

Publications – Prof. Dr. Bernd Hüttel

- 1) *Das automatisierte Mikrofluorimeter mit quasisimultaner Fluoreszenz- und Bildanalyse*; B. Hüttel, W. Rinck, T. Trompa, N. Kempe; Tagungsband der 54. Physikertagung der DPG, München, 1990, 58
- 2) *Lasermikrofluorimeter mit simultaner zeitaufgelöster Fluoreszenz- und Bildanalyse*; B. Hüttel, W. Rinck, T. Trompa, N. Kempe; Tagungsband der 10. Internationalen Fachmesse und des Internationalen Kongresses Laser 91, München, 1991, 328
- 3) *Luminescence Decay and Efficiency of the Eu^{2+} Emission in SrS*, B. Hüttel, G.O. Müller, R. Mach, C. Fouassier, J. Kreissl, P. Benalloul, H. Xian, C. Barthou, 6th International Workshop on Electroluminescence, El Paso 1992, Proc. 6th International Workshop on Electroluminescence, 123
- 4) *Photoluminescence and Efficiency of Ce^{3+} in SrS Powders*, B. Hüttel, G.O. Müller, R. Mach, C. Fouassier, P. Benalloul, Proc. of the European II-VI Workshop, Aachen 1992, Adv. Mat. for Opt. and Elect. 3 (1993), 131
- 5) *ZnS:Mn/SrS:Ce Multilayer Devices for Full Color EL Applications*, R.H. Mauch, K.O. Velthaus, B. Hüttel, H.W. Schock, 1993 SID Int. Symp., Digest of Technical Papers, SID, Seattle, 1993, 769.
- 6) *Properties of Efficient ZnS:Mn/SrS:Ce TFEL Multilayer Devices*, B. Hüttel, K.O. Velthaus, U. Troppenz and R.H. Mauch, Proc. 13th Int. Display Res. Conf, Le Club Visu and SID, Strasbourg, 1993, 515.
- 7) *Trailing Edge Phenomena in SrS:CeCl₃ Thin Film Electroluminescent Devices*, U. Troppenz, B. Hüttel, K.O. Velthaus and R.H. Mauch, J.Cryst.Growth 138, 1994, 1017.
- 8) *Carrier Sourcing in SrS:Ce,Cl Thin Film EL-Devices*, U. Troppenz, B. Hüttel, K.O. Velthaus, and R.H. Mauch, 7th International Workshop on Electroluminescence, Beijing, 1994, Proc. 7th International Workshop on Electroluminescence, 162.
- 9) *Novel Anion Precursor for Alkaline-Earth based Thin Film Electroluminescence*, K.O. Velthaus, U. Troppenz, B. Hüttel, R. Herrmann, and R.H. Mauch, 7th International Workshop on Electroluminescence, Beijing, 1994, Proc. 7th International Workshop on Electroluminescence 445.
- 10) *Luminescence Properties of SrS:Ce³⁺ Thin Films and Powders*, B. Hüttel, K.-O. Velthaus, U. Troppenz, R.H. Mauch, 186th Meeting of The Electrochemical Society, Miami, 1994, Extended Abstracts, Vol. 94/2, 878
- 11) *High Luminance ZnS:Mn/SrS:Ce TFEL Devices*, K.O. Velthaus, U. Troppenz, B. Hüttel, R. Herrmann, and R.H. Mauch, Conf. Rec. of 14th International Display Research Conference, Monterey, 1994, 346.
- 12) *Luminescence Yield of SrS:Ce, Na Powders*, B. Hüttel, U. Troppenz, H. Venghaus, R.H. Mauch, J. Kreissl, A. Garcia, C. Fousassier, P. Benalloul, C. Barthou, J. Benoit, F. Gendron and C. Ronda, Mat. Sci. Forum 182-184, 1995, 263
- 13) *Improved SrS:Ce,Cl TFEL Devices by ZnS Coevaporation*, R.H. Mauch, K.O. Velthaus, B. Hüttel, U. Troppenz, R. Herrmann, SID Int. Symp., Digest of Technical Papers, SID, Orlando, 1995, 720.
