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Dr. Dirk G. Ebling

## Liste der Publikationen

- 1 M.M. Lohrengel, D. Ebling, "Computergestützte Messungen zur Untersuchung der Oxidbildungskinetik in kurzen Zeiten", Dechema Monographien 117 ( 1989) 221 ,
- 2 D. Ebling, M.M. Lohrengel, A. Meyer, A. Thyssen, "Untersuchungen an oxidischen und organischen Deckschichten mit der elektrochemischen Quarz-Microwaage (EQMW) ", Dechema Monographien 117 (1989) 443,
- 3 M.M. Lohrengel, D. Ebling, "Current Transients of Potentiostatic Pulse Measurements" Dechema Monographien 120 ( 1989) 213,
- 4 D. Ebling, J.W. Schultze, "Galvanische Behandlung von Aluminiumoberflächen für photoelektrische Anwendungen", Metallocerfläche 44 (1990) 10,
- 5 D.G. Ebling, „Elektronische und ionische Prozesse in Sub-Mikronstrukturen und deren Präparation im System Al<sub>2</sub>O<sub>3</sub>“ Dissertation Universität Düsseldorf, 1991
- 6 C. Eiche, M. Fiederle, J. Weese, D. Maier, O. Ebling, K.W. Benz, "Investigation of Deep Levels in X-Ray Detector Material with Photo induced Current Spectroscopy (PICTS) ", Mat. Res. Soc. Symp. Proc. 302 (1993) 231,
- 7 C. Eiche, M. Fiederle, J. Weese, D. Maier, D. Ebling, J. Ludwig, K.W. Benz., "Analysis o/ Deep Levels in GaAs Detector Diodes Using Impedance Spectroscopy", Mat. Res. Soc. Symp. Proc. 302 (1993) 375,
- 8 D. Ebling, J. Heinze, "Marktübersicht Elektrochemie //", Nachr. Chem. Tech. Lab. 41 (1993) Nr.9,
- 9 D. Ebling, K.W. Benz., M. Berroth, J. Henning, J. Ludwig, K. Runge, "Halbleiter für die Rontgendiagnostilc ", FMF-Report 1993,
- 10 K. Borgwarth, D.G. Ebling, J. Heinze, "Scanning Electrochemical Microscopy: A New Scanning Mode Based on Convective Effects", Berichte der Bunsengesellschaft für Physikalische Chemie, 98, 1317 (1994),
- 11 M. Fiederle, D. Ebling, C. Eiche, D. M. Hofmann, M. Salk, W. Stadler, K.W. Benz, B.K. Meyer, "Comparism of CdTe, Cd0.9Zn0.1Te and CdTe0.9Se0.1, Crystals: Application for UV- and X-ray Detectors", J. Crystal Growth 138 (1994) 529
- 12 J.W. Chen, D.G. Ebling, M. Fiederle, T. Frömmichen, P. Hug, J. Ludwig, M. Kohler, T. Plötze, M. Rogalla, K. Runge, "Evaluation of Active Layer Properties and Charge Collection Efficiency for GaAs-Particle Detectors", Nuclear Instruments and Methods in Physics Research A365 (1995) 273,
- 13 B.R. Serr, G. Heckert, H.W. Rotter, G. Thiele, D. Ebling, "Structural and Spectroscopic Studies on Trimorphous (MeNH<sub>4</sub>)GeCl<sub>4</sub>", Journal of Molecular Structure 348 (1995) 95,
- 14 K. Borgwarth, D. Ebling, J. Heinze, "Applications of Scanning Ultra Micro Electrodes for Studies on Surface Conductivity", Electrochimica Acta, 40 (1995) J 455,
- 15 C. Ricken, K. Borgwarth, D.G. Ebling, J. Heinze, "SECM. Das Raster-elektrochemische Mikroskop", Labo-Trend 6/1995. Verlag Hoppenstedt, Darmstadt,

- 16 K. Borgwarth, C. Ricken, D.G. Ebling, J. Heinze, "Surface characterisation and modification by the scanning electrochemical microscope (SECM)", Berichte der Bunsengesellschaft für Physikalische Chemie 99 (1995) 1421,
- 17 C. Ricken, K. Borgwahn, D.G. Ebling, J. Heinze, "Das Rasterelektrochemische Mikroskop (SECM) ", GIT Fachzeitschrift für das Laboratorium, 8/1995.GIT-Verlag, Darmstadt.
