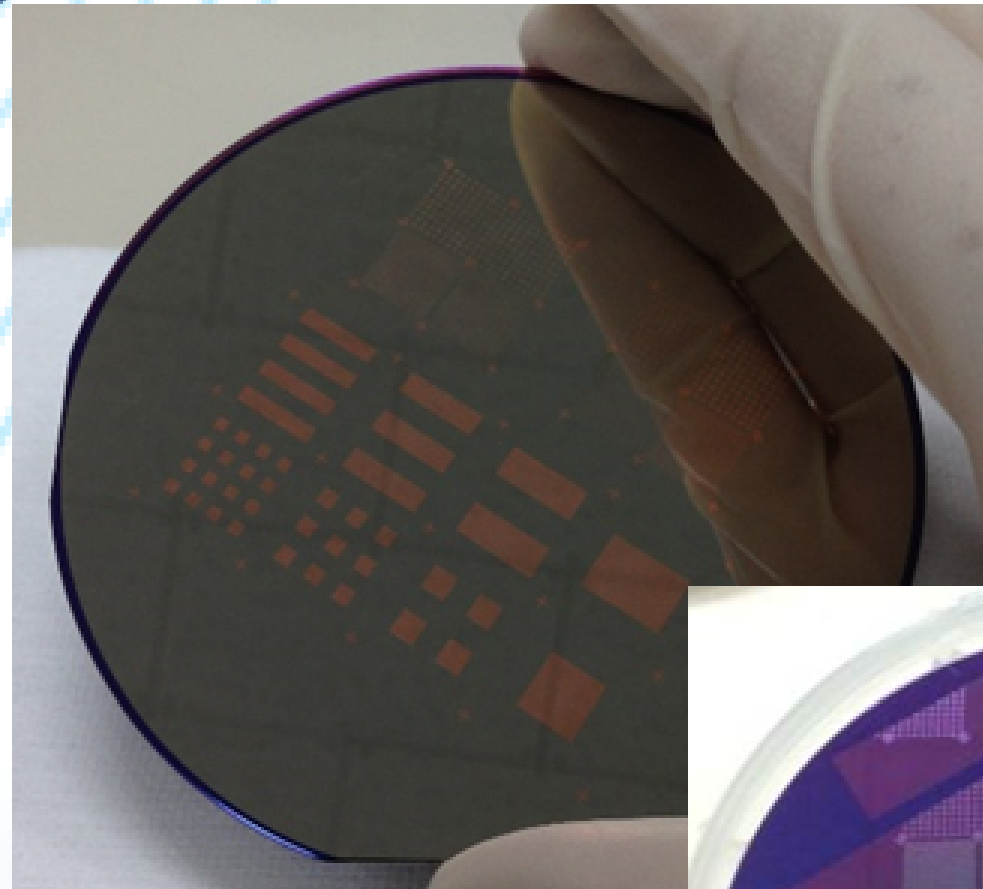


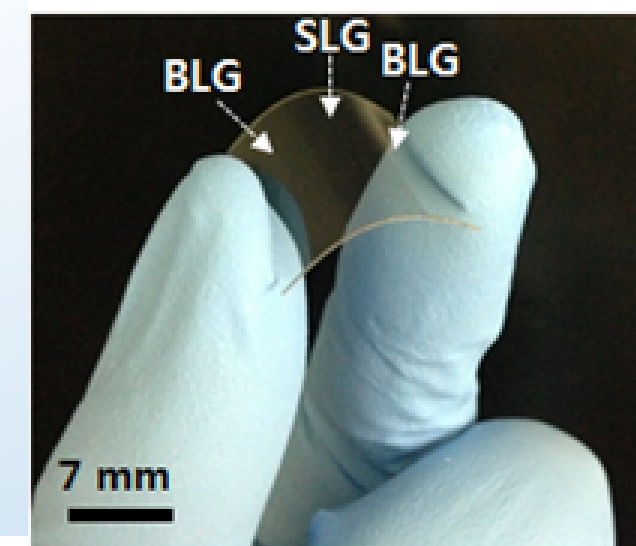
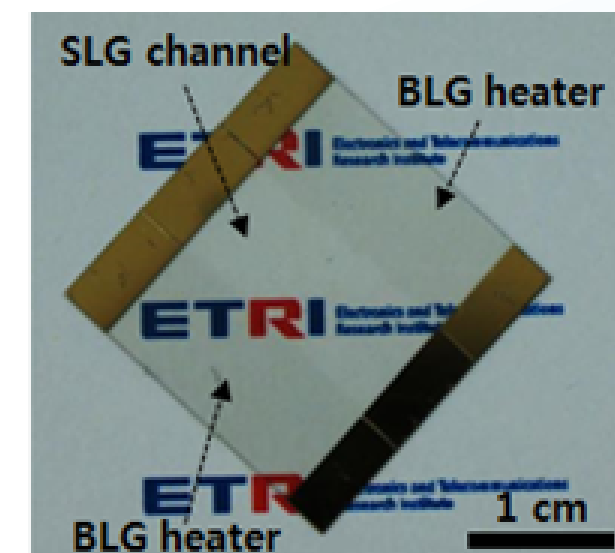