- 14) *Luminescence Properties of SrS:Ce³⁺*, B. Hüttel, U. Troppenz, K.O. Velthaus, C.R. Ronda, R.H. Mauch, J. Appl. Phys. Vol 78 No. 12, 1995, 7282
- 15) *Vollfarb Elektrolumineszenzdisplay nach dem „Farbe aus Weiß“ Konzept*, K.O. Velthaus, B. Hüttel, U. Troppenz, R. Herrmann, R.H. Mauch: Proc. Electronic Displays, Chemnitz 1995, 49.
- 16) *SrS:Ce,Mn,Cl - a Novel Efficient EL Phosphor*, B. Hüttel, K.O. Velthaus, U. Troppenz, R. Herrmann, R.H. Mauch, J. Cryst. Growth, Vol. 159, 1996, 943.
- 17) *Fortschritte in der Dünnschicht-Elektrolumineszenz*, R.H. Mauch, K.O. Velthaus, B. Hüttel, Konferenzband der Electronic Displays, Chemnitz, 1996, 23.
- 18) *Study of Carrier Transport in SrS:Ce,Mn,Cl Electroluminescent Devices by Optical Method*, B. Hüttel, P. Kratzert, K. Lite, B. Reinsperger, T.K. Plant, R.H. Mauch, in: *Inorganic and Organic Electroluminescence*, Herausgeber: R.H. Mauch und H.-E. Gumlich, W&T-Verlag Berlin, 1996, 73.
- 19) *Characterization of Ce and Mn Activators in SrS Electroluminescent Materials: an EPR Study*, J. Kreissl, B. Hüttel, U. Troppenz, K.O. Velthaus, R.H. Mauch, C. Fouassier, in: *Inorganic and Organic Electroluminescence*, Herausgeber: R.H. Mauch und H.-E. Gumlich, W&T-Verlag Berlin, 1996, 177.
- 20) *Ion Beam Analysis of SrS:Ce Thin Films*, W.-M. Li, J. Jokinen, M. Ritala, M. Leskelä, E. Soininen, B. Hüttel, in: *Inorganic and Organic Electroluminescence*, Herausgeber: R.H. Mauch und H.-E. Gumlich, W&T-Verlag Berlin, 1996, 157.
- 21) *Luminescence Properties of SrS:Ce Thin Films*, B. Hüttel, K.O. Velthaus, U. Troppenz, J. Kreissl, R.H. Mauch, in: *Inorganic and Organic Electroluminescence*, Herausgeber: R.H. Mauch und H.-E. Gumlich, W&T-Verlag Berlin, 1996, 319.
- 22) *Thermoluminescence and Photostimulated Luminescence of Calcium Halophosphate Doped with Eu*, V.X. Quang, N.M. Son, P.T. Yen, T.H. Mai, B. Hüttel, U. Troppenz, R.H. Mauch, phys. stat. sol. (a), Vol. 156, 1996, 209.

- 23) *Electron Multiplication in SrS:Ce,Cl Electroluminescent Devices: A Study by Optically Generated Carriers*, P. Kratzert, B. Hüttl, U. Troppenz, K.O. Velthaus, R. Herrmann, R.H. Mauch, 2th Int. Conf. on the Science of Display Phosphors, San Diego, 1996, Extended Abstracts, 73.
- 24) *Variation of Carrier Transport and Luminescence in SrS:Ce ACTFEL Devices with Temperature and Aging*, K. Lite, T.K. Plant, B. Hüttl, R.H. Mauch, 2th Int. Conf. on the Science of Display Phosphors, San Diego, 1996, Extended Abstracts, 69.
- 25) *Luminescence Properties of SrS:Ce³⁺,Cl Thin Films*, B. Hüttl, K.O. Velthaus, U. Troppenz, R.H. Mauch, J. of the SID, Vol. 4/4, 1996, 275.
- 26) *Electrical Properties of SrS:Ce EL Devices*, U. Troppenz, T. Plant, B. Hüttl, K.O. Velthaus, R.H. Mauch, J. of the SID, Vol. 4/4, 1996, 293.
- 27) *Electro-Optic Excitation/Deexcitation Effects in SrS:Ce ACTFEL Devices from 15 K-300K*, T.K. Plant, U. Troppenz, B. Hüttl, K.O. Velthaus, R.H. Mauch, J. of the SID, Vol. 4/4, 1996, 287.
- 28) *Electron- Paramagnetic- Resonance Investigation of SrS:Ce Powders and Thin Films*, J. Kreissl, B. Hüttl, U. Troppenz, K.-O. Velthaus, R.H. Mauch, C. Fouassier, J. Appl. Phys., Vol. 80, No. 9, 1996, 5218.