- 18 D. Maier, P. Hug, M. Fiederle, C. Eiche, D. Ebling, J. Weese, "A high resolution method for the analysis of admittance spectroscopy data". J. Appl. Phys. 77(8) (1995) 3851,
- 19 C. Eiche, W. Joerger, M. Fiederle, D. Ebling, R.Schwarz, K.W. Benz, "Characterization of Ti and V doped CdTe by Time Dependent Charge Measurement (TDCM} and Photoinduced Current Transient Spectroscopy (PICTS)", Optical Materials, 4 (1995) 2 J 4,
- 20 C. Eiche, W. Joerger, M. Fiederle, D. Ebling, R. Schwarz, K.W. Benz, "Investigation of CdTe:Cl grown from the vapour phase under microgravity conditions with Time Dependent Charge Measurements (IDCM) and Photoinduced Current Transient Spectroscopy (PICTS)", J. Cryst. Growth 146 (1995) 98,
- 21 M. Fiederle, D. Ebling, C. Eiche, P. Hug, W. Joerger, M. Laasch, R. Schwarz. M. Salk, K. W. Benz, "Studies of the compensation mechanism in CdTe grown from the vapor phase", J. Crystal Growth 146 (1995) 142,
- 22 D.G. Ebling, C. Eiche, M. Fiederle, M. Salk. R. Schwarz, W. Joerger, P. Hug, K.W. Benz, "Resistivity and deep level investigations of detector grade CdTe: A comparison of different growth techniques", Proc. SPIE-Im. Soc. Opt. Eng. ( 1995), 2519, 127,
- 23 C. Eiche, R. Schwarz, W. Joerger, M. Fiederle, D.G. Ebling, K.W. Benz, "Nondestructive characterization of Ti doped and V doped CdTe by time Dependent Charge Measurements (IIXM) ", Proc. SPIE-Int. Soc. Opt. Eng. (1995), 2554,
- 24 C. Eiche, W. Joerger, M. Fiederle, D. Ebling, M. Salk, R. Schwarz, K.W. Benz, "Characterization of CdTe:Cl crystals grown under microgravity conditions by Time Dependent Charge Measurements (IDCM)", J. Crystal Growth 166, 245; 1996.
- 25 M. Fiederle, P. Ganter, C. Eiche. M. Salk, A.S. Senchenkov, A.V. Egorov, D.G. Ebling, K.W. Benz, "Radiation detector properties of CdTe crystals grown under microgravity in a rotating magnetic field", J. Crystal Growth 166, 256; 1996,
- 26 M. Fiederle, M. Rogalla, C. Joerger, M. Salk, D.G. Ebling, J. Ludwig, K. Runge and K.W. Benz, "Characterization of CdTe0.rBe0 1:C/ Strip Detectors", Nucl. Inst. a. Meth. A 380 153-156 (1996) ,
- 27 M. Rogalla. M. Kienzle, R. Irsiegler, J. Ludwig. K. Runge, K.W. Benz, D.G. Ebling, M. Fiederle, X. Liu, J. Krueger, E.R. Weber. „Influence of the compensation in semi-insulating GaAs on the particle detector performance" , Proc. SIMC-9 Toulouse (IEEE),(1996)
- 28 J.W. Chen, D.G. Ebling, G. Geppert, R. Göppert, R. Irsigler, C. Jörger, K. Klaas, J. Ludwig, M. Rogalla. K. Runge, Th. Schmid, C. Da Via, M. Webel, C. Weber, "Characterization of Interface States and Deep Levels by Impedance Measurements in Undoped Semi-Insulating GaAs ", Proceedings of the 3. Int. Workshop on GaAs and Related Compounds, San Miniato 1995, ed. P.G.Pelfer, J.Ludwig, K. Runge, H.S.Rupprecht, World Scientific Publishing, Singapore, New Jersey, London, Hongkong, ( 1996), 84,
- 29 M. Rogalla, M. Fiederte, R. Irsigler, T. Froemmichen, J.W. Chen, D.G. Ebling, P. Hug, K. Runge, S. Luxtermann, J. Ludwig, Th. Schmid, R. Geppert, S. Joost, "Characterization of SI-GaAs Bulk Material for Detector", Proceedings of the 3. Int. Workshop on GaAs and Related Compounds, San Miniato 1995, ed. P.G. Pelfer, J.