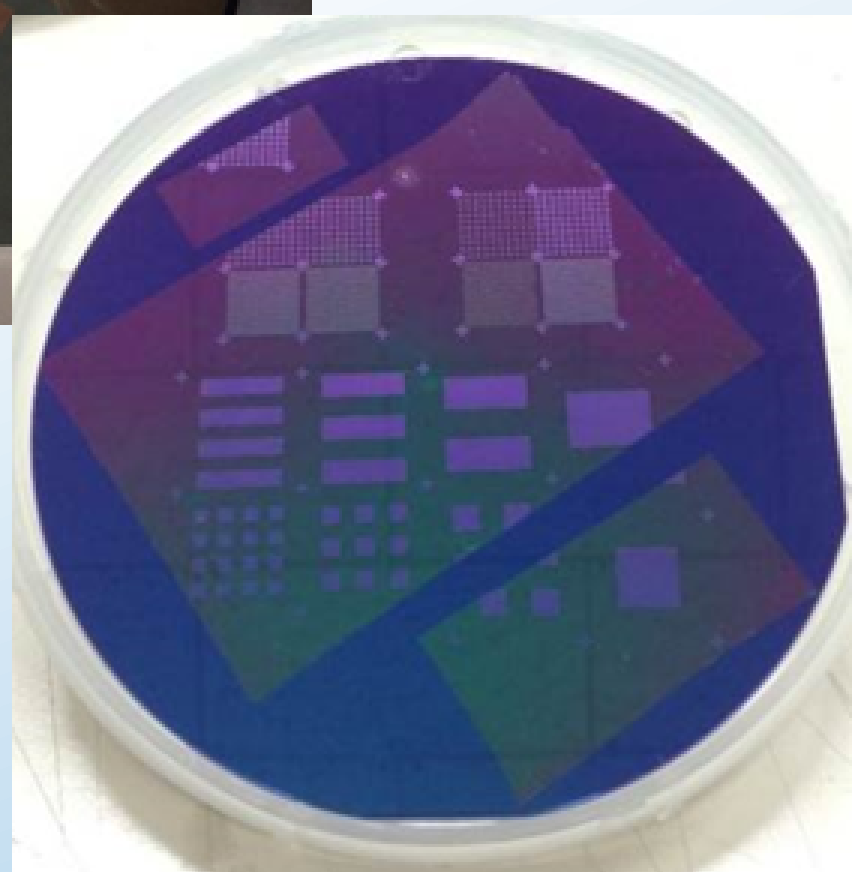
CVD BASED GRAPHENE SYNTHESIS AND CHEMICAL GAS SENSOR

