Special Issue

Future Prospects of Quantum Chips and Their Applications

Message from the Guest Editors

Quantum chips are designed to manipulate, store, and process quantum information, making them ideal for solving complex problems beyond the reach of classical computing. They also enable secure quantum communications and enhanced quantum sensing beyond the classical limit. Although the development of quantum chips is still in its early stages, significant progress has been made in recent years. In this Special Issue, we aim to provide a platform for researchers and experts in the field of quantum computing to share their insights and perspectives on the future prospects of quantum chips and their applications. We welcome papers on all aspects of quantum chips, including on their design, fabrication, characterization, and applications. We invite original research, review articles, and communications that focus on the latest developments in quantum chip technology, as well as their potential applications in areas such as cryptography, machine learning, and drug discovery, among others.

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