Talks and Conference Contributions

[1] S. Bader, P. Gerlach, and R. Michalzik, "VCSELs with optically controlled current confinement: experiments and analysis", *SPIE Photonics Europe*, Conf. on *Semiconductor Lasers and Laser Dynamics VII*, Brussels, Belgium, Apr. 2016.

[2] S. Bader, P. Gerlach, and R. Michalzik, "VCSELs with optically controlled current confinement", *European VCSEL Day 2016*, Darmstadt, Germany, June 2016.

[3] M. Caliebe, T. Meisch, F. Scholz, M. Hocker, and K. Thonke, "Investigations about parasitic n-type doping in semipolar GaN", *International Workshop on Nitride Semiconductors, IWN2016*, Orlando, USA, Oct. 2016.

[4] M. Daubenschüz and R. Michalzik, "Parameter extraction from temperature-dependent light–current–voltage data of vertical-cavity surface-emitting lasers", *SPIE Photonics Europe*, Conf. on *Semiconductor Lasers and Laser Dynamics VII*, Brussels, Belgium, Apr. 2016.

[5] M. Daubenschüz and R. Michalzik, "Thermal parameter extraction from continuous-wave light-current-voltage data of VCSELs", *European VCSEL Day 2016*, Darmstadt, Germany, June 2016.

[6] K.J. Ebeling, "25 years of VCSEL research and development at Ulm University and Philips Photonics", *25th International Semiconductor Laser Conf., ISLC 2016*, Kobe, Japan, Sep. 2016.

[7] D. Heinz, M.F. Schneidereit, V. Devaki Murugesan, S. Bian, L. Wu, F. Huber, B. Hörbrand, S. Chakrabortty, Y. Wu, T. Weil, K. Thonke, and F. Scholz, "Sensing the iron-load of ferritin biomolecules using GaInN quantum wells as optochemical transducers", *International Workshop on Nitride Semiconductors, IWN2016*, Orlando, USA, Oct. 2016.

[8] D. Heinz, M.F. Schneidereit, M. Spiess, S. Bian, L. Wu, F. Scholz, F. Huber, B. Hörbrand, K. Thonke, S. Chakrabortty, Y. Wu, and T. Weil, "Biosensorik mit Halbleiter-Heterostrukturen", *BioRegio-Workshop*, Ulm, Germany, Oct. 2016.

[9] D. Heinz, M.F. Schneidereit, S. Bian, L. Wu, F. Scholz, F. Huber, B. Hörbrand, K. Thonke, S. Chakrabortty, Y. Wu, and T. Weil, "Biochemical sensing based on the photolumionescence response of polar GaInN quantum wells", *Sensor-Workshop*, Duisburg, Germany, Dec. 2016.

[10] T. Meisch, M. Caliebe, M. Hocker, K. Thonke, and F. Scholz, "Semipolar GaInN-GaN quantum well structures grown on patterned saphire wafers", *PolarCon*, Stuttgart, Germany, Feb. 2016.

[11] T. Pusch, M. Bou Sanayeh, M. Lindemann, N.C. Gerhardt, M.R. Hofmann, and R. Michalzik, "Birefringence tuning of VCSELs", poster at *SPIE Photonics Europe*, Conf. on *Semiconductor Lasers and Laser Dynamics VII*, Brussels, Belgium, Apr. 2016.

[12] O. Rettig, J.-P. Scholz, S. Bauer, K. Thonke, Y. Li, H. Qi, J. Biskupek, U. Kaiser, and F. Scholz, "Investigation of AlBGaN structures for UV-lighting", Georgia Institute of Technology, Metz, France, Mar. 2016

[13] O. Rettig, J.P. Scholz, S. Bauer, F. Scholz, K. Thonke, H. Qi, Y. Li, J. Biskupek, and U. Kaiser, "Investigation of epitaxially grown AlBN layers on AlN templates", *European Materials Research Society, EMRS2016*, Warsaw, Poland, Sep. 2016.

[14] O. Rettig, J.P. Scholz, S. Bauer, H. Qi, Y. Li, J. Biskupek, U. Kaiser, F. Scholz, and K. Thonke, "Boron containing AlGaN layers for UV lighting", *International Workshop on Nitride Semiconductors, IWN2016*, Orlando, USA, Oct. 2016.

[15] O. Rettig, J.P. Scholz, S. Bauer, H. Qi, Y. Li, J. Biskupek, U. Kaiser, F. Scholz, and K. Thonke,"Investigation of crystal properties of epitaxially grown AlBN layers with boron content in the lower percentage regime", *31th DGKK Workshop Epitaxy of III/V Semiconductor*, Duisburg, Germany, Dec. 2016.

[16] M.F. Schneidereit, D. Heinz, F. Huber, S. Chakrabortty, T. Sandner, F. Scholz, K. Thonke, and T. Weil, "(In)GaN nanostructures for optical biosensing", poster at *Doktoranden-unter-sich-Seminar*, Bad Herrenalb, Germany, Oct. 2016.

[17] M.F. Schneidereit, D. Heinz, O. Rettig, F. Huber, B. Hörbrand, S. Chakrabortty, N. Naskar, F. Scholz, K. Thonke, and T. Weil, "Optimisation of (In)GaN quantum wells for optical (bio)chemical sensing: numerical and experimental convergence", *31th DGKK Workshop Epitaxy of III/V Semiconductor*, Duisburg, Germany, Dec. 2016.

[18] N.C. Gerhardt, M. Lindemann, T. Pusch, R. Michalzik, and M.R. Hofmann, "Birefringent vertical-cavity surface-emitting lasers: toward high-speed spin-lasers" (invited), *SPIE Photonics Europe*, Conf. on *Semiconductor Lasers and Laser Dynamics VII*, Brussels, Belgium, Apr. 2016.

[19] N.C. Gerhardt, M. Lindemann, T. Pusch, R. Michalzik, and M.R. Hofmann, "High-frequency operation of spin vertical-cavity surface-emitting lasers: towards 100 GHz" (invited), *SPIE Optics + Photonics 2016*, Conf. on *Spintronics IX*, San Diego, CA, USA, Aug./Sep. 2016.

[20] M. Lindemann, N.C. Gerhardt, M.R. Hofmann, T. Pusch, and R. Michalzik, "Influence of birefringence splitting on ultrafast polarization oscillations in VCSELs", *SPIE Photonics West 2016*, Conf. on *Vertical-Cavity Surface-Emitting Lasers XX*, San Francisco, CA, USA, Feb. 2016.

[21] M. Lindemann, T. Pusch, R. Michalzik, N.C. Gerhardt, and M.R. Hofmann, "Frequency tuning of polarization oscillations in spin-polarized vertical-cavity surface-emitting lasers", *SPIE Photonics Europe*, Conf. on *Semiconductor Lasers and Laser Dynamics VII*, Brussels, Belgium, Apr. 2016.

[22] M. Lindemann, N.C. Gerhardt, M.R. Hofmann, T. Pusch, and R. Michalzik, "Frequency tuning of polarization oscillations in spin-lasers", poster at *SPIE Optics + Photonics 2016*, Conf. on *Spintronics IX*, San Diego, CA, USA, Aug./Sep. 2016.