

In this issue

Sabine Szunerits, Jolanda Spadavecchia and Rabah Boukherroub

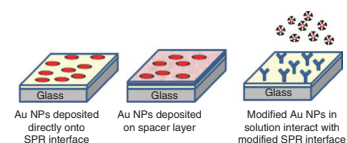
Surface plasmon resonance: signal amplification using colloidal gold nanoparticles for enhanced sensitivity

DOI 10.1515/revac-2014-0011

Rev Anal Chem 2014; 33(3): 153–164

Review: The importance of gold nanostructures for the amplification of SPR signals is discussed in this review article.

Keywords: biosensing; gold nanostructures; localized surface plasmon resonance (LSPR); signal amplification; surface plasmon resonance (SPR).



Bo Højen Justesen and Thomas Günther-Pomorski

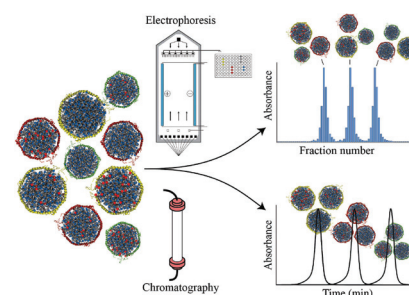
Chromatographic and electrophoretic methods for nanodisc purification and analysis

DOI 10.1515/revac-2014-0014

Rev Anal Chem 2014; 33(3): 165–172

Review: This article reviews the chromatographic and electrophoretic methods used for purifying and analyzing nanodiscs and nanodisc-reconstituted membrane proteins.

Keywords: chromatography; free flow electrophoresis; mass spectrometry; nanodiscs; native PAGE.



Liang Gong, Yi-Fan Lv, Hao Liang, Shuang-Yan Huan, Xiao-Bing Zhang and Wei Jun Zhang

DNAzyme conjugated nanomaterials for biosensing applications

DOI 10.1515/revac-2014-0006

Rev Anal Chem 2014; 33(3): 201–212

Review: We discussed recent advances in DNAzyme conjugated nanomaterials as sensing platforms for biochemical applications.

Keywords: biosensing; DNAzyme; nanomaterials.

