

CV Prof. Dr. Thomas Dekorsy

Date of Birth: December 23, 1965; Gender: male; Nationality: German

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Professional Career and Education:

- since 12/2004: Full Professor of Experimental Physics at University of Konstanz, Germany, Deputy Director Center for Applied Photonics (CAP)
- 2000 – 2004: Department Head “Semiconductor Spectroscopy”, Helmholtz Research Center Dresden-Rossendorf, Germany
- 1997 – 2000: Assistant Professor, Institute of Semiconductor Electronics, RWTH Aachen
- 1993 – 1996: PhD Thesis at Institute of Semiconductor Electronics (Prof. Heinrich Kurz), RWTH Aachen
- 1993: Diploma Thesis at RWTH Aachen
- 1986 – 1993: Studies of Physics, RWTH Aachen

Awards and Fellowships:

- 2013: Senior Member Optical Society of America
- 2006: Technology Award, Helmholtz Research Center Dresden-Rossendorf
- 2001: Gustav-Hertz Award, German Physical Society
- 2000: Benningsen-Foerder Award, State of North-Rhine Westfalia
- 2000: Research Fellow, Electrotechnical Laboratory, Tsukuba, Japan
- 1996: Borchers Medal of the RWTH Aachen
- 1993: Young Scientist Award, European Materials Research Society

Selected Services for the International Scientific Community:

- since 2009: Program Committee International Conference on Quantum Electronics and Laser Science- Europe, CLEO Europe – Terahertz: Fundamentals and Applications (Munich), Co-chair 2011, Chair 2015
- since 2010: Programm Committee Phonons (2010 Taipeh, Taiwan; 2012 Ann Arbor, USA; 2015 Nottingham, UK)
- since 2012: Programm Committee Ultrafast Optics (2013 Davos, Sitzerland)
- since 2006: Program Committee/Organizer International Summerschool “Son et Lumiere: from Microphotonics to Nanophononics (2006-2010 Cargese, Corse, France; 2012, 2015 Les Houches, France)
- since 2009: Member, Scientific Advisory Committee, Helmholtz Center Dresden-Rossendorf

Referee for Optics Letters, Optics Express, Physical Review Letters, Physical Review B, Nature, Nature Photonics, Nature Physics, Science, Review of Scientific Instruments, Applied Physics Letters, Journal of Applied Physics

Research interest: ultrafast phenomena, pump-probe spectroscopy, femtosecond technology, Terahertz spectroscopy, ultrafast dynamics in semiconductors, coherent acoustic and optical phonons, femtosecond nanomechanics

Total publications > 160, h-index 35, times cited >4100

Five Selected Publications:

1. G. Klatt, F. Hilser, W. Qiao, M. Beck, R. Gebbs, A. Bartels, K. Huska, U. Lemmer, G. Bastian, M.B. Johnston, M. Fischer, J. Faist, T. Dekorsy: **Terahertz emission from lateral photo-Dember currents**, Opt. Express. 18, 4939 (2010)
2. J. Neuhaus, D. Bauer, J. Zhang, A. Killi, J. Kleinbauer, M. Kumkar, S. Weiler, M. Guina, D. Sutter, T. Dekorsy: **Subpicosecond thin-disk laser oscillator with pulse energies of up to 25.9 microjoules by use of an active multipass geometry**. Opt. Expr. 16, 20530 (2008)
3. A. Bartels, R. Cerna, C. Kistner, A. Thoma, F. Hudert, C. Janke, T. Dekorsy: **Ultrafast time-domain spectroscopy based on high-speed asynchronous optical sampling**, Rev. Sc. Instr. 78, 035107 (2007)
4. T. Dekorsy, G.C. Cho, and H. Kurz, review: **Coherent phonons in condensed media**, in „Light Scattering in Solids“ VIII, eds. M. Cardona and G. Güntherodt (Springer, Berlin, 2000) 169-209
5. T. Dekorsy and J. Demsar, review: **Carrier dynamics in bulk semiconductors and metals after ultrashort pulse excitation**, in „Optical Techniques for Solid State Materials Characterization“, eds. R. Prasankumar and A.J. Taylor (CRC Press, 2011)

Patents (granted):

T. Dekorsy, M. Helm, A. Dreyhaupt, S. Winnerl, “Coherent terahertz radiation source”, WO/2006/047975, EP20050787095

M. Nagel, T. Dekorsy, H. Kurz, “Microstrip for microwave applications”, WO 2001/008251, EP1205005

T. Dekorsy, A. Bartels, H. Kurz, “Passively mode-coupled femtosecond Laser”, WO 2000/072412, EP1181753

T. Dekorsy, G. Klatt, K. Huska, U. Lemmer, G. Bastian, “Passive Terahertz radiation source without external bias”, US 8,563,955 B2