

# Metallic Nanoparticles with Plasmon Resonance for Therapeutics

Researchers around Emilie Ringe from Rice University (US) and Cambridge University (UK) are reporting on their experiments investigating localized surface plasmon resonance in Mg nanoplatelets synthesized by their group. Metallic nanoparticles that show plasmon resonance effects are being investigated for potential applications such as cancer therapy, (bio-)sensing, and enhanced spectroscopy. The plasmon resonance leads to increased electric field effects and enhanced scattering enabling high sensitivity sensing. The researchers investigate Mg as it is more abundant than nanostructures based on Au or Ag. Among several characterization methods, optical darkfield scattering spectroscopy is important to confirm response of the platelets in the UV, VIS and NIR wavelength ranges.

**Featured Paper/Publication:** [Magnesium Nanoparticle Plasmonics](#), Nano Letters, 2018

**Reference Lab:** Emilie Ringe, Cambridge University, UK

**Featured Product:** [ProEM, Isoplane](#)