

## Special Issue

# Synthetic, Natural and Natural-Synthetic Hybrid Magnetic Structures: Technology and Application

### Message from the Guest Editors

This issue is devoted to the study of magnetic structures, including magnetic nanoparticles, of three main classes: synthetic structures, natural structures, and hybrid natural–synthetic structures. The issue also addresses theoretical modeling tasks, the practical use of these magnetic structures in solving technical and biomedical problems is also considered.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Magnetotactic bacteria, being in nature, cultivation, isolation of magnetosomes;
- Features of physical and chemical properties and magnetic state of magnetosomes;
- Magnetic structures based on natural magnetic ores, their study, and possible applications;
- Synthetic magnetic structures, including nature-like and biomimetic;
- Hybrid magnetic structures based on synthetic and natural components for microwave absorption, biomedicine, and other applications;
- Micromagnetic modeling of natural, synthetic, and hybrid magnetic structures;
- New methods of synthesis and study of magnetic structures.

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### Guest Editors

Dr. Kamil Gareev

Department of Micro and Nanoelectronics, Saint Petersburg Electrotechnical University “LETI”, 197022 Saint Petersburg, Russia

Dr. Ksenia Chichay

International Research Center “X-ray Coherent Optics”, Immanuel Kant Baltic Federal University, 236022 Kaliningrad, Russia

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### Deadline for manuscript submissions

closed (20 July 2023)



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

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### Editor-in-Chief

Prof. Dr. Carlos J. Gómez García

Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjassot, Spain

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).