduced Symmetry Surface Corrugation



Radiative Cooling in Paint Format

