Special Issue

Novel Gold and Silver Nanomaterials

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.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2020)

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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