- Ludwig, K. Runge, H.S. Rupprecht, World Scientific Publishing, Singapore, New Jersey, London, Hongkong. ( 1996).69,
- 30 A. Wehrstein, D.G. Ebling, M. Fiederle, V. Krämer, "Growth and Characterisation of AgGaTe Single-Crystals", Crys. Res. Technol. 31 (1996) 45,
- 31 K. Borgwarth, C. Ricken, D.G. Ebling, J. Heinze, „Surface Analysis by Scanning Electrochemical Microscopy: Resolution Studies and Applications to Polymer Samples", Fresenius J. Anal. Chem. 356 (1996) 288;
- 32 J.W. Chen, D.G. Ebling, R. Geppert, R. Irsiegler, Th. Schmid, M. Rogalla, J. Ludwig, K. Runge, „Investigation of the compensation mechanism in semi-insulating GaAs from alpha-spectra studies at low temperature", Appl. Phys. Lett. 70, 2693 (1997),
- 33 C. Heß, K. Borgwahn, C. Ricken, D.G. Ebliog, J. Heinze, „Scanning Electrochemica/Microscopy: Study of silver deposition on non-conducting substrates", Electrochimica Acta 42, 3065 ( 1997),
- 34 M. Schuler, D. Siebert, D.G. Ebling, „EPR of Fe-57(3+) and Conductivity in RuS<sub>2</sub>", Appl. Phys. A 64, 203, (1997),
- 35 L. Winterhalter, D.G. Ebling, D. Maier, J. Honerkamp, „An improved Analysis of Admittance Data for High Resistivity Materials by a Nonlinear Regularization Method", J. Appl. Phys. 82, 5488, (1997).
- 36 H. Meincke, D.G. Ebling, J. Heinze, M. Tacke, H. Böttner, "Potentiostatic Oxide Formation on Lead Selenide Single Crystals in Alkaline Solution", J. electrochem. Soc. 145 (1998) 2806,
- 37 H. Meincke, D.G. Ebling, J. Heinze, M. Tacke, H. Böttner, „Potentiodynamic oxidation of lead selenide surfaces in aqueous solutions", Compound Semiconductor Power Transistors and State-of- the-Art Program on Compound Semiconductors (SOTAPOCS XXIX) Editors: Ren, F.; Buckley, D.N.; Chu, S.N.G.; Zolper, J.C.; Abernathy, C.R.; Pearton, S.J.; Parsey, J.M., Jr. Pennington, NJ, USA: Electroch . Soc, (1998) 172,
- 38 K. Kornitzer, W. Limmer, K. Thonke, R. Sauer, D.G. Ebling, L. Steinke, K.W. Benz „Optical properties of AlN films grown on Sapphire and on SiC: CL and Raman study", J. Crystal Growth 201-202 (1999) 441,
- 39 D.G. Ebling, M. Rattunde, L. Steinke, K.W. Benz, A. Winnacker, „MBE of AlN and GaN on SiC and Influence of Structural substrate defects on Epitaxial Growth", J. Crystal Growth 201-202 (1999) 411,
- 40 J. Winterhalter , D.G. Ebling, D. Maier, J. Honerkamp, „Analysis of admittance data: comparison of a parametric and a nonparametric method", J. Computational Physics 153 (1999) 139,
- 41 H. Meincke, D.G. Ebling, J. Heinze, M. Tacke, H. Böttner, „A photoelectrochemical study of anodic oxides on lead selenide surfaces in alkaline solutions ", Fres. J. Anal. Chem. 365 (1999) 147,
- 42 A. Link, K. Bitzer, W. Limmer, R. Sauer, C. Kirchner, V. Schwegler. M. Kamp, D.G. Ebling, K.W. Benz, „ Temperature dependence of the E2 and Al(LO) phonons in GaN and AlN", J. Appl. Phys. 86 (1999)6256,
- 43 D.G. Ebling, H . Meincke, J. Heinze. „Application of impedance technique to characterize anodic oxides on PbSe surfaces "State-of-the-Art Program on Compound Semiconductors (SOTAPOCS XXXI) Editors: Buckley, D.N.; Ren, F.; Chu, S.N.G.; Zolper, J.C.; Abernathy, C.R .; Pearton, S.J.; Parsey, J.M., Jr. Pennington , NJ, USA: Electroch. Soc, (1999) 79,

- 44 P. Cristea, D.G. Ebling, K.W. Benz, "Titanium doping of GaSb MBE-layers" Inst. Phys. Conf. Ser. 166 (2000) 67,
- 45 D.G. Ebling, L. Kirste, M. Rattunde, J. Portmann, R. Brenn, K.W. Benz, K. Tillmann. "Analysis of dislocation densities and nanopipe formation in MBE-grown AlN-layers" Mat. Sci. For. 338-342 (2000) 1549,
- 46 N. Teofilov, K. Thonke, R. Sauer, D.G. Ebling, L. Kirste, K.W. Benz „Resolved band-edge luminescence of AlN on different substrates", Proceedings of International Workshop on Nitride Semiconductors: (2000) 174-7.