- 29) *Vollfarb-Elektrolumineszenzdisplay-Studie nach dem „Farbe aus Weiß“-Prinzip*, K.-O. Velthaus, B. Hüttl, R. Herrmann, R.H. Mauch, Konferenzband der Electronic Displays, Chemnitz, 1997, 59.
- 30) *New Deposition Process for Very Blue and Bright SrS:Ce,Cl TFEL Devices*, K.-O. Velthaus, B. Hüttl, U. Troppenz, R. Herrmann, R.H. Mauch; SID Int. Symp., Digest of Technical Papers, SID, Boston, 1997, 411.
- 31) *High Efficiency Blue from SrS:Ce/ZnS.Mn ‘Color by White’ Thin Film Electroluminescence Devices*, T.A. Oberacker, U. Troppenz, B. Hüttl, T. Gaertner, R. Herrmann, and K.-O. Velthaus, International Display Research Conference, 1997, Conference Record, .297
- 32) *Optische und elektro-optische Charakterisierung von SrS:Ce- Pulvern und EL- Bauelementen*, B. Hüttl, Dissertation, Humboldt-Universität zu Berlin, 1997.
- 33) *On the Radiative Transition of SrS:Ce³⁺ in High Electric Fields*, B. Hüttl, U. Troppenz, R.H. Mauch⁺, P. Kratzert, T.A. Oberacker, K.-O. Velthaus, 3th Int. Conf. on the Science of Display Phosphors, Huntington Beach, 1997, Extended Abstract, 89.
- 34) *Influence of Ag Codoping on the Optical Properties of SrS:Ce,Mn,Cl Thin Films*, U. Troppenz, B. Hüttl, P. Kratzert, R.H. Mauch, T.A. Oberacker, K.-O. Velthaus; 3th Int. Conf. on the Science of Display Phosphors, Huntington Beach, 1997, Extended Abstract, 101.
- 35) *Low-Temperature Deposition for SrS:Cu,Ag EL-Phosphor*, K.-O. Velthaus, B. Hüttl, U. Troppenz, T. Gaertner, G. Bilger; 9th International Workshop on Inorganic and Organic Electroluminescence/4th International Conference on the Science and Technology of Display Phosphors, Bend, 1998, Extended Abstracts, 231.
- 36) *Photoluminescence and Electroluminescence studies on Cu and Ag doped SrS ACTFEL devices*, U. Troppenz, B. Hüttl, P. Kratzert, U. Storz, K.-O. Velthaus S.-S. Sun, D. Tuenge; 9th International Workshop on Inorganic and Organic Electroluminescence/4th International Conference on the Science and Technology of Display Phosphors, Bend, 1998, Extended Abstracts, 187.
- 37) *The Potential of SrS:Ce³⁺ as Electroluminescence Phosphor*, B. Hüttl, U. Troppenz, S. Richter, K.O. Velthaus; 9th International Workshop on Inorganic and Organic Electroluminescence/4th International Conference on the Science and Technology of Display Phosphors, Bend, 1998, Extended Abstracts, 335.
- 38) *Elemental characterization of electroluminescent SrS:Ce thin films*, W.-M. Li, M. Ritala, M. Leskelä, R. Lappalainen, J. Jokinen, E. Soininen, B. Hüttl, E. Nykänen, L. Niinistö; J. Appl. Phys, Vol. 84, 1998, 1029.
- 39) *Electron-paramagnetic-resonance and photoluminescence studies of chromium in SrS*, J. Kreissl, U. Troppenz, B. Hüttl, L. Schrottke, C. Fouassier; Appl. Phys. Lett., Vol. 72, 1998, 1232.
