







an Open Access Journal by MDPI

# **Nanoparticle-based Sensors for Molecular Imaging**

Guest Editor:

**Dr. Fernando Herranz** Instituto de Química Médica, CSIC, Madrid, Spain

Deadline for manuscript submissions:

closed (30 June 2021)

## **Message from the Guest Editor**

Nanoparticle-based sensors for imaging might be defined as chemical devices composed of a nanostructured component, providing the signal, and at least one vector, providing the biological specificity. These sensors give noninvasive real-time information about the presence of one or several biomarkers of interest. Depending on the imaging technique, the information can also be quantitative. Examples of this approach have been reported with all kinds of nanoparticles, from iron oxide nanoparticles to quantum dots, liposomes, and polymeric nanoparticles, to name but a few. These examples cover all molecular imaging techniques: positron emission tomography. magnetic resonance imaging, optical imaging, optoacoustic imaging, magnetic particle imaging, etc. A key characteristic of these sensors is their nanostructure. Their nanoscale gives a particular feature that is not possible to obtain with traditional molecular examples.

This Special Issue is devoted to the synthesis and application of any type of nanoparticle capable of acting as an in vivo sensor in molecular imaging.













an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

## **Message from the Editor-in-Chief**

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. 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.

### **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, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases

**Journal Rank:** JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

#### **Contact Us**