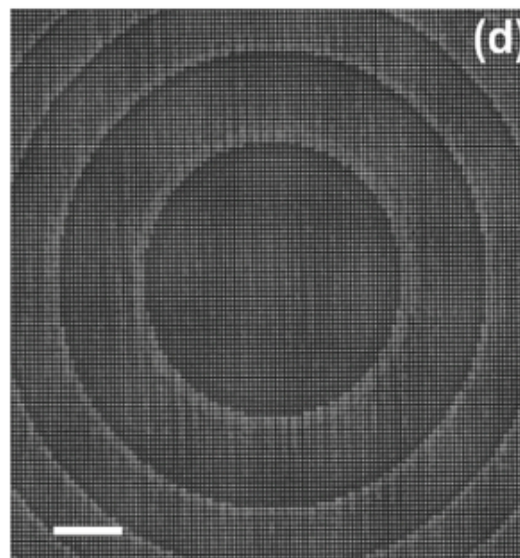
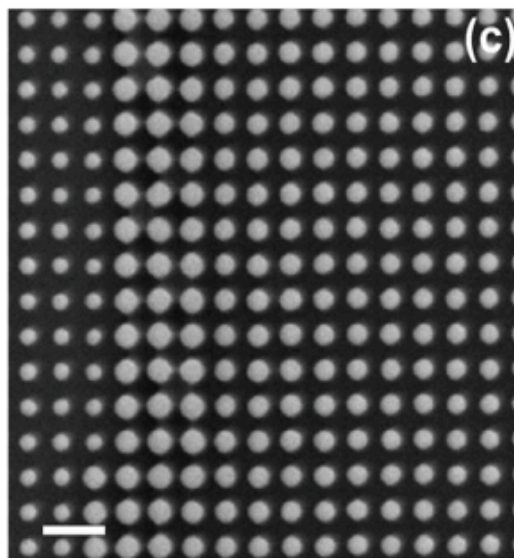
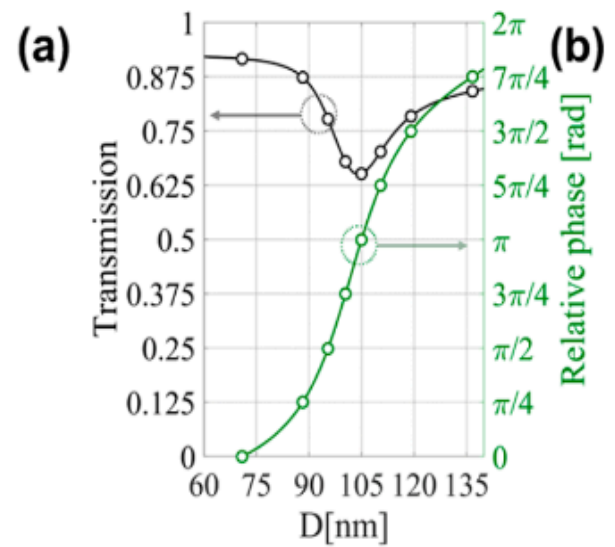
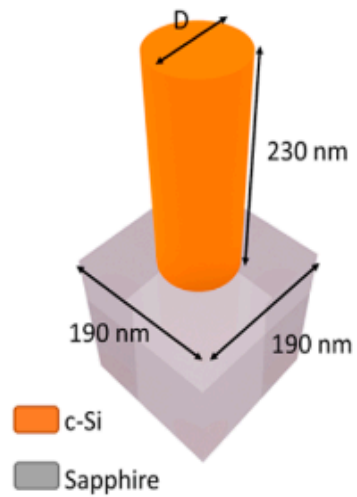
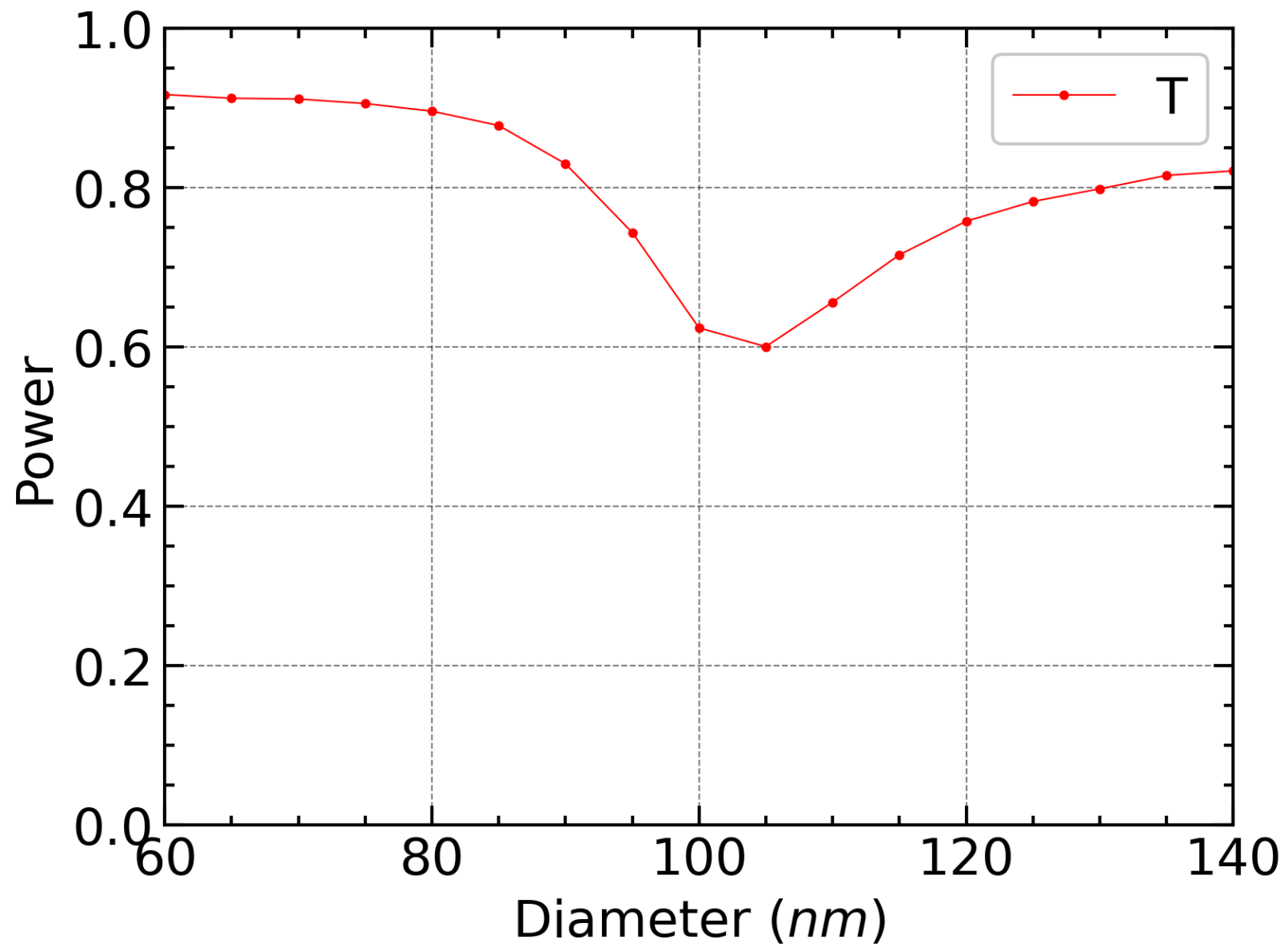


Wide FOV Metasurface

Yankun (Alex) Meng





```
1 # Import the necessary packages
2 import matplotlib.pyplot as plt
3 import numpy as np
4 import tidy3d as td
5 import tidy3d.web as web
6 import scienceplots
7
8 # Set logging level to ERROR to reduce output verbosity
9 td.config.logging_level = "ERROR"
```

```
1 # 0 Define a FreqRange object with desired wavelengths
2 lda0 = 0.532
3 freq0 = td.C_0 / lda0
4 print("%E" % freq0)
```

5.635197E+14

```
1 # 1 Computational Domain Size
2 h = 0.230 # Height of cylinder
3 spc = 1
4 Lz = spc + h + h + spc
5
6 Px = Py = P = 0.190 # periodicity
7 sim_size = [Px, Py, Lz]
```

```
1 # 2 Grid Resolution
2 dl = P / 32
3 horizontal_grid = td.UniformGrid(dl=dl)
4 vertical_grid = td.AutoGrid(min_steps_per_wvl=32)
5 grid_spec=td.GridSpec(
```