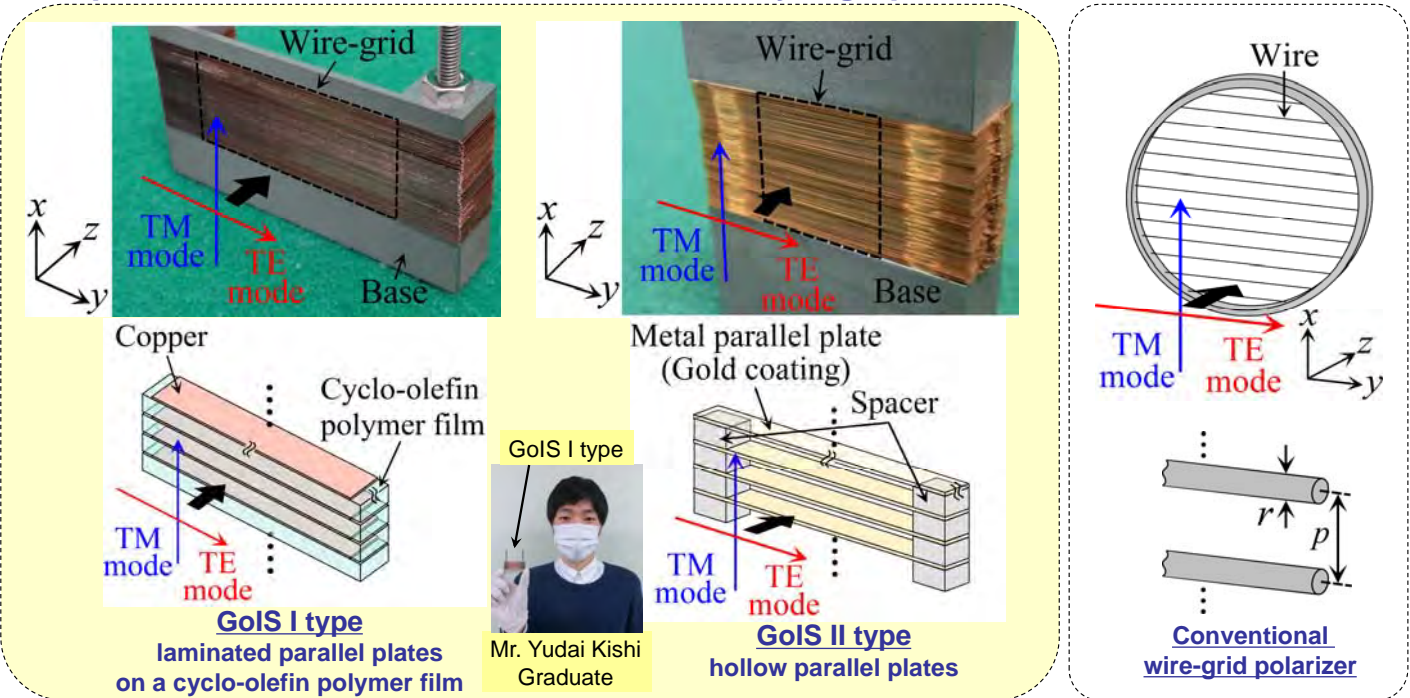


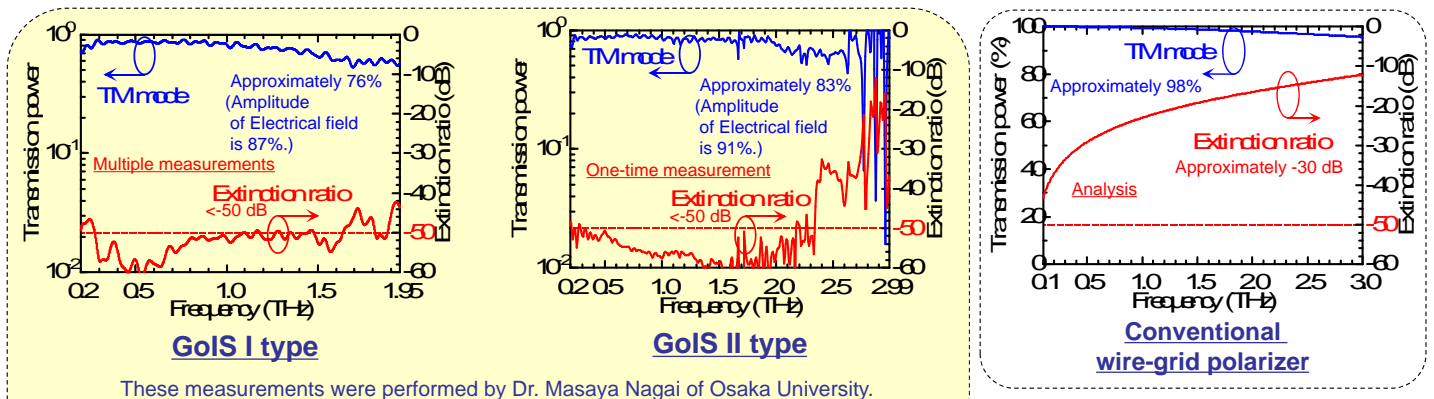
1. Background

- The polarizer is one of the key components in terahertz polarization sensitive measurements, which often gives fruitful information for terahertz technology innovations.
- The sophisticated design of a polarizer with both high extinction ratio and high transmission power is strongly required.
 - * The extinction ratio of conventional wire-grid polarizer 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



- The polarizers, GoIS I and GoIS II, have the sophisticated structures and realize both high extinction ratio below 10^{-5} (-50 dB) and transmission power of approximately 80%.
- Robust polarizers can be supplied to the market at much lower cost compared to the conventional wire-grid polarizers.

Patent Licensing Available

Patent No. : JP5626740
 PCT/JP2014/071866
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