

Date: Sep. 15<sup>th</sup>, 2020

**Applicant:** 潘犀靈

**Eligibility:**

- Affiliation: Department of Physics/Institute of Photonics Tech, NTHU
- Research:
  1. Laser Science
  2. Ultrafast Optics and Optoelectronics
  3. THz Optics and Photonics
  4. Liquid Crystal Optics and Photonics

**Proposal Category: A**

**Service Requests to TOP Center:**

- Optical coatings: HR coating on HR silicon wafer, PR coating on fused silica substrate (100K NT to be paid to TOP by Oct.)

1. HR coating on HR silicon wafer:

substrate: HR silicon wafer from CLPan lab (diameter:4 inches, thickness:300um)

coating: HR(R>95% for AOI: 45deg) @750-850nm (for ultrafast Ti:sapphire laser used)

number: 5pcs

2. PR coating on fused silica substrate:

substrate: UVFS substrate from CLPan lab (diameter: 25.4mm, thickness: 6 mm)

coating:

S1:

(1)PR(R=5% for AOI: 0deg) @910-1000nm

(2)PR(R=10% for AOI: 0deg) @910-1000nm

(3)PR(R=15% for AOI: 0deg) @910-1000nm

S2:

AR coating <0.3%

number: 6 pcs in total (2pcs for each S1 coating)

**Budget Request to TOP Center:** 100k NT

**Results:**

(To be further updated)