

Refereed Articles.

1. *Model based extraction of material properties in multifrequency atomic force microscopy.* D. Forchheimer, D. Platz, E. A. Tholen and D. B. Haviland, Phys. Rev. B, **85**, 195449 (2012).
2. *The role of nonlinear dynamics in quantitative atomic force microscopy.* D. Platz, D. Forchheimer, E. A. Tholen and D. B. Haviland, Nanotechnology, **23**, 265705 (2012).
3. *Quantum Phase Slips.* D. B. Haviland, Nature Physics, **6**, 565 (2011). (Invited News and Views article).
4. *The Intermodulation Lockin Analyzer.* E. A. Tholen, D. Platz, D. Forchheimer, V. Schuler, M. O. Tholen, C. Hutter and D. B. Haviland, Rev. Sci. Instr., **82**, 026109 (2011).
5. *Effect of material stiffness on intermodulation response in dynamic atomic force microscopy.* D. Platz, D. Forchheimer, E. A. Tholen, C. Hutter, and D. B. Haviland., Proc. ASME 2010, to be published.
6. *Reconstructing Nonlinearities with Intermodulation Spectroscopy,* Carsten Hutter, Daniel Platz, E. A. Tholen and D. B. Haviland, Phys Rev. Lett. **104**, 050801 (2010).
7. *Phase Imaging with Intermodulation Atomic Force Microscopy,* Daniel Platz, E. A. Tholen, Carsten Hutter, Arndt C. von Bieren and D. B. Haviland, Ultramicroscopy, **110**, 573 (2010).
8. *Modulation of Cell Adhesion Complexes by Surface Protein Patterns,* D. Pesen and D. B. Haviland, ACS Appl. Mater. Interfaces, **1**, 543-548 (2009). (featured article on cover)
9. *Parametric Amplification with Weak-Link Nonlinearity in Superconducting Microresonators,* E. A. Tholen, A. Ergul, K. Stannigel C. Hutter and D. B. Haviland. Proc. Nobel Symposium on Quantum, Phys. Scr. **014019** (2009).
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11. *Spin injection and relaxation in a mesoscopic superconductor,* N. Poli, J. P. Morten, M. Urech, A. Brataas, D. B. Haviland, and V. Korenivski, Phys. Rev. Lett. **100**, 136601 (2008).
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13. *Image reversal for direct electron beam patterning of protein coated surfaces,* D. Pesen, A. Erlandsson, M. Ulfendahl, D. B. Haviland, Lab Chip, **11**, 1603 (2007).
14. *Pulse and hold strategy for switching current measurements.* J. Walter, E. Tholén, J. Sjöstrand and D. B. Haviland., Phys Rev. B. **75**, 094515, (2007).
15. *High Fidelity Functional Patterns of an Extracellular Matrix Protein by Electron Beam Based Inactivation,* Rundqvist, J.; Mendoza, B.; Werbin, J.; Heinz, W. F.;

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16. *Nonlinearities and parametric amplification in superconducting stripline resonators.* E. Tholén, A. Ergül, E. Doherty, F. M. Weber, F. Gregris and D. B. Haviland., *Appl. Phys. Lett.*, **90**, 253509 (2007).
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 18. *Phase-charge duality of a Josephson junction in a fluctuating electromagnetic environment*, S. Corlevi, W. Guichard, F. W. J. Hekking, and D. B. Haviland, *Phys. Rev. Lett.* **97**, 096802 (2006)
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Patents

1. *Intermodulation Scanning Probe Microscopy*, USPTO Provisional Patent Application no. 60990518, filed 27 Nov. 2007
2. *Intermodulation Atomic Force Spectroscopy*. USPTO Provisional Patent Application no. 61096370, filed 12 sept. 2008
3. *Intermodulation Scanning Force Spectroscopy*, PCT/EP2008/066247 Application based on 1) and 2). Filed 27 Nov. 2008
4. *Intermodulation Lockin Analyzer*, USPTO Provisional Patent Application no. 61330747, Filed 3 May, 2010
5. *Intermodulation Lock-in*, USPTO Patent Application no. 13098597 based on 4). Filed 2 May, 2011