Curriculum Vitae of Peter Zijlstra

Personal information:		**Professional information:**
Surname:	Zijlstra	Molecular Plasmonics group
First name:	Peter	Department of Applied Physics &
Nationality:	Dutch	Institute for Complex Molecular Systems
		Eindhoven University of Technology
		Postbus 513
		5600 MB, Eindhoven, The Netherlands

EDUCATION

2005 – 2009: **PhD degree in photonics and physics (group: Centre for Micro-Photonics)**
Swinburne University of Technology, Melbourne, Australia.
Thesis title: Photothermal properties of gold nanorods and their application to five-dimensional optical recording.
Date of completion: 25 June 2009
Supervisors: Dr. J.W.M. Chon and Prof. Min Gu

2000 – 2005: **M.Sc Applied Physics (group: Complex Photonic Systems)**
University of Twente, Enschede, The Netherlands
Thesis title: The spherical laser: Experiments on lasing resonances in microspheres compared to Mie theory.
Date of completion: 12 May 2005
Supervisors: Prof. A.P. Mosk and Prof. A. Lagendijk

WORK EXPERIENCE

2012 – now : **Assistant professor** (tenured 2015),
Molecular Biosensors for Medical Diagnostics, Department of Applied Physics, & Institute for Complex Molecular Systems,
Eindhoven University of Technology, The Netherlands

2010 – 2012: **Veni Fellow,** Single-molecule Optics group, Leiden University, The Netherlands (Prof. M. Orrit).
Research: Plasmonics, biosensing, optical tweezing

2009: Postdoc, Single-molecule Optics group, Leiden University, The Netherlands (Prof. M. Orrit).

2005: Research assistant, COmplex Photonic Systems, University of Twente, The Netherlands (Prof. A.P. Mosk, Prof. A. Lagendijk, and. Prof. W.L. Vos).

BOOKS & BOOK CHAPTERS

P. Zijlstra, M. Orrit, A.F. Koenderink, *Metal nanoparticles for microscopy and spectroscopy*, in Nanoparticles: workhorses of nanoscience (edited by C. de Mello Donegá, Springer Verlag, 2014, ISBN: 978-3-662-44822-9)

J.W.M. Chon, A. Taylor, P. Zijlstra, *Plasmonic nanoparticle based optical recording and storage*, in Nanoplasmonics: Advanced device applications (edited by Chon and Iniewski, CRC Press, Boca Raton, USA, 2013, ISBN: 978-1-4665-1426-3)

P. Zijlstra, *Five-dimensional optical recording: Photothermal properties of individual gold nanorods and their application to five dimensional optical recording* (LAP Lambert Academic Publishing AG & Co. KG, Köln, Germany, 2009, ISBN: 978-3-8383-2449-4).

PATENTS

M. Gu, P. Zijlstra, J.W.M. Chon, and W. Min
Optical recording, storage and retrieval product, process, system and medium
WO2010127386 (based on PhD work and publication Z9. Nature **459,** 410-413 (2009))

P. Zijlstra, M.W.J. Prins
Plasmonic biosensor based on molecular conformation
TUE-174 / WO2016075226A1

M.W.J. Prins, M. Merkx, L.J. van Ijzendoorn, P. Zijlstra, and E.W.A. Visser
Biosensor based on a tethered particle
TUE-178 / WO2016096901A1

L. Albertazzi, M.W.J. Prins, and P. Zijlstra
Biosensor based on single-molecule fluorescence detection
TUE-179 / WO2016096908A1

M.W.J. Prins, P. Zijlstra, and L. Brunsveld
Dynamic switching biosensor
TUE-186 / WO2016075229A1