Special Issue

Advances in Antiferromagnetic Spintronics

Message from the Guest Editor

Antiferromagnetic spintronics is one of the emerging topics in spintronics due to a wide range of advantages, including terahertz operation, no stray field, and highly efficient spin generation. The discussion of this topic covers aspects ranging from the development of new antiferromagnetic materials to the applications of these materials in devices. Traditionally, antiferromagnets were treated as less common magnetic materials for fundamental studies and applications. However, recent miniaturisation and high-frequency operation have revealed them to be advantageous over the conventional ferromagnets. This Special Issue reviews the current status and future perspectives of antiferromagnetic spintronics. Contributions in the form of full papers, reviews, and communications about the related topics are very welcome.

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