- 47 L. Kirste, D.G. Ebling, Ch. Haug, R. Brenn, K.W. Benz, K. Tillmann, "Structural quality and ordering of MBE grown Al<sub>x</sub>Ga<sub>1-x</sub>N layers ", Proc. of the International Conference on Electronic Materials & E-MRS Spring Meeting "E-MRS - IUMRS - ICEM 2000". Strasbourg. France, May 30 - June 2.
- 48 N. Teofilov, K. Thonke, R. Sauer, D.G. Ebling, L. Kirste, K.W. Benz, "Resolved hand-edge luminescence of AlN on different substrates ", Proceedings of International Workshop on Nitride Semiconductors (2000) 174-7.
- 49 D.G. Ebling, L. Kirste, K.W. Benz, N. Teofilov, K. Thonke, R. Sauer, "Optical properties and ordering of Al<sub>x</sub>Ga<sub>1-x</sub>N MBE-layers", J. Crystal Growth 227-228 (2001) 453-7
- 50 N. Teofilov, K. Komitzer, K. Thonke, R. Sauer, D.G. Ebling, L. Kirste, K.W. Benz. "Near Band- edge transitions in AlN thin films grown on different type substrates ", Diamond and Related Materials vol.10, no.3-7 (2001) 1300-3
- 51 D. Hofmann, M. Bickermann, D. Ebling, B. Epelbaum, L. Kadinski, M. Selder, T. Straubinger, R. Weingaertner, P. Wellmann, A. Winnacker, "SiC crystal growth from the vapor and liquid phase", Silicon Carbide Materials, Processing and Devices. Symposium, Materials Research Society Symposium Proceedings Vol.640 (2001) H 1.1-I-4 edited by Agarwal A., Skowronski M., Cooper J.A. Jr., Janzen E.
- 52 P. Cristea, D.G. Ebling, K.W. Benz, "Growth of GaN:Sb MBE-Layers", MRS Fall Meeting Online Proceedings 13.28 (2001).
- 53 N. Teofilov, K. Thonke, R. Sauer, L. Kirste, D.G. Ebling, K.W. Benz, "Optical investigation of Al<sub>x</sub>Ga<sub>1-x</sub>N epitaxial films grown on AlN buffer layers", Diamond and Related Materials vol.11, no.3-6 (2002) 892-5.
- 54 L. Krainer, D. Nodop, G. J. Spühler, S. Lecomte, M. Golling, R. Paschotta, D. Ebling, T. Ohgoh, T. Hayakawa, K. J. Weingarten, U. Keller, "Compact 10-GHz Nd:GdVO<sub>3</sub> laser with 0.5 W average output power and low timing jitter ", Optics Letters 29 (2004) 2629-2631 ,
- 55 S. Lecomte, R. Paschotta, M. Golling, D. Ebling, U. Keller, "Synchronously pumped optical parametric oscillators in the 1.5-μm spectral region with a repetition rate of 10 GHz", J. Opt. Soc. Am. B 21 (2004) 844-850,
- 56 D. Lorenser, H. J. Unold, D. J. H. C. Maas, A. Aschwanden, R. Orange, R. Paschotta, D. Ebling, E. Gini, U. Keller, "Towards wafer-scale integration of high repetition rate passively mode-locked surface-emitting semiconductor lasers ", Appl. Phys. B 79 (2004) 927-932,
- 57 S. C. Zeller, L. Krainer, G. J. Spühler, R. Paschotta, M. Golling, D. Ebling, K. J. Weingarten, U. Keller, "Passively mode-locked 50-GHz Er: Yb:glass laser", Electronics Letters 40 (2004) 875-876,
- 58 S. Lecomte, M. Kalisch, L. Krainer, G. J. Spühler, R. Paschotta, M. Golling, D. Ebling, T. Ohgoh, T. Hayakawa, S. Pawlik, B. Schmidt, U. Keller, „Diode-pumped passively mode-locked Nd: YVO<sub>3</sub> lasers with 40-GHz repetition rate" IEEE Journal of Quantum

- Electronics 41, (2005) 45-52
- 59 A. Schlatter, L. Krainer, M. Golling, R. Paschotta, D. Ebling, and U. Keller, Passively mode-locked 914-nm Nd: YVO<sub>4</sub> laser, Optics Letters 30(14) 2005 4 (2005)
