

## Special Issue

# Advances in Synthesis of Transition-Metal-Based Nanoparticles and Their Bioapplications

### Message from the Guest Editor

The utilitarian nature of nanoscale systems is related to the change in the functional properties of materials (chemical, optical, magnetic, etc.) in relation to that known from the macroscale. Transition-metal-based nanoparticles, due to their distinctive physical–chemical properties, are amongst the most widely used nanoscale platforms in diverse applications, including numerous bioapplications. Combining the knowledge from modern materials engineering and chemistry opens up the possibility to design more sophisticated transition-metal-based nanoparticle systems, such as metal oxides, sulfides, metal–organic framework nanomaterials, etc. The synthesis of novel transition-metal-based nanomaterials, including their properties, functions, and bioapplications, from the perspectives of molecular imaging, sensing, and nanotherapeutics (e.g., cancer treatment) are the focus of this Special Issue.

### Guest Editor

Dr. Angelika Kmita

Academic Centre for Materials and Nanotechnology, AGH University of Science and Technology, Al. A. Mickiewicza 30, 30-059 Krakow, Poland

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

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### Message from the Editor-in-Chief

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Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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