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Functional Nanocomposite Material Based on Metal Atom Clusters

Guest Editors:

Prof. Dr. Fabien Grasset

Dr. Michael A. Shestopalov

Dr. Marta Feliz

Prof. Dr. Tetsuo Uchikoshi

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Message from the Guest Editors

Functional nanocomposites represent a particular class of nanoarchitectured materials that integrate various dissimilar nanoscale building blocks including clusters, particles, wires, and films. These heterogeneous composite nanostructured materials are composed by multi-(nano)components, each tailored to address different requirements. One of these nanocomponents are nanometer-sized metal atom clusters (<2 nm), which consist of less than a few dozens of metal atoms and could be defined as the link between atom and nanoparticle.

In this Special Issue, we will focus on new results or reviews on inorganic or hybrid nanomaterials involving transition metal atom cluster units for optical, nanobiotechnology, energy, and environmental applications.

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Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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