

Publications of Prof. Fedor Jelezko

- (1) Frank F., Unden T., Zoller J., Said R. S., Calarco T., Montangero S., Naydenov B. & Jelezko F. **(2017)** Autonomous calibration of single spin qubit operations. npj Quantum Information 3, Article number: 48
- (2) Scheuer J., Schwartz I., Müller S., Chen Q., Dhang I., Plenio M. B., Naydenov B. & Jelezko F. **(2017)** Robust techniques for polarization and detection of nuclear spin ensembles. Phys. Rev. B 96, 174436
- (3) Stark A., Aharon N., Unden T., Louzon D., Huck A., Retzker A., Andersen U. L. & Jelezko F. **(2017)** Narrow-bandwidth sensing of high-frequency fields with continuous dynamical decoupling. Nature Communications, DOI: 10.1038/s41467-017-01159-2
- (4) Siyushev P., Metsch M. H., Ijaz A., Binder J. M., Bhaskar M. K., Sukachev D. D., Sipahigil A., Evans R. E., Nguyen C. T., Lukin M. D., Hemmer P. R., Palyanov Y. N., Kupriyanov I. N., Borzdov Y. M., Rogers L. J., & Jelezko F. **(2017)** Optical and microwave control of germanium-vacancy center spins in diamond. Phys. Rev. B 96, 081201(R)
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- (10) Jantzen U., Kurz A. B., Rudnicki D. S., Schäfermeier C., Jahnke K. D., Andersen U. L., Davydov V. A., Agafonov V. N., Kubanek A., Rogers L. J. & Jelezko F. **(2016)** Nanodiamonds carrying silicon-vacancy quantum emitters with almost lifetime-limited linewidths. New J. Phys. 18 073036
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Patents:

Thorel, A., Curmi, P., Boudou, J. & Jelezko, F. **(2013)** Photovoltaic cell for use in solar panel, has layer provided on another layer and including fluorescent diamonds, where former layer is coated on outer side of cell such that light rays illuminate fluorescent diamonds. Patent Number: FR2982423-A1; WO2013064784-A2

Dodson, J.M., Jelezko, F., Markham, M.L., Twitchen, D.J., Twitchen, D., Dodson, J. & Markham, M. **(2012)** Manufacture of optical element used in diamond magnetometer, involves growing layers of single crystal diamond material by chemical vapor deposition method using gas phase having specified nitrogen concentrations. Patent Number: GB2482596-A; WO2012016977-A2; WO2012016977-A3; EP2601132-A2

Boudou, J., Curmi, P., Jelezko, F., Sennour, M., Thorel, A. & Boudou J.P. **(2010)** Manufacturing cubic diamond nanocrystals for biomolecule labelling, comprises milling a crystalline micron diamond powder using nitrogen jet milling micronization to manufacture a fine powder, and nanomilling the fine powder. Patent Number: WO2010102977-A1; KR2011137344-A; EP2406179-A1; US2012022231-A1; CN102348637-A; JP2012519647-W