- 40) *Influence of Silver on SrS based EL devices*; K.-O. Velthaus, U. Troppenz, S. Schlüter, B. Hüttl; Proceeding of 19th Inter. Display Research Conf., Berlin, 1999, 247
- 41) *Blau emittierende SrS:Cu,Ag-Dünnschichten für die Farb-Elektrolumineszenz*; B. Hüttl, S. Schlüter, T. Gaertner, U. Troppenz, G. Bilger, W. Bohne, J. Röhrich, K.-O. Velthaus, Konferenzband der 14. Electronic Displays, Berlin, 1999, 41
- 42) *SrS:Cu⁺, SrS:Cu⁺,Ag⁺ electroluminescence at operational temperatures up to T = 350 K*; U. Troppenz, V. Pohl, B. Hüttl, S. Schlüter, K.-O. Velthaus; Proc. 5th Int. Conf. on the Science and Technology of Display Phosphors, 1999
- 43) *“High single-mode-yield multiple-wavelength DFB-laser arrays in the 1.55 μm range”*; J. Kreissl, U. Troppenz, W. Rehbein, B. Hüttl, E. Lenz, H. Venghaus, Proc. 27th Europ. Conf. on Optical Communication (ECOC 2001), Amsterdam, Tu.B.1.1, p118
- 44) *“Characterization of ion-implanted 1.55 μm Fabry-Perot lasers for application as mode-locked pulse sources”*, B. Huettl, S. Fidorra, H. Heidrich, E. Hilliger, R. Kaiser, M. Kroh, I. Küller, R. Ludwig, M. Marembert, W. Rehbein, S. Ritter, Proc. European. Semicond. Laser Workshop, Kopenhagen, 2002

- 45) "Tunable Monolithic Mode-Locked Lasers on GaInAsP/InP with 2 ps Pulses and low timing jitter", R. Kaiser, B. Huettl, H. Heidrich, S. Fidorra, W. Rehbein, H. Stolpe, R. Stenzel, F. Boczianowski, G. Jacumeit, M. Kroh, Proc. 18th International Semiconductor Laser Conference, Garmisch-Partenkirchen, 2002, post-deadline-paper PD2.
- 46) "Monolithic mode-locked laser on GaInAsP/InP for 160 Gbit/s TDM applications", B. Huettl, R. Kaiser, F. Boczianowski, S. Fidorra, H. Heidrich, G. Jacumeit, M. Kroh, W. Rehbein, R. Stenzel, H. Stolpe, Proc. Optical Fiber Communication Conference, Atlanta, 2003, paper FF7.
- 47) "Tunable monolithic mode-locked lasers on InP with low timing jitter", R. Kaiser, B. Huettl, H. Heidrich, S. Fidorra, W. Rehbein, H. Stolpe, R. Stenzel, W. Ebert, G. Sahin, IEEE Photon. Technol. Lett. Vol. 15, No. 5, 2003, pp. 634-636,
- 48) "Repetition rate and wavelength tuning of monolithic 40 GHz mode-locked lasers based on InP", R. Kaiser, B. Huettl, W. Rehbein, H. Stolpe, H. Heidrich, S. Fidorra, R. Stenzel, G. Jacumeit, M. Kroh, Proc. 15th Indium Phosphide and Related Materials Conference 2003, Santa Barbara, pp. 255-258 (paper# WB1.6)
- 49) "Experimental Characterization of Monolithically Integrated 40 GHz Mode-locked Lasers on InP", B. Huettl, R. Kaiser, W. Rehbein, H. Stolpe, M. Kroh, S. Ritter, R. Stenzel, S. Fidorra, G. Sahin, G. Jacumeit, H. Heidrich, Tagungsband des 3rd Workshop on Dynamics of Semiconductor Lasers, Berlin, 2003.
- 50) "Noise Performance of Mode-locked 40 GHz Pulse Source Modules", B. Huettl, R. Kaiser, M. Kroh, W. Rehbein, H. Stolpe, S. Fidorra, R. Stenzel, G. Jacumeit*, and H. Heidrich, Proc. Laser & Electro Optics Society Conference (LEOS), Tucson, pp. 47-48, Vol. 1, paper#: ME2, 2003.
