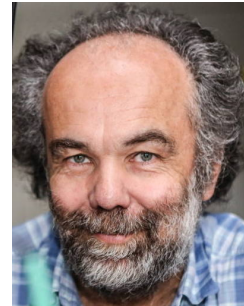


## Prof. Dr. Dieter Suter

### Personal

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### Career history

1979	Diploma (Chemistry), ETH Zürich
1985	PhD, ETH Zürich
1986 – 1988	PostDoc, Lawrence Berkeley Laboratory and UC Berkeley, USA
1988 – 1995	PostDoc, ETH Zürich
1993	Habilitation (Experimental Physics), ETH Zürich
1995 – today	Full Professor (C4), Physics, Technische Universität Dortmund
1997- 1999	Dean of Physics Department, Technische Universität Dortmund

### Further academic activities

Guest professor of the University of Science and Technology of China (USTC), Hefei, China

Member of the ENC executive committee (2009-2015)

Member of the editorial board of the J. Magn. Reson. (2000 – 2010)

William Evans Fellow, University of Otago, Dunedin, New Zealand (2015)

ISMAR Fellow (2018)

### Fields of Interest

Development of advanced magnetic resonance techniques

Optically enhanced magnetic resonance

Quantum information processing

Medical physics applications of magnetic resonance

### 10 Selected publications

'Robust Dynamical Decoupling for Quantum Computing and Quantum Memory', A. M. Souza, G. A. Álvarez and D. Suter, Phys. Rev. Lett. 106, 240501 (2011).

'An Efficient Exact Quantum Algorithm for the Integer Square-free Decomposition Problem', J. Li, X. Peng, J. Du and D. Suter, Sci. Rep. 2, 260 (2012).

'Experimental Implementation of Encoded Logical Qubit Operations in a Perfect Quantum Error Correcting Code', J. Zhang, R. Laflamme and D. Suter, Phys. Rev. Lett. 109, 100503 (2012).

'Faithful Solid State Optical Memory with Dynamically Decoupled Spin Wave Storage', M. Lovric, D. Suter, A. Ferrier and P. Goldner, Phys. Rev. Lett. 111, 020503 (2013).

- 'Quantum simulations of localization effects with dipolar interactions', G. A. Álvarez, R. Kaiser and D. Suter, *Annalen der Physik* 525, 833-844 (2013).
- 'Medical Physics, Exercises and Examples', W. A. Worthoff, H. G. Krojanski and D. Suter, de Gruyter, ISBN paperback 978-3-11-030675-0; ebook: ISBN 978-3-11-030676-7 (2013).
- 'Localization-delocalization transition in the dynamics of dipolar-coupled nuclear spins', G. A. Álvarez, D. Suter and R. Kaiser, *Science* 349, 846-848 (2015)
- 'Experimental Protection of Two-Qubit Quantum Gates against Environmental Noise by Dynamical Decoupling' J. Zhang and D. Suter, *Phys. Rev. Lett.* 115, 110502 (2015)
- 'Colloquium : Protecting quantum information against environmental noise', D. Suter and G. A. Alvarez, *Rev. Mod. Phys.* 88, 041001 (2016)
- 'Single-spin magnetic resonance in the nitrogen-vacancy center of diamond', D. Suter and F. Jelezko, *Progress in Nuclear Magnetic Resonance Spectroscopy* 98-99, 50 - 62 (2017)