

Special Issue

Novel Quantum Devices for Sensing and Other Applications

Message from the Guest Editors

The development of quantum devices for sensing and other applications is a new and exciting field of physics and engineering which includes technologies that utilize properties of quantum mechanics, such as quantum entanglement, quantum superposition, quantum interference, quantum tunneling, etc., to provide enhanced precision and performance compared to conventional approaches. These devices are expected to find important applications in a wide variety of fields, such as in sensors, quantum computing, imaging, quantum energy generators, space navigation, etc. Quantum sensors in particular could be utilized in many interesting areas, including microscopy, positioning systems, communication technology, electric and magnetic field sensing, etc.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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