- 51) „Sources for fibre optic communication networks - recent OEIC developments“, H. Venghaus, H. Heidrich, D. Hoffmann, B. Hüttl, M. Möhrle, R. Kaiser, J. Kreißl, S. Staroske, K.O. Velthaus, Proc. 3rd Joint Symposium on Opto-and Microelectronic Devices and Circuits (SODC 2004), Wuhan (China), 2004, pp. 59-62
- 52) „Mode-locking characteristics vs. wavelength tuning of monolithic InGaAsP/InP mode-locked 40 GHz DBR-lasers“ B. Huettl, R. Kaiser, Ch. Kindel, H. Stolpe, S. Fidorra, W. Rehbein, S. Ritter, H. Heidrich, Proc. European. Semicond. Laser Workshop, Sarö, 2004
- 53) "Effects of On-chip Wavelength Tuning on Pulse and Noise Characteristics of Monolithic Mode-Locked 40 GHz SIPBH DBR Lasers", R. Kaiser, B. Huettl, C. Kindel, H. Stolpe, H. Heidrich, S. Fidorra, W. Rehbein, S. Ritter, G. Jacumeit, Proc. 19th Internat. Semiconductor Laser Conference, Matsue, p. 95, 2004
- 54) "Unifying mode-locking and self-pulsations in a laser with active feedback", S. Bauer, B. Hüttl, O. Brox, M. Biletzke, J. Kreißl, B. Sartorius, H.-J. Wünsche, Proc. OSA Conference "Optical Amplifiers and Their Applications", San Francisco, paper # OTuD2, 2004,
- 55) "40 GHz Mode Locked Semiconductor Lasers: Theory, Simulation and Experiments", U. Bandelow, M. Radziunas, A. Vladimirov, B. Hüttl, R. Kaiser, W. Rehbein, Proc. Annual Meeting of the Optical Society of America (OSA), Rochester, paper# FMD1, invited, 2004
- 56) "Low noise monolithic 40 GHz mode-locked DBR lasers based on GaInAsP/InP", B. Huettl, R. Kaiser, W. Rehbein, H. Stolpe, Ch. Kindel, S. Fidorra, A. Steffan, A. Umbach, H. Heidrich, Proc. 17th Indium Phosphide and Related Materials Conference, Glasgow, paper Tu / Optoelectr. 5, 2005
- 57) "Low Noise 400 fs Pulse Generation by Monolithic Semiconductor Mode-Locked Laser", M. Kroh, B. Hüttl, S. Ferber, H.-G. Weber, Proc. CLEO/EQEC EUROPE 2005, München, CB8-2 THU, p 125
- 58) "40 GHz Semiconductor Mode-Locked Laser Pulse Source for 160 Gb/s RZ-DPSK Data Transmission" C. Schubert, S. Ferber, M. Kroh, C. Schmidt-Langhorst, R. Ludwig, B. Hüttl, R. Kaiser, H.G. Weber., Proc. of European Conference on Optical Commun.2005, Glasgow, vol. 2, paper Tu 1.5.3, pp. 167-168, 2005
- 59) "Pulslaser für die optische Nachrichtentechnik - eine Option für die optische Taktverteilung in künftigen Rechnerstrukturen", B. Hüttl, R. Kaiser, H. Heidrich, H. Venghaus, Tagungsband des Workshops „Optik in der Rechentechnik“, ORT, Ilmenau, p. 54, 2005
- 60) "Monolithically integrated optical pulse sources for ultra-high speed applications", B. Huettl, R. Kaiser, Proc. of International Union of Radio Science 2005, New Delhi, invited paper: D07b.1, 2005
- 61) "40 GHz Mode-Locked Semiconductor Lasers: Theory, Simulations and Experiment", U. Bandelow, M. Radziunas, A.G. Vladimirov, B. Hüttl, R. Kaiser, Optical and Quant. Electr. Vol. 38, No. 4-6, (2006), pp. 495-512.
- 62) "Experimental Investigations on the Suppression of Q-switching in Monolithic 40 GHz Mode-Locked MQW DBR Lasers", B. Hüttl, R. Kaiser, Ch. Kindel, S. Fidorra, W. Rehbein, H. Stolpe, G. Sahin, U. Bandelow*, M. Radziunas*, A. Vladimirov*, and H. Heidrich, Appl. Phys. Lett., Vol. 88, (2006), 221104
- 63) "Q-switching instability in a mode-locked semiconductor laser", D. Rachinskii, A.G. Vladimirov, U. Bandelow, B. Hüttl, and R. Kaiser, J. Opt. Soc. Am. B., Vol. 23, Issue 4, (2006), pp. 663-670.