- 60 D. Lorenser, H. J. Unold, D. J. H. C. Maas, A. Aschwanden, R. Grange, R. Paschotta, D. Ebling, E. Gini, and U. Keller, Towards wafer-scale integration of high repetition rate passively mode-locked surface-emitting semiconductor lasers, Appl. Phys. B Vol. 1-31393 (2005)
- 61 H. J. Unold, D. Lorenser, D. J. Maas, B. Rudin, A.-R. Bellancourt, U. Keller, E. Gini, D. Ebliog 50-GHz Mode-Locked VECSELs: An Integrable Alternative to High-Repetition-Rate Solid-State Lasers, to appear in Electronics Letters (2006)
- 62 D. Lorenser, D. J. H. C. Maas, H. J. Unold, A.-R. Bellancourt, B. Rudin, E. Gini, D. Ebling, and U. Keller, 50-GHz Passively Mode-Locked Surface-Emitting Semiconductor Laser with 100 mW Average Output Power, IEEE Journal of Quantum Electronics 42(7-8) (2006)
- 63 Rudin, B.; Maas, D.; Lorenser, D.; Bellancourt, A.-R.; Unold, H.J.; Keller, U.; Gini, E.; Ebling, D High-performance mode-locking with up to 50 GHz repetition rate from integrable VECSELs, 2006 Conference on Lasers & Electro-Optics/Quantum Electronics and Laser Science Conference (CLEO/QELS) pp.20060
- 64 Freitag, R; Thonke, K; Sauer, R; Ebling, DG; Steinke, L, Time-resolved Spectroscopy of the violet Luminescence of undoped AlN, MRS INTERNET JOURNAL OF NITRIDE SEMICONDUCTOR RESEARCH 103(2005) WOS:000232646500001 1092-5783
- 65 Oprea, A; Barsan, N; Weimar, U; Bauersfeld, ML; Ebling, D; Wollenstein, J, Capacitive humidity sensors on flexible RFID labels, SENSORS AND ACTUATORS B-CHEMICAL 132(2008) 404-410 WOS:000224044102008 2 (2007) Lyon,
- 66 D.G. Ebling, A. Jacquot, J. König, M. Jägle, H. Böttner, Uta Kühn, J. Schmidt, "Melt spinning preparation of Bismuth Telluride and partially alloying with IV-VI compounds for thermoelectric application", Proc 26th Int. Conf. on Thermoelectrics, Jeju, Korea, June 2007
- 67 D.G. Ebling, A. Jacquot, J. König, H. Böttner, J. Schmidt, P. Spies, "Sparc plasma sintered Bismuth Telluride for the fabrication of thermoelectric devices, Proceedings of the 26th International Conference on Thermoelectrics, Jeju, Korea, June 2007
- 68 D.G. Ebling, A. Jacquot, J. König, H. Böttner, J. Schmidt, P. Spies, "SPS for the fabrication of thermoelectric devices from Bismuth Telluride compounds" Thermopower Symposium CH, Novel Thermoelectric Materials and Applications, May 15, 2007, at Forum Chriesbach, Empa Dübendorf,
- 69 A. Jacquot, M. Jägle, J. König, D.G. Ebling, H. Böttner, "Theoretical study of the Harman-Method for evaluating the thermoelectric performance of materials and components at high temperature", Proceedings of the 26th International Conference on Thermoelectrics, Jeju, Korea, June 2007
- 70 H. Böttner, D.G. Ebling, A. Jacquot, Uta Kühn, J. Schmidt, "Melt spinning preparation of Bismuth Telluride and partially alloying with IV-VI compounds for thermoelectric application", Proceedings of the 5th European Conference on Thermoelectrics, ECT2007 in Odessa, Ukraine
- 71 A. Jacquot, M. Jägle, J. König, D.G. Ebling, H. Böttner, "Theoretical study of the Harman method and key features of an experimental setup for evaluating the performance of thermoelectric materials and components at high temperature", Proceedings of the 5th European Conference on Thermoelectrics, ECT2007 in Odessa, Ukraine
- 72 H. Böttner, D. Ebling, J. Nurnus, A. Schubert, F. Volkert, „Mikrostrukturierte Dünnschicht-

