

Biographical Sketch of Thorsten Feichtner

Birthday and -place: February 4th 1981; Kötzing
Position: Post-Doctoral Position
Work address: Experimentelle Physik V
Physikalisches Institut
Julius-Maximilians-Universität Würzburg
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A. Education

- 16 Dissertation in Physics, “**Beyond the dipolar optical antenna**” (1.0), Julius-Maximilians-Universität Würzburg, Germany
- 09 – 12 diploma study at correspondence course for specialist journalism; finished as “Fachjournalist(FJS)”
- 08 Diplom (equals to M.Sc.) in Physics, “**FDTD-simulations of optical antennas**”, Julius-Maximilians-Universität Würzburg, Germany
- 04 Prediploma (equals to B.Sc.) in Physics, Julius-Maximilians-Universität Würzburg, Germany

B. Appointments

- 17 – today PostDoc position at the nano optics und biophotonics group of Prof. Bert Hecht, Julius-Maximilians-Universität Würzburg, Germany
- 15 – 16 PostDoc position at the ‘Institute of Nano-Architectures for Energy Conversion’ at the Helmholtz-Zentrum Berlin für Energie und Materialien GmbH
- 13 – 14 PostDoc position at the TDSU “Photonic Nanostructures”, Max-Planck-Institute for the Science of Light in Erlangen
- 08 – 13 PhD position at the nano optics und biophotonics group of Prof. Bert Hecht, Julius-Maximilians-Universität Würzburg, Germany
- 06 – 08 Research assistant at the private „Institut für Gravitations-forschung“ (IGF) of the „Göde Wissenschaftsstiftung“, Waldscaff, Germany (additional for 6 month in 2013)

C. Research Interests

- Plasmonics with metallic nanostructures with focus on single emitter coupling, chiral photonics and electric effects
- Nano-patterning with ion beam technology (Gallium & Helium)
- Geometrical, optical and electric characterization of nanoarchitectures: Confocal Microscopy, Spectroscopy, AFM, SEM, KPFM
- Numerical solving of Maxwells-equations (Lumerical FDTD Solutions, Comsol)
- Evolutionary Optimization (self-designed algorithm)

D. Scientific Merits

- a. 10 publications in peer-reviewed journals
- b. h-index = 5
- c. 12 talks at conferences, seminars (1 invited colloquiums presentation)
- d. 8 Posters at conferences and seminars
- e. 1st poster award 491. WEH-Seminar - Quantum and Nano Plasmonics
- f. 3rd poster award 546. WEH-Seminar - Light in disordered photonic media

E. Committees and Reviewer Responsibilities

- Reviewer for Optics Express and Journal of Microscopy
- Coordination of the DFG SPP 1839 "Tailored Disorder" (2015 - 16)

F. Five most important publications from past 5 years

1. T. Feichtner, S. Christiansen and B. Hecht, Physical Review Letters, 119, 217401 (2017).
2. T. Feichtner, O. Selig, and B. Hecht, Optics Express, 25, 10828 (2017).
3. P. Then, G. Razinskas, T. Feichtner, P. Haas, A. Wild, N. Bellini, R. Osellame, G. Cerullo, and B. Hecht, Phys. Rev. A 89, 053801 (2014).
4. B. Hoffmann, M.Y. Bashouti, T. Feichtner, M. Mačković, C. Dieker, A.M. Salaheldin, P. Richter, O. Gordan, D. Zahn, E. Spiecker, and S. Christiansen, Nanoscale, 8, 4529-4536 (2016).
5. K. Chen, G. Razinskas, T. Feichtner, S. Grossmann, S. Christiansen, and B. Hecht, Nano Letters, 16, 2680–5 (2016).

H. Scientific education within the last five years

Bachelor

Martin Baußenwein: „Nahfeldverstärkung dipolarer metallischer Nanoantennen mit rechteckigem Querschnitt in Abhängigkeit vom Einfallswinkel der optischen Anregung“

Florian Bauer: „Split-ring-antennas for incoupling into plasmonic waveguides“

Diploma / Master

Markus Kiunke: „Evolutionäre Optimierung plasmonischer Nanostrukturen“

Oleg Selig: „Evolutionäre Algorithmen für plasmonische Nanoantennen - Von der Implementierung zur Messung“