



Photofunctional Molecular Magnets: Development and Their Potential Applications

Guest Editors:

Dr. Laura Cristina de Jesus Pereira

Dr. Bernardo Monteiro

Dr. Cláudia Pereira

Deadline for manuscript
submissions:
closed (10 November 2021)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/AtApplsci)