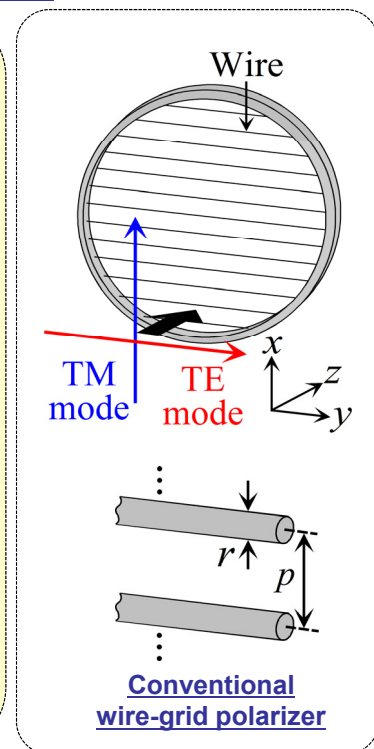
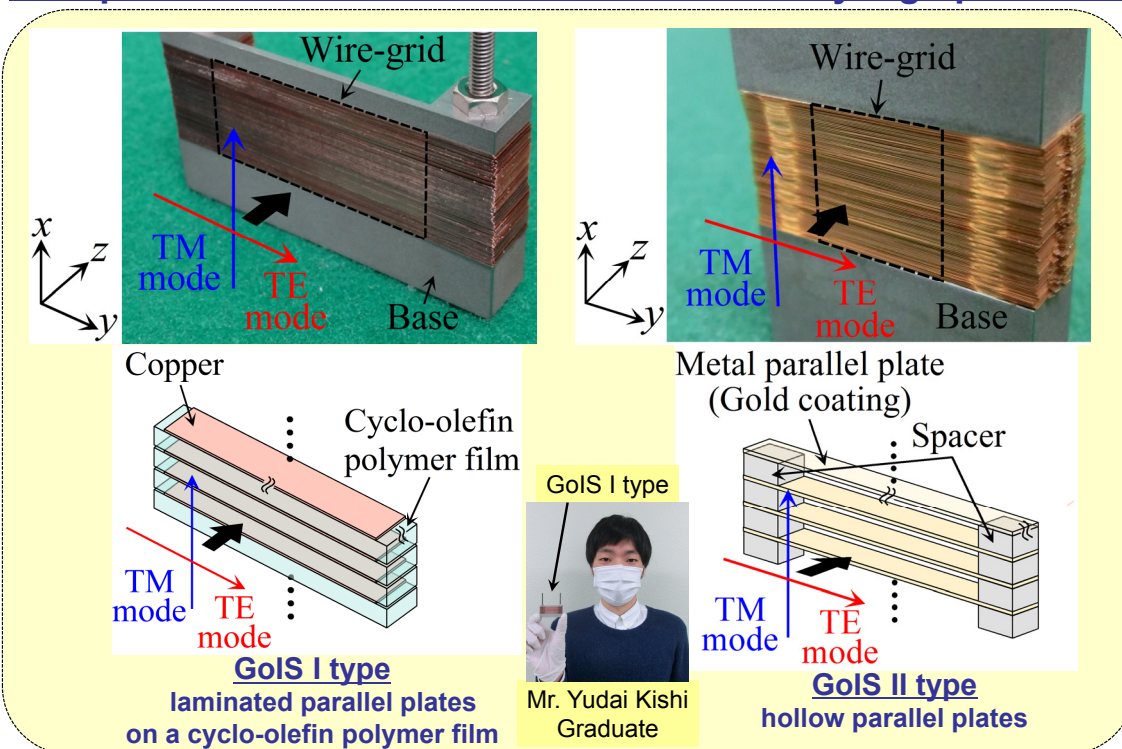


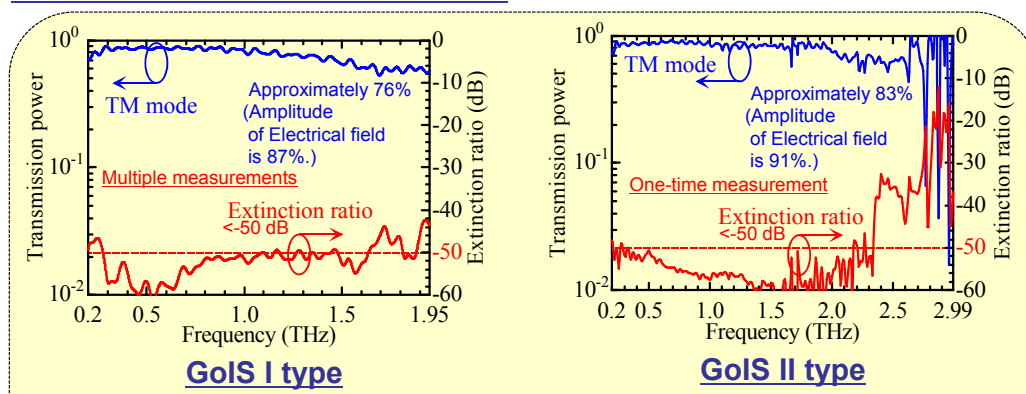
1. Background

- The polarizer is one of key components in terahertz polarization sensitive measurements, which often give fruitful information for terahertz technology innovations.
- The sophisticated design of a polarizer with both a high extinction ratio and high transmission power are strongly required.
- * The extinction ratio of conventional wire-grid polarizers is $10^{-2} \sim 10^{-4}$ (-20 dB~ -40 dB), even though the transmission power is approximately 100%. The simultaneous pursuit of both is extremely cumbersome for conventional structures.
- Robust structures and low cost should be required for the market.

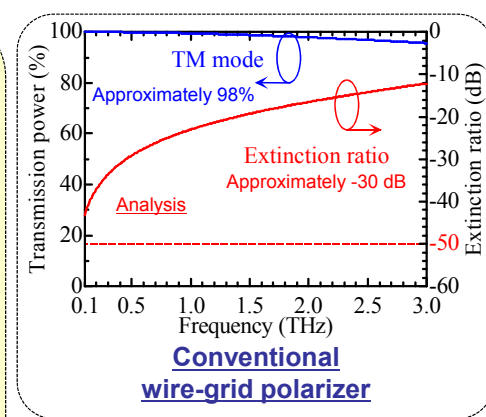
2. Sophisticated structures to realize extremely high performance



3. Innovation Achievements



These measurements were performed by Dr. Masaya Nagai in Osaka University.



- The polarizers, GoIS I and GoIS II, have the sophisticated structures and realize both a high extinction ratio below 10^{-5} (-50 dB) and an transmission power of approximately 80%.
- Both Polarizers can be supplied to the market with very robust and low cost compared to conventional wire-polarizers.

Patent Licensing Available

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