## Special Issue

# Spin-Orbitronic Devices and Integrated Applications

## Message from the Guest Editor

At present, the unprecedented boom of data manipulation is pushing information-processing devices forward with the prerequisite nature of the simultaneous high-speed operation and ultra-low energy consumption. The recently developed spin-orbit torque (SOT)-induced magnetization switching paradigm has been fueling opportunities for spin-orbitronic devices enabled with new electrical control of magnets via spinorbit interaction under sub-nanosecond and subpicojoule regimes. This Special Issue aims to further the momentum of both fundamental research and integrated applications of spin-orbitronic devices. The enrichment topics to be covered include (but are not limited to): (1) Cutting-edge SOT memory in CMOScompatible and scalable methodologies for field-free magnetization switching. (2) The scientific and technological development of spin-orbitronics towards emerging applications; (3) Extensive research of spinorbitronic device modeling, process integration, and the interdisciplinary spintronic fields engaged in silicon circuits. (4) Investigations of futuristic spintronic materials and devices -spin-orbit logic, magnonics, topotronics, skyrmionics etc.

#### Guest Editor

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## Deadline for manuscript submissions

closed (31 August 2022)



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## Message from the Editor-in-Chief

#### **Editor-in-Chief**

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