



Ultrasmall Metal Nanoclusters: Functionalization and Biomedical Applications

Guest Editor:

Dr. Nirmal Goswami

School of Engineering, Mawson
Lakes Campus University of
South Australia, Mawson Lakes,
SA 5095, Australia

Deadline for manuscript
submissions:

closed (30 June 2019)

Message from the Guest Editor

In recent years, a sub-genre of noble metal nanoparticles with core sizes of less than 2 nm, also known as nanoclusters (NCs), have attracted substantial attraction because of their unique molecular like properties such as HOMO-LUMO transition, quantized charging, chirality, and photoluminescence. These unique properties, together with their low toxicity, ultra-fine size, and good biocompatibility, have made these NCs an ideal class of functional nanomaterials for applications in the biomedical field. In view of the increasing research interest in this topic, in this Special Issue of *Biosensors*, we invite articles related to the synthesis, characterization, and functionalization of metal NCs for the detection of biomolecules and toxic chemicals with potential applications in diagnosis and environmental monitoring. Review articles should emphasize detection mechanisms, especially for NC-based bio-sensing applications. Original research articles and reviews with potential relevance to NC-based biomedical applications (imaging and therapy) are also welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Chemistry, Analytical*) / CiteScore - Q1 (*Engineering (miscellaneous)*)

Contact Us

Biosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
[X@Biosensors_MDPI](https://twitter.com/Biosensors_MDPI)