

CV Christian Hoffmann

since 10/2010	Lecturing at the <i>iba</i> about “biosensors” in the framework of the master course “miniaturized biotechnology”
10/2007 – 7/2010	Lecturing at the University of Applied Sciences Coburg “Modern sensor systems in biotechnology” (2 hours per week)
since 10/2006	Heading the Junior Research Group at the Institute for Bioprocessing and Analytical Measurement Techniques (<i>iba</i>) Heilbad Heiligenstadt
09/2001 – 08/2006	Fraunhofer Institute for Physical Measurement Techniques Freiburg
04/2002	Received the „Dr. rer. nat.“ from the faculty of chemistry at the University of Stuttgart, thesis: “Self-assembled organosilane monolayers for the functionalization of silicon oxide surfaces for the oriented peptide and protein immobilization”
01/1998 – 08/2001	Fraunhofer Institute for Interfacial Engineering and Biotechnology Stuttgart / Institute for Interfacial Engineering Stuttgart
05/1997	Graduated as chemist from the University of Erlangen, thesis: Development of optically transparent electrodes for spectro-electrochemical investigations of proteins in the UV-vis-IR spectral range: characterization of electrodes by cytochrom <i>c</i> ”
10/1990 – 05/1997	Studied chemistry at the University of Erlangen
05/1989	Abitur at the Franz-Ludwig-Gymnasium Bamberg

Selected Publications

- [1] X. Vinzenz, E. Hüger, M. Himmerlich, S. Krischok, S. Busch, J. Wöllenstein, C. Hoffmann*, Preparation and characterization of poly-(L-histidine)/poly-(L-glutamic acid) multilayer on silicon with nanometer-sized surface structures, **J. Colloid Interface Sci.**, *in press*: DOI 10.1016/j.jcis.2012.07.057
- [2] S. Möller, U. Pliquet, C. Hoffmann*, Synthesis of molecular photoswitches based on azobenzene with organosilane anchor, **RSC Advances** 2 (11/2012) 4792–4801.
- [3] X. Wang, S. Werner, T. Weiß, K. Liefeth, C. Hoffmann*, *o*-Nitrobenzyl alcohol based two-photon excitation controlled drug release system, **RSC Advances** 2 (1/2012) 156-160.
- [4] K. Schmitt, J. Rist, C. Hoffmann*, Optical waveguides for evanescent wave induced cleavage of photolabile linker compounds, **Anal. Bioanal. Chem.** 401 (2/2011) 777-782.
- [5] K. Büchner, N. Ehrhardt, Brian P. Cahill, C. Hoffmann*, Internal reflection ellipsometry for real-time monitoring of polyelectrolyte multilayer growth onto tantalum pentoxide, **Thin Solid Films** 519 (2011) 6480–6485.
- [6] S. Grohmann, H. Rothe, S. Eisenhuth, C. Hoffmann, K. Liefeth*, Biomimetic assembly of polyelectrolyte multilayers containing phosvitin monitored with reflectometric interference spectroscopy, **Biointerphases** 6 (2/2011) 54-62.
- [7] K. Schmitt, C. Hoffmann*, High-refractive-index waveguide platforms for chemical and biosensing, in **Springer Series on Chemical Sensors and Biosensors**, Vol. 7, Optical Guide-wave Chemical and Biosensors I, Eds.: M. Zourob, A. Lakhtakia, pp 21-54, Springer Verlag Berlin Heidelberg, 2010.
- [8] K. Schmitt, K. Oehse, G. Sulz, C. Hoffmann*, Evanescent field sensors based on tantalum pentoxide waveguides – a review, **Sensors** 8 (2008) 711-738.
- [9] M. Kemmler, M. Fratz, D. Giel, N. Saum, A. Brandenburg, C. Hoffmann*, Non-invasive time-dependent cytometry monitoring by digital holography, **J. Biomed. Optics** 12 (6/2007) 064002.
- [10] K. Schmitt, B. Schirmer, C. Hoffmann*, A. Brandenburg, P. Meyrueis, Interferometric biosensor based on optical planar waveguide sensor chips for label free detection of surface bound bioreactions, **Biosens. Bioelectron.** 22 (2007) 2591-2597.