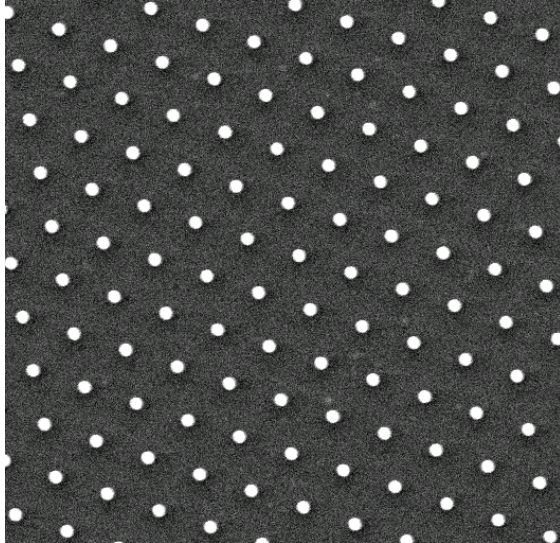


Plasmonic and Magneto-optical devices

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Electrical and Computer Engineering

- **This work focuses on fabrication of:**

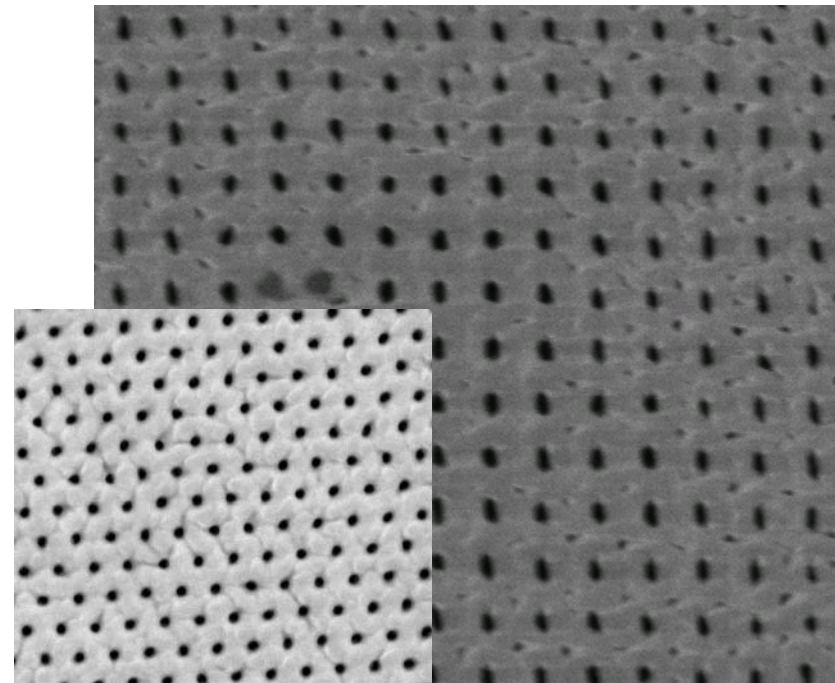
- ◆ Periodic plasmonic structures using periodic anodized aluminum (AAO) as template
- ◆ Magneto-photonic crystals using AAO as template



Si_3N_4 stamp for imprinting on films

- **Results and Observations:**

- ◆ Si_3N_4 stamp array with $\sim 100\text{nm}$ diameter pillars and 400nm inter-pillar spacing (both square and hexagonal arrays).
- ◆ Periodic AAO template achieved with square and hexagonal arrays



Periodic AAO template –square and hexagonal arrays