- 64) „Ultrafast Transmission technology“, R. Ludwig, S. Ferber, C. Schubert, C. Schmidt-Langhorst, B. Huettl and H.G. Weber, invited at Asian-Pacific Optical Communications 2006, Seoul (Korea), in Proc. of SPIE Vol. 6, paper 6353-81

- 65) „Single channel transmission beyond 1 Tbit/s“, C. Schubert, R. Ludwig, S. Ferber, C. Schmidt-Langhorst, B. Huettl and H.G. Weber, invited at 19th Annual Meeting of the IEEE Lasers and Electro-Optics Society 2006, Montreal (Canada) in Proc. Vol. 2, pp. 58-59, paper# PS 05
- 66) „Terabit Transmission on a Single Wavelength Channel“ C. Schubert, C. Schmidt-Langhorst, R. Ludwig, S. Ferber, B. Huettl and H.G. Weber, invited at 11th European Conference on Networks & Optical Communications (NOC), 2006, Berlin, in Proc. pp. 105-108
- 67) „Single Channel Transmission beyond 1 Tbit/s: Technology and Challenges“, C. Schubert, C. Schmidt-Langhorst, R. Ludwig, S. Ferber, B. Huettl and H.G. Weber, invited at 11th OptoElectronics and Communications Conference (OECC), 2006, Kaohsiung (Taiwan), in Proc., paper 4F2-1
- 68) „Single Channel Transmission beyond 1 Tbit/s“, R. Ludwig, S. Ferber, C. Schubert, C. Schmidt-Langhorst, B. Huettl and H.G. Weber, invited at 90th Annual Meeting Laser Science XXII (OSA), 2006, Rochester (USA), in Proc. Of Frontiers in Optics 2006 paper FTuP5
- 69) „160 Gbit/s All-Optical OOK to DPSK In-Line Format Conversion“, C. Schmidt-Langhorst, R. Ludwig, M. Galili, B. Huettl, F. Futami, S. Watanabe and C. Schubert, Proc. 32nd European Conference on Optical Communications (ECOC 2006), Cannes (France) Vol. 6, pp. 37-38, postdeadline paper Th4.3.5
- 70) „Compression limit by third-order dispersion in the normal dispersion regime“, A. Demircan, M. Kroh, U. Bandelow, B. Hüttl and H. G. Weber, IEEE Phot. Tech. Lett., Vol. 18, No. 22, (2006), pp. 2353-2355
- 71) „Monolithic 40-GHz Mode-Locked MQW DBR Lasers for High-Speed Optical Communication Systems“, R. Kaiser, B. Hüttl, IEEE J. Sel. Topics in Quantum Electr., Vol. 13, No. 1, (2007), pp. 312-320
- 72) „320 Gbit/s DQPSK All-Optical Wavelength Conversion using Four Wave Mixing“, M. Galili, B. Hüttl, C. Schmidt-Langhorst, A. Gual, R. Ludwig and C. Schubert, Proc. Optical Fiber Communication Conference (OFC 2007) and National Fiber Optic Engineers Conference (OFC 2007), Paper OTu13
- 73) „All-Optical Combination of DPSK and OOK to 160 Gbit/s DQPSK Data Signals“, M. Galili, B. Hüttl, C. Schmidt-Langhorst, R. Ludwig, F. Futami, S. Watanabe and C. Schubert, Proc. Optical Fiber Communication Conference (OFC 2007) and National Fiber Optic Engineers Conference (NFOEC 2007), Paper OTh5
- 74) „320 Gbit/s DQPSK All-Optical Wavelength Conversion based on LiNbO₃ Crystals“, B. Hüttl, A. Gual R. Ludwig, W. Suche, W. Sohler, C Schmidt-Langhorst, H.G. Weber and C. Schubert, Proc. Conference of Laser and Electro-optics (CLEO 2007) Baltimore (USA), paper CThF1 (2007)
- 75) „Ultrafast Optical Transmission Technologies“, R. Ludwig, C. Schmidt-Langhorst, C. Schubert, B. Hüttl and H.-G. Weber, Proc. Conference on Lasers and Electro-Optics / International Quantum Electronics Conference 2007 (CLEO Europe / IQEC 2007), München, paper# OTu 231
- 76) „InP-based Monolithic Mode-Locked 40 GHz Lasers for High-Speed Transmission Systems Utilizing Phase Modulation Formats“, R. Kaiser, B. Hüttl, Proc. of the 9th International Conference on Transparent Optical Networks (ICTON 2007), Rome (Italy), p. 117
