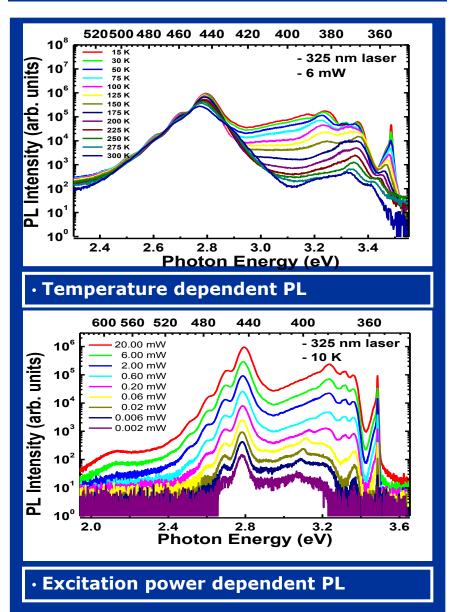
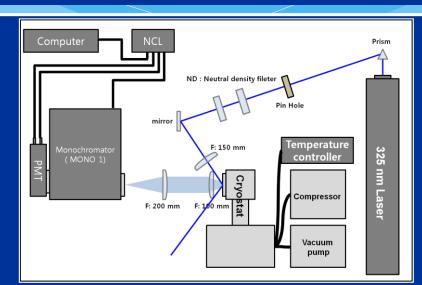
Photoluminescence (PL) System

PL Equipment



PL Spectra



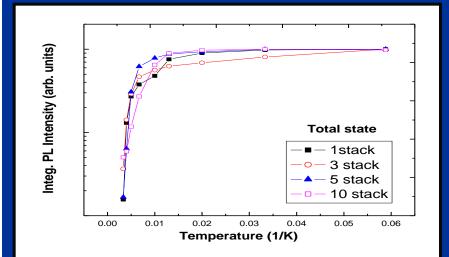


Photoluminescence (PL) spectroscopy is a contactless, nondestructive method of probing the electronic structure of materials. Specifically, light is directed onto a sample, where it is absorbed and imparts excess energy into the material in a process called "photo-excitation."

• One way this excess energy can be dissipated by the sample is through the emission of light, or luminescence.

 In the case of photo-excitation, this luminescence is called photoluminescence.
The intensity and spectral content of this PL is a direct measure of various important material properties.

Arrhenius Plot



• Temperature-dependent PL Arrhenius plot for PL efficiency with an increase temperature

PL Schematic