

## Special Issue

# Metals and Metal Oxides for Advanced Biomedical Applications

### Message from the Guest Editor

In this Special Issue, we will focus on metal nanoparticles and metal oxides and their many applications in biomedicine, from diagnostics to tissue regeneration. The use of metal nanoparticles in biomaterials provides a means to significantly improve the performance of many materials. When these nanoparticles are combined with specific polymers, the resulting nanocomposites often have unique features and properties that can be fine-tuned for particular applications. Some metal nanoparticles are known to have bactericidal effects due to their high surface-to-volume ratio and small size, which allows them to interact with bacterial cell membranes rather than the release of metal ions into solution closely. Copper, silver, and zinc nanoparticles, in particular, are crucial in many applications, but they are also known for their excellent antimicrobial properties. Other metal nanoparticles (copper, magnesium, and zinc) can enhance tissue regeneration in many tissues and are used in drug delivery and targeted drug delivery. We very much look forward to receiving a submission from you and your colleagues.

### Guest Editor

Prof. Dr. David Mills

School of Biological Sciences, Louisiana Tech University, Ruston, LA 71272, USA

### Deadline for manuscript submissions

closed (31 January 2022)



## Molecules

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*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

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### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of  
Münster, Corrensstrasse 48, D-48149 Münster, Germany

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