**Plasmonic and Magneto-optical devices**

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- This work focuses on fabrication of:
  - Periodic plasmonic structures using periodic anodized aluminum (AAO) as template
  - Magneto-photonic crystals using AAO as template

- Results and Observations:
  - Si$_3$N$_4$ stamp array with ~100nm diameter pillars and 400nm inter-pillar spacing (both square and hexagonal arrays).
  - Periodic AAO template achieved with square and hexagonal arrays

- **Si$_3$N$_4$** stamp for imprinting on films
- **Periodic AAO template** – square and hexagonal arrays