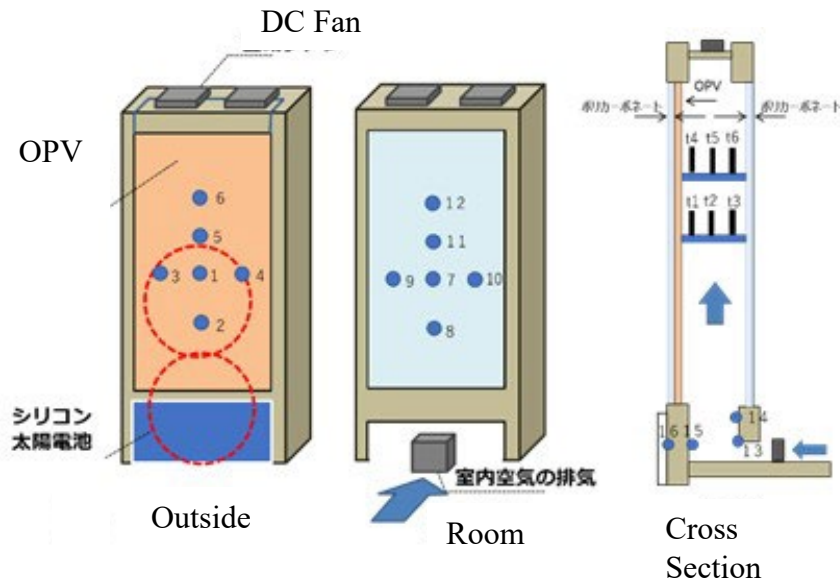


Organic Photovoltaic Sheets Applied for Air Flow Window (OPV-AFW) and 5G

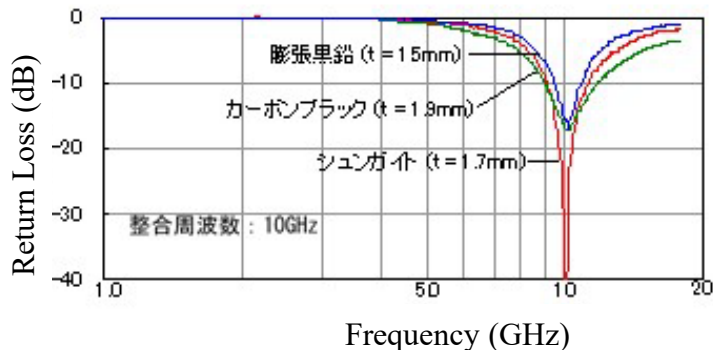
Application of Electromagnetic Absorbing Materials

Professor Kishio Hidaka

1. Organic Photovoltaic Sheets for Air Flow Window



2. Development of Electromagnetic Shielding or Absorbing Materials



Content:

We focus on the low carbon emission society. The semi-transparent OPV sheets fabricated on the air flow windows may realize a new ventilation system in zero emission future. Thermal management including electric power generation from the OPVs is promising equipment for building science.

Fifth generation (5G) becomes large interest in telecommunication. Application of shielding or absorbing materials in GHz band is required for communicating devices in 5G. We design and evaluate the candidate materials for proper use.

Appealing point: Short term research from design to application

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