

Dr.-Ing. Christian Goßler

GENERAL INFORMATION

Date of birth: 12.04.1985
Address: Optics Modules Group
Institute for Auditory Neuroscience
University Medical Center Göttingen
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Current position: Group leader, Institute for Auditory Neuroscience

ACADEMIC EDUCATION

2010-2016 PhD Student, Fraunhofer Institute for Applied Solid State Physics (IAF) and Department of Microsystems Engineering (IMTEK), University of Freiburg
2005-2010 Diploma studies in Physics, University of Regensburg

SCIENTIFIC DEGREES

2016 PhD (Dr.-Ing.), University of Freiburg (Prof. U. T. Schwarz)
2010 Diploma in Physics, University of Regensburg (Prof. U. T. Schwarz)

PROFESSIONAL CAREER AFTER COMPLETING DEGREE

Since 2022 Group leader, Optics Modules Group, Institute for Auditory Neuroscience, University Medical Center, Göttingen
2020-2022 Postdoc, Experimental Sensor Science, Institute of Physics (TU Chemnitz)
2019 Co-Founder of OptoGenTech GmbH
2017-2020 Technical Project Leader, Photonik Inkubator GmbH, Göttingen
2016-2017 Postdoc, Department of Microsystems Engineering (IMTEK), University of Freiburg

MISCELLANEOUS

Fellowships, Awards and Honors (Selected)

2014 Paper Award for [1], Journal of Physics D: Applied Physics, "Highlights of 2014"

SELECTED PUBLICATIONS (with scientific assurance)

- Goßler C**, Bierbrauer C, Moser R, Kunzer M, Holc K, Pletschen W, Köhler K, Wagner J, Schwärzle M, Ruther P, Paul O, Hernandez V, Hoch G, Moser T, Schwarz UT (2014) GaN-based micro-LED arrays on flexible substrates for optical cochlear implants. J Phys D: Applied Physics 47: 205401.
- Goßler C**, Kunzer M, Baum M, Wiemer M, Moser R, Passow T, Köhler K, Schwarz UT, Wagner J, (2013) Aluminum–germanium wafer bonding of (AlGaIn) N thin-film light-emitting diodes. Microsyst Technol 19: 655-659.
- Klein E, **Goßler C**, Paul O, Schwarz UT, Ruther P (2019) High-yield indium-based wafer bonding for large-area multi-pixel optoelectronic probes for neuroscientific research. J Micromech Microeng 29: 095006.
- Klein E, **Goßler C**, Paul O, Ruther P (2018) High-Density μ LED-Based Optical Cochlear Implant with Improved Thermomechanical Behavior, Front Neurosci 12: 659.
- Dinakaran D, **Goßler C**, Mounir C, Paul O, Schwarz UT, Ruther P (2017) Phosphor-based light conversion for miniaturized optical tools, Appl Opt 56: 3654-3659.

6. Delmdahl R, Pätzelt R, Brune J, Senczuk R, **Goßler C**, Moser R, Kunzer M, Schwarz UT (2012) Line beam processing for laser lift-off of GaN from sapphire, *physica status solidi (a)* 12: 2653-2658.
7. Moser R, Kunzer M, **Goßler C**, Köhler K, Pletschen W, Schwarz UT, Wagner J (2012) Laser processing of gallium nitride-based light-emitting diodes with ultraviolet picosecond laser pulses, *Opt Eng* 11: 114301.
8. Moser R, Kunzer M, **Goßler C**, Köhler K, Pletschen W, Brunne J, Schwarz UT, Wagner J (2013) Laser direct writing of GaN-based light-emitting diodes—The suitable laser source for mesa definition, *J Appl Phys* 10: 103107.

Patents (issued)

1. **Goßler C**, Schwarz UT, Ruther P; Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., Albert-Ludwigs-Universität Freiburg; Method for producing a micro-LED matrix, micro-LED matrix and use of a micro-LED matrix (US10276631 B2, DE102012217957 B4, priority date: October 1st 2012, publication date: April 3rd 2014).
2. **Goßler C**, Moser R, Schwarz UT, Kunzer M, Wagner J; Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.; Verfahren zur Herstellung einer Lumineszenzkonversions-Leuchtdiode (DE102011122778 B3, priority date: November 24th 2011, publication date: March 28th 2013).