



Photofunctional Molecular Magnets: Development and Their Potential Applications

Guest Editors:

Dr. Laura C. J. Pereira

Dr. Bernardo Monteiro

Dr. Cláudia Pereira

Deadline for manuscript
submissions:
closed (20 June 2023)

Message from the Guest Editors

Dear Colleagues,

Nowadays the development of functional molecular magnets is becoming one of the main challenges for chemists, physics, and materials researchers. Molecular magnetic materials are essentially based on molecular building blocks where their properties can be tuned/modulated from thousands of small variations that organic/inorganic ligands may present, giving rise to an incredibly rich structural diversity. Among these materials, photofunctional magnets are gaining prominence, as photo-switching materials induce magnetic behavior or clearly show both magnetic and luminescence properties, which is the case of some lanthanide-based single-molecule magnets. Their excellent performances have shown great potential in applications such as high-density data storage, quantum computing, sensing, optical switches, biomedicine, etc.

This Special Issue aims at publishing a collection of research contributions illustrating recent achievements in the development of molecular magnets where the presence of photofunctional properties can coexist, as well as their potential applications.

