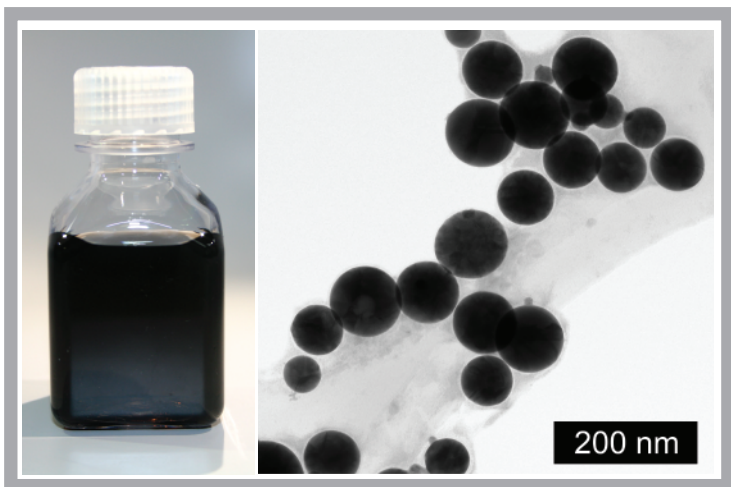


# IMRA AuPt Alloy Nanoparticles

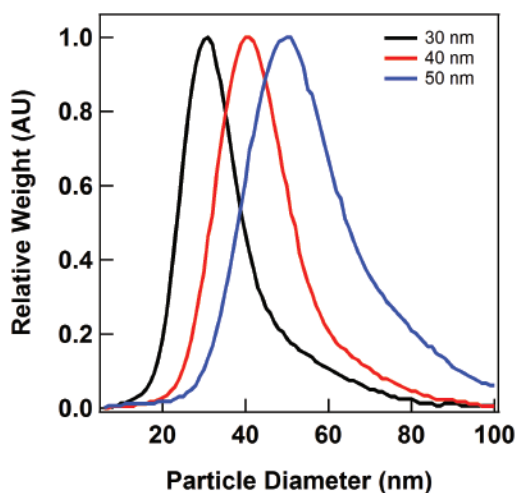


- Prepared by laser ablation without capping agents or surfactants
- Absorption across entire visible spectrum gives black color
- Bare surface for easy functionalization
- Potential applications:
  - Lateral flow assays
  - Multiplexed colorimetric detection
  - Imaging

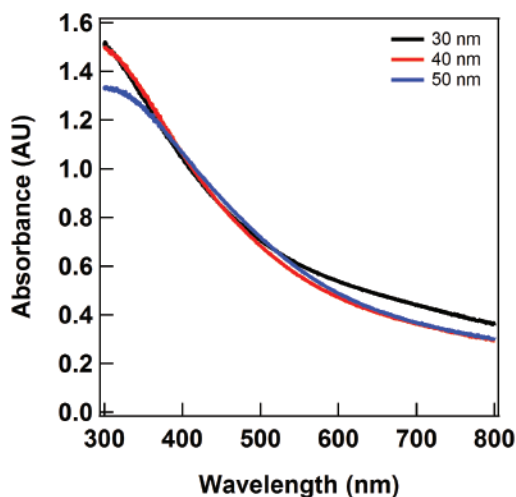
Product	Optical density*	Zeta potential (mV)	Peak particle size (nm)	Distribution FWHM (nm)	Electrical conductivity ( $\mu\text{S/cm}$ )
AuPt 30 nm	1, 3	<-50	$30 \pm 2$	16	< 10
AuPt 40 nm	1, 3	<-50	$40 \pm 2$	19	< 10
AuPt 50 nm	1, 3	<-50	$50 \pm 2$	25	< 10

\*Defined at 400 nm

Particle size distribution  
(measured by disc centrifuge)



Optical absorption spectra



IMRA America, Inc.  
 1044 Woodridge Ave.  
 Ann Arbor, MI 48105, USA  
 Phone: +1-734-930-9211 Fax: +1-734-669-7403  
 web: nano.imra.com email: nano@imra.com