

Franklin Chau-Nan Hong (洪昭南 教授)

Professor

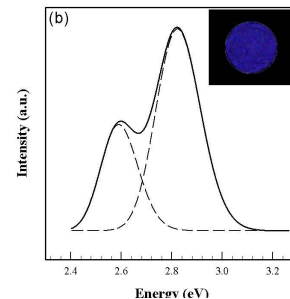
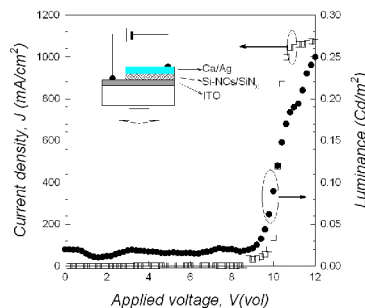
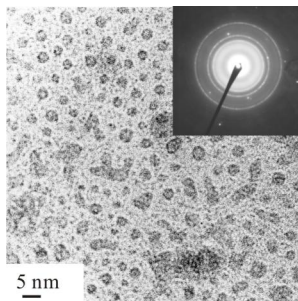


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|--------|---|------|
| B.S. | Chemical Engineering, National Tsing Hua University | 1978 |
| M.S. | Chemical Engineering, Northwestern University | 1981 |
| Ph.D. | Chemical Engineering, Northwestern University | 1984 |
| | Central Research, Du Pont Company | 1986 |
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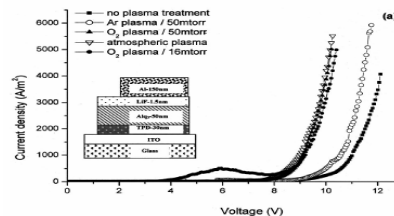
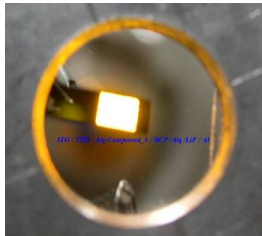
Research Interests:

Nanodevices and Nanotechnology Laboratory

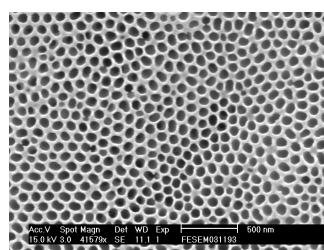
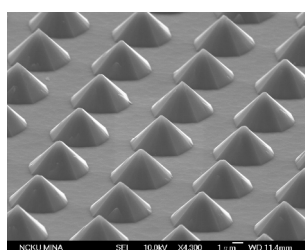
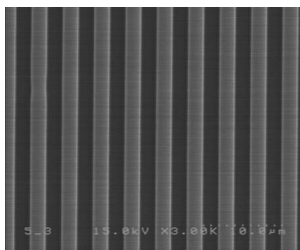
(1) Quantum-dot optoelectronic devices for flat panel displays and optoelectronic integrated circuits (OEIC)



(2) Organic light emitting diode devices and Flexible displays

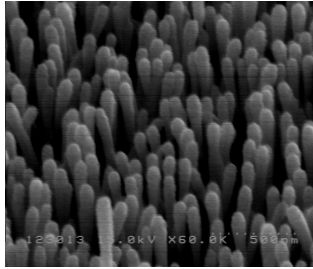


(3) Nanoprinting technology and Nanopatterning

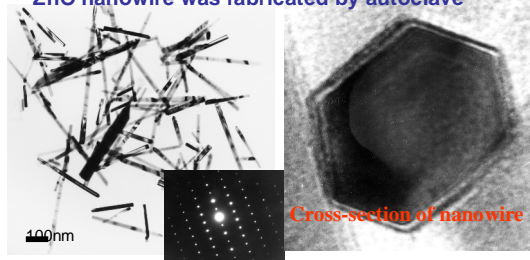


(4) Growths and applications of nanowires and nanotubes

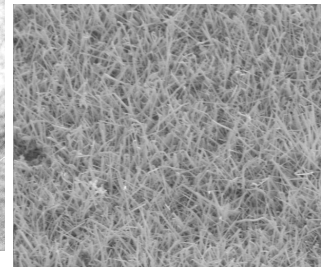
ZnO Nanowires



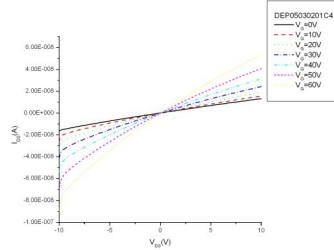
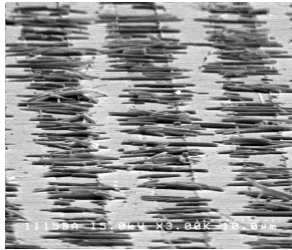
ZnO nanowire was fabricated by autoclave



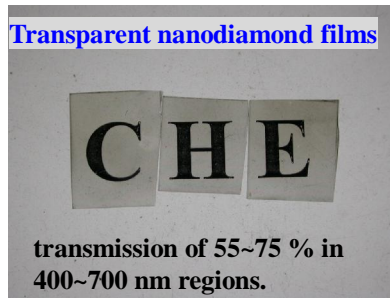
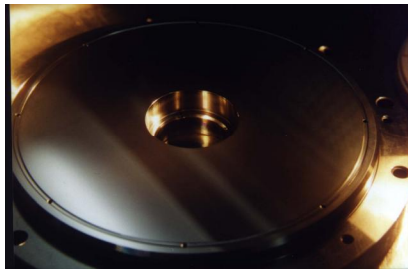
GaN Nanowires



(5) Thin Film Transistors (TFT) technology



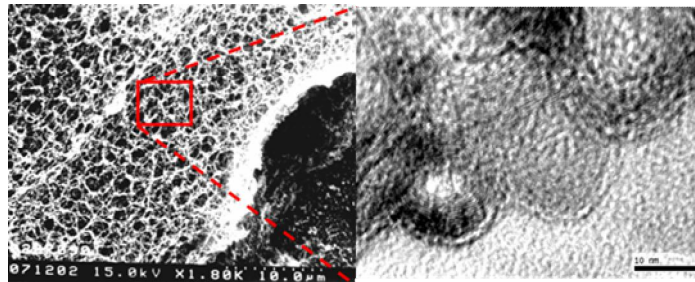
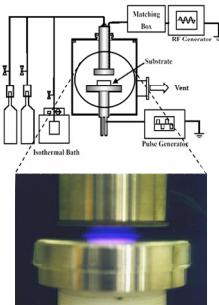
(6) Diamond-Like Carbon (DLC) nanocomposite and nanodiamond films



Free-standing diamond films for high-frequency diaphragms for speakers



(7) Atmospheric pressure plasma technology



(8) Novel particle-free hollow-cathode arc ion plating deposition

