Special Issue

Advances in Magnonics

Message from the Guest Editor

The field of Magnonics is evolving with the aim of enabling magnons to perform most of the operations and functionalities traditionally carried out by electric currents. In fact, the ultimate purpose is to substitute, at least in part, ordinary electronic elemental devices with their magnonic counterparts. This transition is expected to considerably reduce overall energy consumption, heat, and water dissipation. With this Special Issue, we would like to present contributions dealing with all kind of investigations addressing the above issues. First of all, studies on static magnetization configurations in the most diverse possible magnetic structures (from periodic ones, like magnonic crystals or artificial spin ice systems, to aperiodic ones, like quasi-crystals, from multilayered ferromagnetic systems to actual 3D structures). In addition, studies dealing with spin-wave dynamics, including linear and non-linear effects, involving magnon propagation and conductivity, magnon–magnon coupling, magnon frequency combs, magnon interference, magnon Doppler shifts, and many others. We look forward to receiving your manuscript with your top and most recent research results.

Guest Editor

Dr. Federico Montoncello

Department of Physics and Earth Sciences, University of Ferrara, 35-44121 Ferrara, Italy

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Magnetochemistry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
magnetochemistry@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

Editor-in-Chief

Prof. Dr. Carlos J. Gómez García
Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjasot, Spain

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