

Special Issue

Magnetic Cell Separation

Message from the Guest Editor

Magnetic cell separation has become a key methodology for the isolation of target cell populations from biological suspensions, covering a wide spectrum of applications from diagnosis and therapy in biomedicine to environmental applications or fundamental research in biology. This Special Issue aims to create a forum of discussion to share advances and address current challenges in magnetic cell separation. The topics listed below are meant as a guideline for possible contributions:

- Cell separation devices:
 - a) Batch-type magnetic separators;
 - b) Optimized magnetic field sources for cell separation;
 - c) Microfluidic separation platforms based on magnetism.
- Cell targeting and sorting strategies:
 - a) Cell labeling strategies;
 - b) Label-free separation methods based on magnetism;
 - c) Multifunctional nanoparticles for magnetic cell separation and detection.
- Applications:
 - a) Translation into clinical and industrial practice;
 - b) Rare cell isolation;
 - c) Single cell isolation;
 - d) Environmental applications;
 - e) Other applications.

Guest Editor

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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

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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).