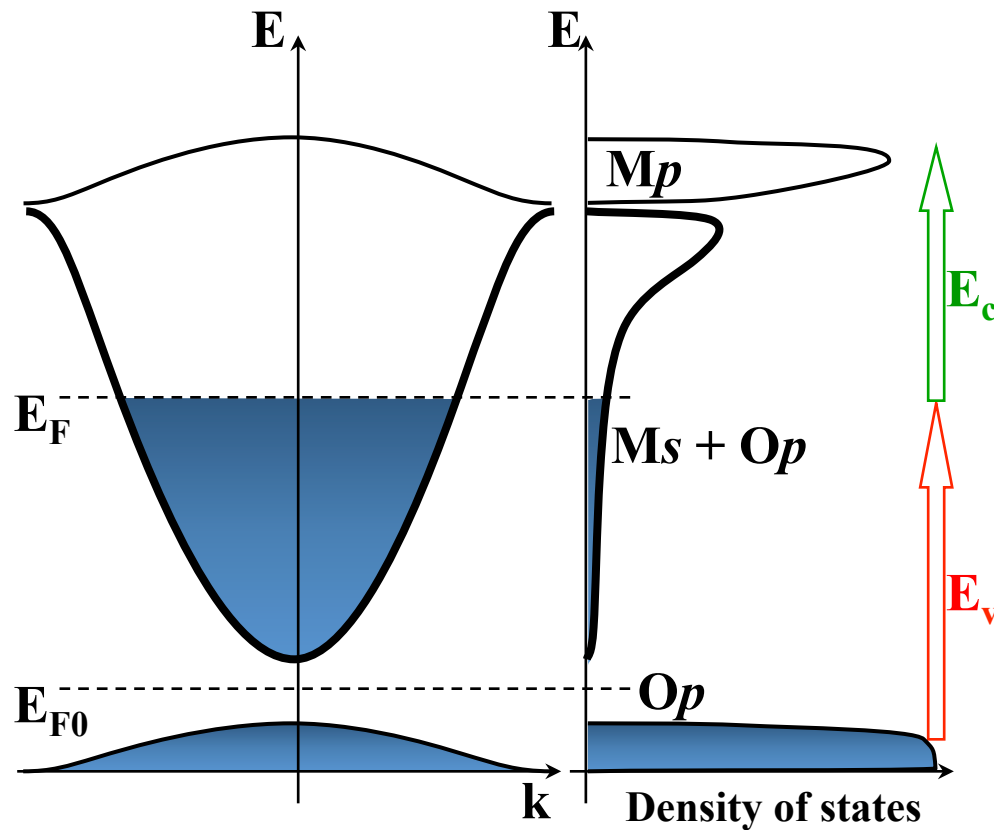
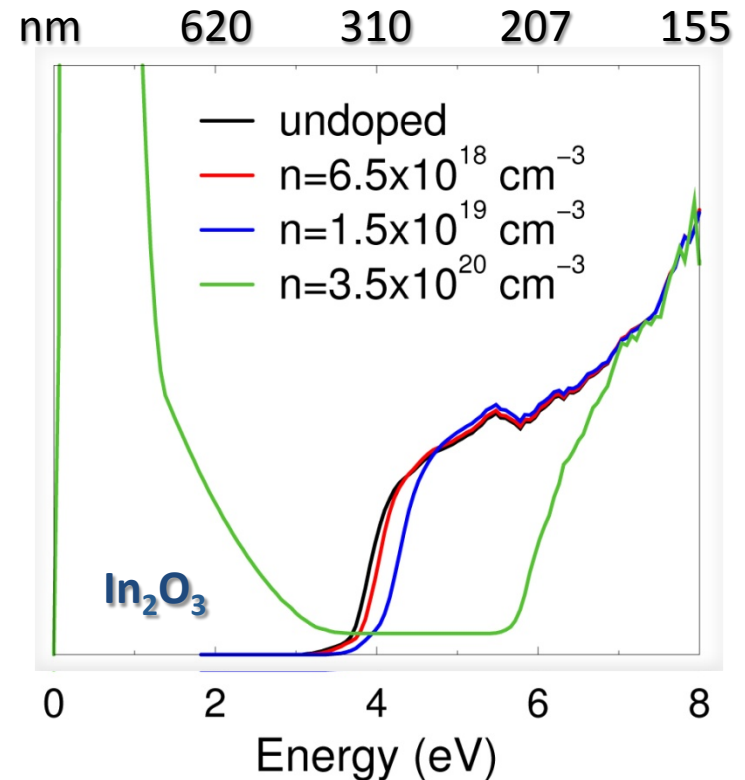


Transparent conductors: Basic properties



Imaginary part of dielectric function



Short wavelength region

- Intense transitions from valence band up to Fermi level
- Low-intensity transitions from the Fermi level up to the next empty bands

Long wavelength region

- Plasma oscillations lead to reflection of the frequencies below that of plasmon