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a commercial gc-ms is used for detecting components in blood plasma. gc-ms is used in nuclear medicine to detect the presence of foreign substances such as radioactive blood, bone, teeth, tongue, hair, and nails. gc-ms is used for the identification of species in a complex mixture. this is called the gc-ms fingerprinting. the fingerprints of many different species can be separated to form a library. this library is then referenced with fingerprints of unknown species. the fingerprints also called the spectral library. the identification of species in a complex mixture can also be performed without identifying the constituent species. this is called an untargeted gc-ms fingerprinting. the spectral library is now called the gc-ms library or library of identifications. gc-ms is used for the analysis of the aroma. aroma is the smell of a food, perfume, or beverage. many scientific analytical techniques are used for analysis. the character of a product's aroma can help identify the chemical composition and best describe the flavor. gold nanoparticles (gnps) have a very wide variety of uses in a wide number of fields from physical, chemical, biological and medical applications, on account of their beautiful appearance and fascinating properties. the possible applications range from the use of gnps as antimicrobial agents to the construction of biosensors. here, we report on the development and the characterization of immunognp assay based on laser induced breakdown spectroscopy (libs) for detecting mb and ra fibres on surfaces. we used both linear polyamines (diaminopropane) and polypeptides (β-lactoglobulin) as reducing agents for gold nanoparticle (gnp) surface modification. for that, our goal was to use a gnp size and charge selectivity, which does not have any effect on the ability of the nanoparticles to interact with antibodies. using libs, we detected gold and nitrogen in the solution after the reaction and within gnp-linked antibody complexes. by measuring nitrogen content, we found that 80% of gnp-based nanocomplexes remain nontethered and can bind specifically to antigens. hence, they can be used as a marker for antigens on surfaces. we also obtained information about the thickness of the gold shell on gnps. in contrast, on the gold surface itself, 10% of gold is dissociated and can be detected by libs, which gives additional information about the thickness of the gold shell on the gnps. therefore, libs offers the possibility to investigate gnps in composites and complex surfaces.

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we are involved in the synthesis and characterization of inorganic, organic and hybrid metal nanoparticles and nanostructures as well as development of their properties for the applications in the areas of energy storage, catalysis, biotechnology, biomedicine and superconductivity. our research interests in inorganic chemistry are directed towards the synthesis of diverse types of nanostructures such as metal and metal oxide nanoparticles, nanowires, nanotubes and their applications in various areas including catalysis, biotechnology, biomedicine and energy storage. we are also involved in the development of organic/inorganic hybrid materials for applications in various fields such as energy storage, catalysis and biomedicine. we are also involved in the synthesis and characterization of various metal, oxide and mixed metal-organic nanoparticles. these materials are of great interest for their special properties, such as catalytic, magnetic, optical and electronic properties, and are useful in many important applications, including energy storage and conversion, the field of biotechnology and nanomedicine. our research group has a long-standing interest in the synthesis and characterization of a variety of metal, oxide and mixed metal-organic nanoparticles. we are also interested in the development of organic/inorganic hybrid materials for applications in various fields such as energy storage, catalysis and biomedicine. synthesis and characterization of inorganic metal oxide nanoparticles by the wet chemistry approach and their applications in biomedicine, biosensors, catalysis, drug delivery and antimicrobial materials. 5ec8ef588b

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