Ultrasensitive and broadband magnetometry with cavity optomechanics

We achieved sensitivity of 30 pT/Hz$^{1/2}$ and working bandwidth larger than 100 MHz, using cavity optomechanical magnetometry, and also demonstrated quantum light enhanced sensitivity in such a magnetometer.

General information
State: Published
Organisations: Department of Physics, Quantum Physics and Information Technology, University of Queensland, Defense Science and Technology Group
Number of pages: 2
Publication date: 2017

Host publication information
Title of host publication: 2017 Conference on Lasers and Electro-Optics (CLEO)
Publisher: IEEE
Source: FindIt
Source-ID: 2392558232
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017