- Thermogeneratoren mit hoher Flächendichte an Thermopaaren für energieautarke Sensorsysteme", VDI/VDE Mikrosystemtechnik Kongress 2007 in Dresden,
- 73 H. Böttner, D.G. Ebling, H. Kölbel, A. Schubert, A. Gavrikov, A. Mahlke, J. Nurnus, Formation of nanometerscale layers of V-VI (Bi<sub>2</sub>Te<sub>3</sub>-related) compounds based on amorphous precursors, Proc. Estonian Acad. of Sci. Eng. 13, 4, 354-363 (2007),
- 74 H. Böttner, D. Ebling, A. Jacquot, J. König, L. Kirste, J. Schmidt, Structural and mechanical properties of spark plasma sintered n- and p-type bismuth telluride alloys, phys. stat. sol. (RRL) 1, No 6, 235-237(2007),
- 75 D. Ebling, A. Jacquot, M. Jägle, H. Böttner, U. Kühn, L. Kirste, Structure and thermoelectric properties of Nanocomposite Bismuth Telluride prepared by Melt spinning or partially alloying with IV-VI compounds, phys. stat. sol. (RRL) 1, No. 6, 238-240 (2007),
- 76 Boettner, H; Ebling, D; Jacquot, A; Kuhn, U; Schmidt, J, Melt spinning preparation of bismuth telluride and partially alloying with IV-VI compounds for thermoelectric application, THERMO ELECTRICPOWER GENERATION 104411512020080WOS:0002583995000, 168th Symposium on Themoelectric Power Generation held 2007 MRS Fall Meeting Boston, MA NOV 26-29, (2007),
- 77 Ebling, DG; Jacquot, A; Bonner, H; Schmidt, J; Spies, P, Development of thermoelectrical generators in the maintenance of energy self-sufficient sensors , SENSORSAND MEASUREMENT SYSTEMS 2008201 I 56957820080WOS:00026767890006014th Expert Meeting on Sensors and Measurement Systems MA R 11-12, 2008 Ludwigsburg, GERMANY,
- 78 Ebling, D.G.; Jacquot, A.; Bottner, H.; Schmidt, J.; Spies, P., Nanocomposite materials: future und challenge for the production of thermoelectric devices, Seventh International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, 10733497 PowerMEMS (2007).
- 79 Oprea-A ; Barsan -N ; Weimar-V ; Bauersfeld-M-L ; Ebling-D ; Wollenstein-J, Capacitive humidity sensors on flexible RFID labels, Sensors and Actuators B (Chemical), Switzerland 10195545 (2008)
- 80 Ebling, D.G. ; Jacquot, Alexandre ; Böttner. Harald ; Schmidt, Jürgen ; Spies, Peter, „Entwicklung von thermoelektrischen Generatoren zur Versorgung energieautarker Sensoren / Development of thermoelectric generators as an electric supply for self sustaining sensors", GMA/ITG-Fachtagung, Sensoren und Messsysteme, 14 - VDI-Berichte 20080603237 (2008)
- 81 Boettner-H ; Ebling-D ; Jacquot-A ; Kuhn-U ; Schmidt-J Melt spinning preparation of bismuth telluride and partially alloying with IV-VI compounds for thermoelectric application Proc. Thermoelectric Power Generation, Boston, MA, USA, 26-29 Nov. 1051 1292 (2008)
- 82 Ebling,DG; Jacquot, A; Böttner, H; Kirste, L; Schmidt, J; Aguirre. M, Influence of Group IV-Te Alloying on Nanocomposite Structure and Thermoelectric Properties of Bi<sub>2</sub>Te<sub>3</sub> Compounds, J electr. Mat.38, 7,1450 (2009)
- 83 Ebling, D; Jaegle, M: Bartel, M; Jacquot, A; Bonner, H Multiphysics Simulation of Thermoelectric Systems for Comparison with Experimental Device Performance, J electr. Mat.38, 7, 1456 (2009)
- 84 Bartholome, K. ; Jägle, M. ; Ebling, D. ; König, J. ; Jacquot, A. ; Böttner, H.: Energieautarke Sensorik im Flugzeug, Technisches Messen :TM 77 (2010), Nr.9, S.445-451
