



Advanced Quantum Diamond Sensors and Applications

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Message from the Guest Editors

Globally, significant research efforts and investment are being directed towards the further development of quantum diamond sensors and demonstration of their measurement capabilities. There is tremendous potential for deployment of quantum diamond sensors in electrical and thermal monitoring in electric vehicle batteries, high resolution magnetic resonance spectroscopy to uncover the chemical structures at a single molecule level, novel microwave sensors for use in the telecommunication sector, characterisation of future materials including spintronics devices and nanomaterials. Overall, quantum diamond sensors provide unprecedented measurement sensitivity and are poised to become essential tools across many sectors. This Special Issue on “Advanced Quantum Diamond Sensors and Applications” has the objective of showcasing current and emerging technologies that exploit the quantum assisted sensing capabilities of diamond. Reports describing new methodologies, materials, technical developments and applications are particularly welcome.





sensors



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Message from the Editor-in-Chief

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