- 77) „Optimization of SBS-Suppression for 320 Gbit/s DQPSK All-Optical Wavelength Conversion“, B. Hüttl, A. Gual i Coca, R. Elschner, Ch.-A. Bunge, K. Petermann, C. Schmidt-Langhorst, R. Ludwig, and C. Schubert, Proc. of European Conference on Optical Communication 2007 (ECOC 2007), Berlin, paper 4.5.5
- 78) „Generation of new Frequencies by Pulse Splitting“ A. Demircan, M. Kroh, B. Hüttl, U. Bandelow, Proc. of European Conference on Optical Communication 2007 (ECOC 2007), Berlin, paper P023
- 79) „Monolithic Mode-Locked 40/43/53 GHz MQW DBR Lasers for Applications of Phase Encoding Modulation Formats“, R. Kaiser, B. Hüttl, W. Rehbein, S. Fidorra , A. Steffan, European Semiconductor Laser Workshop 2007 (ESLW 2007), Berlin
- 80) „100 Gb/s ETDM Receivers“, R. Ludwig, C. Schubert, B. Huettl, C. Schmidt-Langhorst, R. H. Derksen and M. Möller, Proc. 20th Annual Meeting of the IEEE Lasers and Electro-Optics Society 2007 (LEOS Annual 2007), Lake Buena Vista (USA), invited paper
- 81) „320 Gbit/s DQPSK All-Optical Wavelength Conversion based on Four-Wave Mixing in Highly Nonlinear Fibers“, B. Hüttl, 2nd Sino-German Symposium on Optical Communication Networks (SOCN), September 11-16, 2007, Berlin (DE), talk Fr2
- 82) „All-Optical Wavelength Converter Concepts for High Data Rate D(Q)PSK Transmission“, B. Hüttl, R. Elschner, H. Suche, A. Gual i Coca, Ch.-A. Bunge, C. Schmidt-Langhorst, R. Ludwig, R. Nouroozi, H.G. Weber, K. Petermann, W. Sohler, and C. Schubert, Proc. of Asia-Pacific Optical Communications Conference 2007 (APOC 2007), Wuhan (China), paper 6783-77
- 83) „40 GHz monolithically integrated semiconductor mode-locked laser based on InP for application in high speed transmission systems“, R. Kaiser, B. Hüttl, W. Rehbein, S. Fidorra, C. Schubert and H. Heidrich, Workshop "Nonlinear Dynamics in Semiconductor Lasers", November 19 - 21, 2007, Weierstraß Institute Berlin, invited paper
- 84) „Impact of Pump-Phase Modulation on FWM-Based Wavelength Conversion of D(Q)PSK Signals“, R. Elschner, C.-A. Bunge, B. Hüttl, A. Gual i Coca, C. Schmidt-Langhorst, R. Ludwig, C. Schubert, K. Petermann, accepted by Journal of Selected Topics of Quantum Electronics, Special Issue “Nonlinear Optical Signal Processing” for 2008

- 85) "All-optical Amplitude Noise Suppression of 107 Gb/s DPSK Signals Using a Parametric Fiber Switch in a 320 km transmission experiment", R. Ludwig, F. Futami, B. Huettl, C. Schmidt-Langhorst, R. Okabe, S. Watanabe and C. Schubert, presented at Optical Fiber Communication Conference (OFC 2008) and National Fiber Optic Engineers Conference (NFOEC 2008), San Diego (USA), post-deadline paper OWS5
- 86) "107 Gb/s RZ-DPSK Transmission over 320 km Dispersion-managed Fiber with Balanced Detection ETDM Integrated Receiver", R. Ludwig, B. Huettl, H. Hu, C. Schmidt-Langhorst and C. Schubert, presented at Optical Fiber Communication Conference (OFC 2008) and National Fiber Optic Engineers Conference (NFOEC 2008), San Diego (USA), paper OWJ6
- 87) "Linewidth Investigation of Monolithically Integrated 40 GHz Mode-Locked Laser Diodes for High-Speed RZ-DQPSK Transmission", B. Hüttl, H. Hu, R. Ludwig, R. Kaiser, C. Schmidt-Langhorst, A. Steffan and C. Schubert, Proc. 34th European Conference on Optical Communication (ECOC), September 16-20, 2008, Brussels (Belgien), paper Th.1.C.7
