



POETS

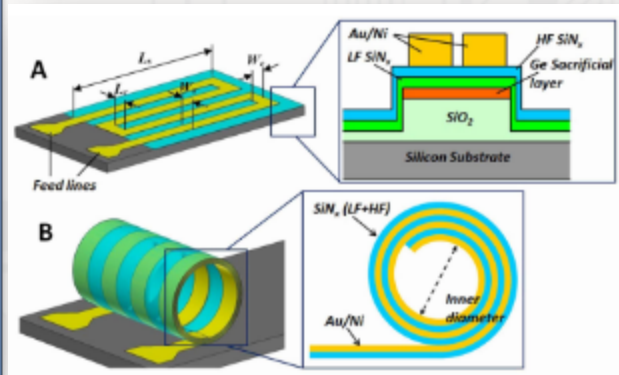
# Xiuling Li - University of Illinois

AN NSF SPONSORED CENTER



- Semiconductor materials and devices
- Self-rolled-up membrane (S-RuM) nanotechnology
- Miniaturization of passive electronic devices and components

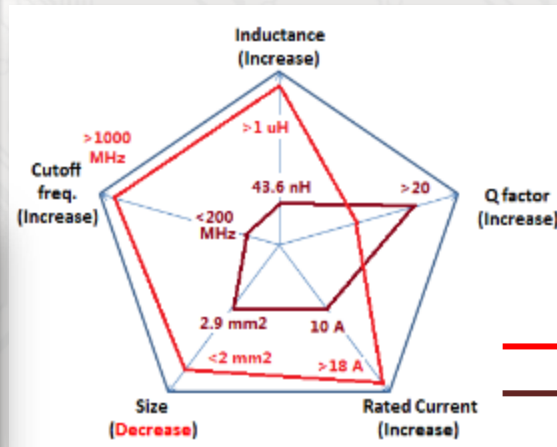
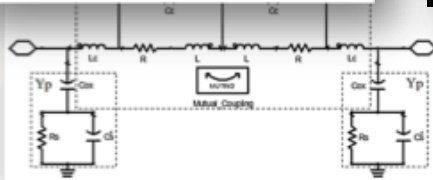
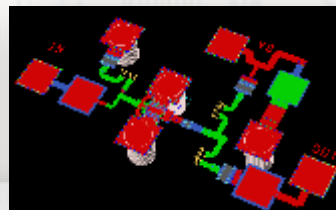
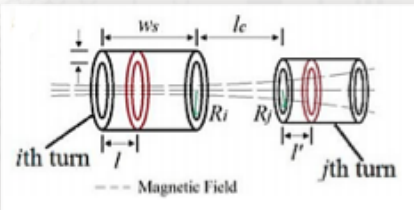
<http://mocvd.ece.illinois.edu>



Fabricated Cu-based S-RuM Inductors

Experimental approaches

## Physical Modeling and Design Integration



Management of Size, Inductance, Frequency, and Current Handling Capability

— S-RuM Power Inductor  
 — State-of-art on-chip power inductor