



## Gold Nanoparticles: Materials and Applications

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (30 April 2020)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue is dedicated to gold nanoparticles (Au NPs); advanced materials that represent a wealth of applications in (electro)catalysis, electronics, sensing, nanobiotechnology, diagnostics and therapeutics, among others. Au NPs can be easily synthesized with various sizes, shapes and surface functionalities in order to meet the requirements of specific applications. Owing to surface plasmon resonance (SPR) effects in the visible range, they possess unique size- and shape-dependent optical properties, e.g., light absorption in the near infrared (IR) spectrum of electromagnetic waves. These properties make them suitable for SPR-based biosensor devices, surface enhanced Raman scattering studies (SERS) and biomedical applications, such as photodynamic therapy, where light absorption results in local heat dissipation that can be applied to kill cancer cells, as an example.

Full papers, communications, and reviews are all welcome.

Prof. Marga Cornelia Lensen

*Guest Editor*





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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