Special Issue

Novel Research on Crystal Structure and Magnetic Properties

Message from the Guest Editors

This Special Issue focuses on the exploration of magnetism in novel crystal structures. The study of magnetic properties in these new materials has become a significant topic of interest among researchers. Through theoretical and experimental studies of the electron spin degrees of freedom in novel crystal structures, unique magnetic behaviors of these materials have been revealed. For instance, new crystal structures may exhibit unconventional spin orders and magnetic exciton structures that are rarely seen or absent in traditional materials. Additionally, by tuning various parameters of the crystal structure such as lattice constants, ion radii, and crystal symmetries, further control over the material's magnetic properties is achieved, demonstrating versatility and tunability. By integrating theoretical simulations with advanced experimental techniques, it is anticipated that novel magnetic phenomena in new materials will be unveiled, providing new insights and methodologies for future materials designs and applications.

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