- 85 Ebling, D. ; Bartholome, K. ; Bartel, M. ; Jägle, M.: Module geometry and contact resistance of thermoelectric generators analyzed by multiphysics simulation. (International Conference on Thermoelectrics (ICT) [28, 2009. Freiburg]) In: Journal of

Electronic Materials 39 (2010), Nr.9, S.1376- 1380

- 86 Jacquot, A. ; Farag, N. ; Jägle, M. ; Bobeth , M. ; Schmidt J. ; Ebling, D. ; Böttner, H.: Thermoelectric properties as a function of electronic band structure and microstructure of textured materials, Journal of Electronic Materials 39 (2010), Nr.9, S.1861-1868
- 87 Jacquot, A. ; Vollmer, F. ; Bayer, B. ; Jägle, M. ; Ebling, D.G. ; Böttner, H.: Thermal conductivity measurements on challenging samples by the 3 omega method, Journal of Electronic Materials 39 (2010), Nr.9.S.1621-1626
- 88 Jacquot, A., Thomas, J., Schumann, J., Jägle, M., Böttner, H. • Gemming, T., Schmidt, J., Ebling, D. (Bi,Sb)2Te3-PbTe chalcogenide alloys: Impact of the cooling rate and sintering parameters on the microstructures and thermoelectric performances, Journal of Materials Research (2011) 26: 15 (I773) DOI: 10.1557/jmr.2011.78
- 89 Harald Boettner · Dirk Ebling · Alexandre Jacquot · Uta Kühn · Jürgen Schmidt Melt Spinning Preparation of Bismuth Telluride and Partially Alloying with IV-VI Compounds for Thermoelectric Application, MRS Online Proceeding Library (2011); 1044. DOI:10.1557/PROC-1044-U04-01
- 90 D. Bessas · I. Sergueev · H.-C. Wille · J. Perßon · D. Ebling · R. P. Hermann, Lattice dynamics in Bi<sub>2</sub>Te<sub>3</sub> and Sb<sub>2</sub>Te<sub>3</sub>: Te and Sb density of phonon states, Physical review. B, Condensed matter (2012); 86(22). DOI:10.1103/PhysRevB.86.224301
- 91 R. Herbertz, R. Labs, D.G. Ebling, A. Krumm, B. Pfeiffelmann, A. Stunz, M. Roesemann, „Entwicklung eines Energiewandlers zur Rückgewinnung von Prozessenergie in der Massivumformung auf Basis von thermoelektrischen Generatoren“, Massivumformung, März 2016, 56,
- 92 D. G. Ebling, A. Krumm, B. Pfeiffelmann, J. Gottschald, J. Bruchmann, A. C. Benim, M. Adam, R. Labs, R. R. Herbertz, A. Stunz, Development of a system for thermoelectric heat recovery from stationary industrial processes, Journal of Electronic Materials 45 (7), 3433-3439 (2016),
- 93 C. Stiewe, D. Ebling, E. Müller, „Anwendungspotential thermoelektrischer Generatoren zur Abwärmenutzung in stationären Systemen“, Gefahrstoffe – Reinhaltung der Luft 77, 502 (2017).

Buchbesprechungen:

- 94 Gunther Lippert, Verunreinigungen in der Siliziummolekularstrahlepitaxie. Hansel-Hohenhausen, Egelsbach/Frankfurt/Washington . ISBN 3-8267-1056-8. Preis: DM 48,-. D.G. Ebling in Journal: Crystal Research and Technology - CRYST RES TECH .vol. 31, no. 7, pp. 880-880, 1996
- 95 B. Di Bartolo (Editor): Ultrafast Dynamics of Quantum Systems Physical Processes and Spectroscopic Techniques, D.G. Ebling in Journal: Crystal Research and Technology - CRYST RES TECH , vol. 34, no. 4, pp. 526-526, 1999
- 96 D. Greenspan: Particle Modeling, D.G. Ebling in Journal: Crystal Research and Technology - CRYST RES TECH , vol. 34, no. 2, pp. 180-180, 1999
- 97 Werner Gans and Jan C. A. Boeyens (Eds.): Intermolecular Interactions, D.G. Ebling in Journal : Crystal Research and Technology - CRYST RES TECH , vol. 34, no. 4, pp. 518-518, 1999