



## Novel Gold and Silver Nanomaterials

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### Message from the Guest Editor

Silver and gold nanoparticles belong to one of the most widely used nanomaterials. The subject matter of the Special Issue applies to new developments in:

- Green synthesis for receiving novel gold and silver nanomaterials;
- Challenges and opportunities in the production of gold and silver nanomaterials;
- Processes for obtaining stable suspensions and powders of silver and gold nanoparticles with controlled physicochemical and functional properties;
- Reaction systems used in the processes of obtaining nanoparticles;
- Characterization of physicochemical and functional properties of nanoparticles, and the influence of process parameters on these properties;
- Assessment of antimicrobial and catalytic properties of nanoparticles and ecotoxicological evaluation of nanoparticles against organisms representing different trophic levels of the food chain;
- Presentation of measurement techniques for analyzing the degree of exposure of organisms to the action of nanomaterials;
- Practical applications of silver and gold nanoparticles;
- High-purity nanomaterials;
- Composites, oxide systems, and hybrid materials containing silver and gold nanoparticles.





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