Special Issue

Quantum Sensors and Quantum Sensing

Message from the Guest Editors

A quantum sensor is a device to detect various physical quantities by utilizing a fragility against the environment of a quantum state. Quantum sensing devices have the potential to beat current limits in sensor technology, such as the precision to overcome the Heisenberg limit due to the essential properties of quantum mechanics. On a physical implementation of a quantum sensor, various physical systems, such as nitrogen-vacancy centers in diamond, trapped atoms, and quantum optics, are developing due to the promotion of quantum technology. In these days, several quantum sensors do not only achieve beating the precision under an ideal environment but also seek useful applications in sensor technology. In this Special Issue, we look forward to your submissions on the foundations and applicational issues of quantum sensors.

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Deadline for manuscript submissions

closed (31 December 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/125675

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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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