Special Issue

Neutron Scattering and Its Applications

Message from the Guest Editors

With the development of reactor and spallation neutron sources, novel diffractometer- or spectrometer-based elastic and inelastic neutron scattering techniques have been developed. The advancement in neutron instrumentation makes it possible to unravel the structure and dynamic processes across space- and time- scales covering multiple orders of magnitude. As one of the cutting-edge technologies, neutron scattering finds applications in a diverse range of fields, including advanced materials, condensed physics, medical biology, energy and environment. This research topic welcomes original research papers, review articles and perspectives from, but not limited to, the following aspects:

- The fundamentals of neutron scattering and novel technologies ;
- Applications of elastic or inelastic neutron scattering techniques in multidisciplinary fields;
- Methods for neutron scattering data reduction, analysis and simulation;
- Recent developments in methodology, instrumentation, sample environment equipment and optical devices for neutron techniques.

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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.

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