- 88) "Performance of 40 Gbit/s DPSK Demodulator in SOI-Technology", K. Voigt, L. Zimmermann, G. Winzer, T. Mitze, J. Bruns, K. Petermann, B. Hüttl, C. Schubert, *EEE Photon. Technol. Lett.* Vol. 20, No. 8 (2008), pp. 614-616
- 89) "InP Waveguide-integrated pin-Photodiode Hybrid Packaged with an HBT-DEMUX-Chip for Receiver Modules of 80-100 Gb/s Data Rates", G.G. Mekonnen, B. Huettl, H.-G. Bach, D. Pech, T. Rosin, C. Schubert, A. Konczykowska, F. Jorge and M. Riet, Proc. 34th European Conference on Optical Communication (ECOC), September 21-25, 2008, Brussels (Belgien), paper We.1.C.5
- 90) "Polarization insensitive all-optical wavelength conversion of 320 Gb/s RZ-DQPSK signals", H. Hu, H. Suche, R. Ludwig, B. Hüttl, C. Schmidt-Langhorst, R. Nouroozi, W. Sohler and C. Schubert, Proc. Optical Fiber Communication Conference (OFC 2009), 22-26 March 2009, San Diego, California (USA)
- 91) "Polarization-insensitive all-optical wavelength conversion of 320 Gb/s RZ-DQPSK signals using a Ti:PPLN waveguide" H. Hu, R. Nouroozi, R. Ludwig, B. Huettl, C. Schmidt-Langhorst, H. Suche, W. Sohler, and C. Schubert. *Appl. Phys. B* 101, No. 4 (2010), pp. 875-882
- 92) "2D-Analysis of Thin-Film Modules" A. Schulze, B. Hüttl, B. Hund, T. Patzlaff, S. Neubert; Proc. of 25th European Photovoltaic Solar Energy Conference and Exhibition (PVSEC), 6-10 September 2010, Valencia (Spanien), 3BV.2.124
- 93) "Simultaneous Polarization Insensitive Wavelength Conversion of 80 Gb/s RZ-DQPSK Signal and 40 Gb/s RZ-OOK Signal in a Ti:PPLN Waveguide", H. Hu, R. Nouroozi, R. Ludwig, B. Huettl, C. Schmidt-Langhorst, H. Suche, W. Sohler and C. Schubert, *J. Lightwave Techn.* Vol. 29, (2011), pp. 1092-1097
- 94) "Improved JV-Analysis of CdTe Dot Cells by Controlled Series Resistance", B. Hüttl, J.P. Heimfarth, A. Schulze, St. Schelhase, M. Hafemeister, U. Weiler, F. Becker; Proc. of 27th European Photovoltaic Solar Energy Conference and Exhibition (PVSEC), 24-28 September 2012, Frankfurt/M, 3DV.3.10
- 95) "Concept for Fast and Precise PV Module Outdoor Characterization", D. Kaiser, M. Simmler, M. Wachter, T. Faber, F. Becker, M. Sayala, T. Kaden#, A. Schulze, B. Hüttl; Proc. of 31th European Photovoltaic Solar Energy Conference and Exhibition (PVSEC), 14-18 September 2015, Hamburg, 5AV.6.10
- 96) "Short Circuit Current Measurements at Clear-Sky Conditions on Photovoltaic Modules: Basic for a Reliable Self-Reference Algorithm", M. Wachter, L. Gottschalk, M. Simmler, F. Becker, M. Sayala, A. Schulze, B. Hüttl; Proc. of 32nd European Photovoltaic Solar Energy Conference and Exhibition (PVSEC), 20-24 June 2016, Munich, 5BV.4.16
- 97) "Accurate Measurement of Short Circuit Current at Clear-Sky Conditions: Prerequisite for a Reliable Outdoor Characterization of Photovoltaic Module", L. Gottschalk, M. Wachter, M. Simmler, G. Woidich, A. Schulze, B. Hüttl; Proc. of 8th International Workshop – Novel Developments and Applications in Sensor and Actuator Technology" September 2016, Coburg
- 98) „Self-Reference Algorithm for Precise Outdoor Analysis of PV Modules” B. Hüttl; L. Gottschalk, M. Wachter A. Schulze, F. Becker, Proc. of PV Days 2016, September 2016, Halle, www.pv-days.com/pv-days-event-archive
- 99) "Evaluation of a Comprehensive I-V Outdoor-Characterization Method for Photovoltaic Modules", L. Gottschalk, A. Schulze, F. Becker, M. Queck, B. Hüttl; Proc. of 33rd European Photovoltaic Solar Energy Conference and Exhibition (PVSEC), 25-29 September 2017, Amsterdam, 5BV.4.10