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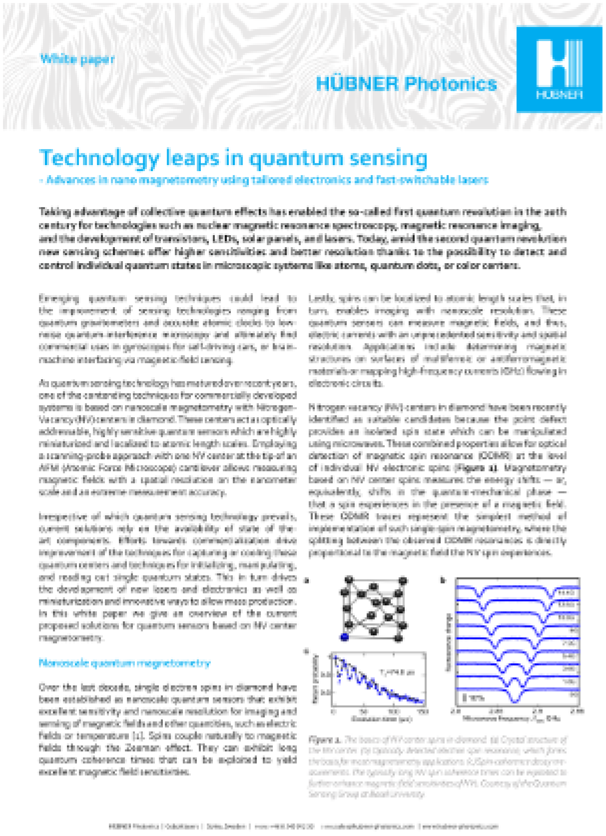
White paper

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Technology leaps in quantum sensing

- Advances in nano magnetometry using tailored electronics and fast-switchable lasers

Taking advantage of collective quantum effects has enabled the so-called first quantum revolution in the 20th century for technologies such as nuclear magnetic resonance spectroscopy, magnetic resonance imaging, and the development of transistors, LEDs, solar panels, and lasers. Today, amid the second quantum revolution new sensing schemes offer higher sensitivities and better resolution thanks to the possibility to detect and control individual quantum states in microscopic systems like atoms, quantum dots, or color centers.

Technology Leaps in Quantum Sensing

Irrespective of which quantum sensing technology prevails, current solutions rely on the availability of state-of-the-art components. This in turn drives the development of new lasers and electronics as well as miniaturization and innovative ways to allow mass production. In this white paper we give an overview of the current proposed solutions for quantum sensors based on NV center magnetometry.

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