

Publicatielijst

Prof. de Boer has an H-index of 38 (as per Sept 2010). His top 4 publications were cited more than 200 times each, his top 15 publications more than 100 times each. The top five is listed below.

J. F. de Boer, T. E. Milner, M. J. C. van Gemert, J. S. Nelson. Two-dimensional birefringence imaging in biological tissue by polarization-sensitive optical coherence tomography. *Optics Lett.* **22**: 934-936, 1997. (349 citations)

J. F. de Boer, B. Cense, B. H. Park, M.C. Pierce, G. T. Tearney, B.E. Bouma, "Improved signal to noise ratio in spectral domain compared with time domain optical coherence tomography." *Opt. Lett.* (21) 28, 2067-2069, 2003. (323 citations)

Y. Zhao, Z. Chen, C. Saxer, S. Xiang, J. F. de Boer and J. S. Nelson. Phase resolved Optical Coherence Tomography and Optical Doppler Tomography for imaging blood flow in human skin with fast-scanning speed and high velocity sensitivity. *Optics Letters* **24**: 114-116, 2000. (216 citations)

S. H. Yun, G. J. Tearney, J. F. de Boer, N. Iftimia, and B. E. Bouma, "High-speed optical frequency-domain imaging," *Opt. Express* 11, 2953-2963 (2003). (209 citations)

N. A. Nassif, B. Cense, B. H. Park, M. C. Pierce, S. H. Yun, B. E. Bouma, G. J. Tearney, T. C. Chen, and J. F. de Boer, "In vivo high-resolution video-rate spectral-domain optical coherence tomography of the human retina and optic nerve," *Opt. Express* 12, 367-376 (2004) (173 citations)

Book Chapters

- J. F. de Boer, T. E. Milner, M. G. Ducros, S. M. Srinivas, and J. S. Nelson. Chapter 9 "Polarization sensitive optical coherence tomography." in *Handbook of Optical Coherence Tomography*, edited by B. E. Bouma and G. J. Tearney, Marcel Dekker, New York (2002).
- J. F. de Boer. Polarization sensitive Optical Coherence Tomography - Phase sensitive Interferometry for multi-functional imaging. In: Tuchin V, ed. *Handbook of Coherent-Domain Optical Methods - Biomedical Diagnostics, Environmental and Material Science*. Kluwer, Boston, MA (2004).
- J. F. de Boer. New Techniques, spectral domain optical coherence tomography. In: *Optic Nerve head and retinal nerve fibre layer analysis*, edited by Michele Lester, David Garway-Heath, and Hans Lemij, Dogma, Savona, Italy (2005).
- David Huang, Ou Tan, James G. Fujimoto, Wolfgang Drexler, Johannes F. de Boer, Maciej Wojtkowski, and Andrzej Kowalczyk. Chapter 3: "Optical Coherence Tomography" in *Retinal Imaging*, edited by David Huang, Peter K. Kaiser, Careen Y. Lowder, and Elias I. Traboulsi, Mosby Elsevier, Philadelphia, PA (2006)
- J. F. de Boer. Spectral/Fourier Domain Optical Coherence Tomography. In Drexler W, Fujimoto JG. *Optical Coherence Tomography, Technology and Applications* Springer, Germany (2008)
- B.H. Park, J. F. de Boer. Polarization Sensitive Optical Coherence Tomography. In Drexler W, Fujimoto JG. *Optical Coherence Tomography, Technology and Applications* Springer, Germany (2008)

Peer-reviewed Journals

1. A. Petzold, J. F de Boer, S. Schippling, P. Vermersch, R. Kardon, A. Green, P. A. Calabresi, C. Polman. Optical coherence tomography in multiple sclerosis: a systematic review and meta-analysis. *The Lancet Neurology*, 9: 921-932, 2010.
2. K. H. Kim, J. A. Burns, J. J. Bernstein, G. N. Maguluri, B. H. Park, J. F. de Boer. In vivo 3D human vocal fold imaging with polarization sensitive optical coherence tomography and a MEMS scanning catheter. *Optics Express* 18: 14644-14653, 2010.
3. C. Joo, C.L. Evans, T. Stepinac, T. Hasan, J. F. de Boer. Diffusive and directional intracellular dynamics measured by field-based dynamic light scattering. *Optics Express* 18: 2858-2871 (2010).

4. J.A. Burns, K.H. Kim, J.B. Kobler, J.F. de Boer, G. Lopez-Guerra, S.M. Zeitels. Real-Time Tracking of Vocal Fold Injections With Optical Coherence Tomography. *Laryngoscope* 119: 2182-2186 (2009)
5. C. Joo, E. Ozkumur, M.S. Unlu, J.F. de Boer. Spectral-domain optical coherence phase microscopy for label-free multiplexed protein microarray assay. *Biosensors & Bioelectronics* 25: 275-281 (2009) K. Yi, M. Mujat, W. Sun, D. Burnes, M.A. Latina, D.T. Lin, D. G. Deschler, P.A.D. Rubin, B.H. Park, J.F. de Boer, and T.C. Chen. Imaging of Optic Nerve Head Drusen: Improvements With Spectral Domain Optical Coherence Tomography. *J Glaucoma* 18:373–378 (2009)
6. C.L. Evans, I. Imran, T. Hasan, J.F. de Boer. In vitro ovarian tumor growth and treatment response dynamics visualized with time-lapse OCT imaging. *Opt. Express* 17, 8892-8906 (2009) <http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-17-11-8892>
7. Y. Chen, D.L. Burnes, M. de Bruin, M. Mujat, and J. F. de Boer. Three-dimensional pointwise comparison of human retinal optical property at 845 and 1060 nm using optical frequency domain imaging. *J. Biomed. Opt.* 14, 024016 (2009)
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