



an Open Access Journal by MDPI

Emerging Materials for Quantum Devices and Computation

Guest Editor:

Dr. Dinh Loc Duong

 Department of Energy Science, Sungkyunkwan University, Suwon 16419, Korea
Center for Integrated Nanostructure Physics, Institute for Basic Science, Daejeon 34126, Korea

Deadline for manuscript submissions: closed (20 April 2022)

Message from the Guest Editor

Dear Colleagues,

The current silicon-based technology is reaching the limit of size minimization. Therefore, new technologies that can be integrated into or completely replace the wellestablished silicon-based technology are highly required. Low-dissipation or dissipation-less devices via low-power spintronics, magnetic oscillations, and condensations are emerging as potential platforms for next-generation memory and computing devices. Simultaneously, solidstate quantum devices and computing are rapidly developing. Furthermore, neuromorphic devices are appearing as a new approach not only for low-power electric devices but also hardware for artificial intelligence.

In this Special Issue of Magnetochemistry, we call for highlights of the recent achievements and research reports in the fields of spintronic devices, synthesis, and characterization of quantum materials and their heterostructures, molecular devices, quantum emitters and metrology, qubits/p-bits, and quantum and neuromorphic computing. The published papers include research papers, communications, and perspectives/progress report review articles.



