

The Quantum Upgrade

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Abstract:

Quantum sensors made of NV centers in diamond have generated accrued interest over the past decade, owing in particular to a unique sensitivity to small sample volumes. Significant progress has been made over a growing number of applications from material science, to navigation, to detection of single proteins, and the technology is now at a tipping point. From an industrial perspective, the further dissemination of the technology depends on two key elements: 1) a scalable supply chain of high quality quantum material, 2) the possibility to miniaturize systems and streamline operations. In this talk, we describe the supply chain and present Qnami's contribution to the deployment of this diamond-based technology.