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;
  c) 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

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