Technology Overview

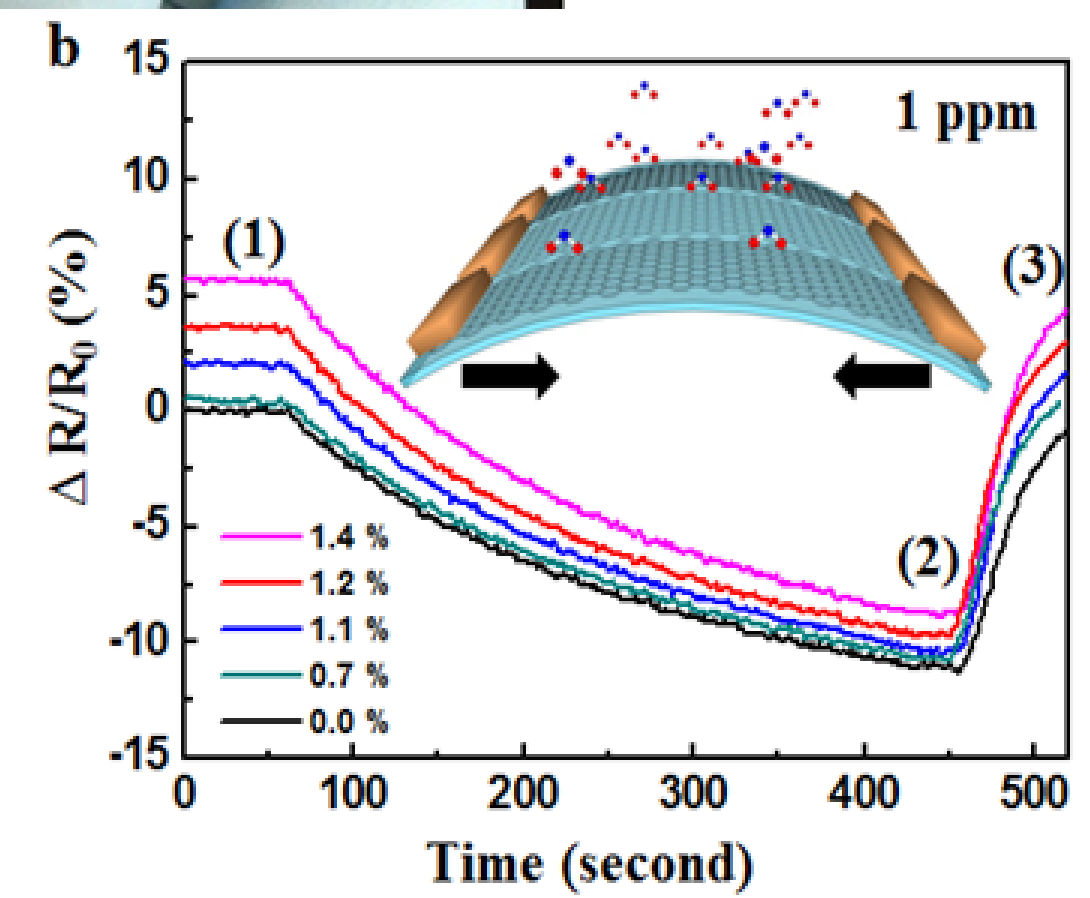
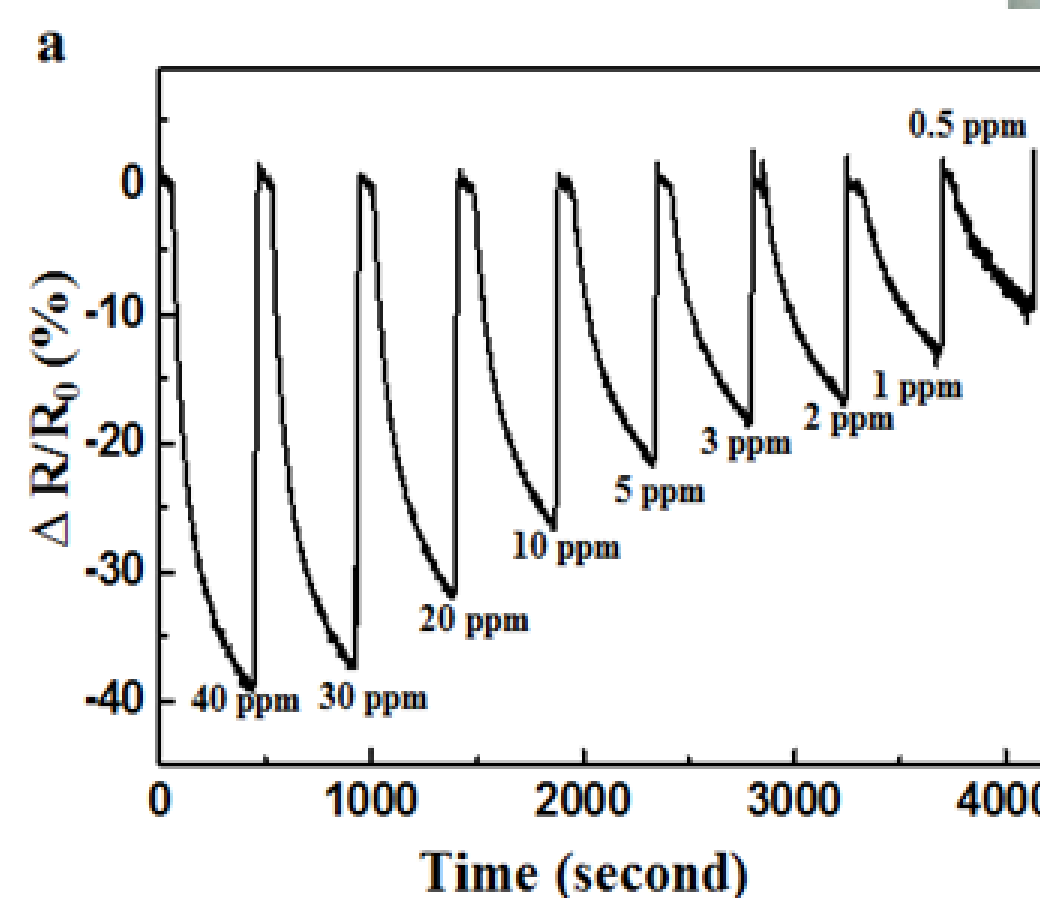
- Wafer-based high-quality graphene synthesis by chemical vapor deposition (CVD) and Large-scale high-sensitive flexible and transparent graphene chemical gas sensor integrated with graphene heating layers



Graphene wafers



Flexible and transparent graphene sensor



Core Technologies

- Single-layer graphene synthesis by CVD
- Multi-layer graphene synthesis by CVD
- Graphene layer control synthesis by metal alloy catalyst
- Graphene based thermal heater
- Graphene heater integrated graphene chemical gas sensor (flexible and transparent) streaming
- Document for graphene layer control synthesis process
- Document for high-quality water-scale graphene synthesis process
- Document for heater integrated chemical sensor fabrication process
- License for patents

Application Area and Advantages

- Water-based high-quality graphenes for electronics
- Transparent chemical sensors for vehicle windows and mirrors
- Flexible sensors for curved windows and surfaces