

*Erschienenene Publikationen*  
Published Papers

- (1) **A Terahertz High-Efficiency On-Chip Antenna**  
A.S. Abdellatif, A. Taeb, S. Safavi-Naeini, K. Schmalz  
Proc. IEEE International Symposium on Antennas and Propagation (APS 2014), 1485 (2014)
- (2) **Luminescence from Germanium and Germanium on Silicon**  
T. Arguirov, M. Kittler, M. Oehme, N.V. Abrosimov, O.F. Vyvenko, E. Kasper  
Solid State Phenomena **205-206**, 383 (2014)
- (3) **Impact of Hydrogen Surfactant Epitaxy and Annealing on Crystallinity of Epitaxial Ge<sub>1-x</sub>Sn<sub>x</sub> Layers**  
T. Asano, N. Taoka, Koya Hozaki, W. Takeuchi, M. Sakashita, O. Nakatsuka, S. Zaima  
Proc. International Conference on Solid State Devices and Materials (SSDM 2014), C83 (2014)
- (4) **Design and Measurement Techniques for 80 and 110 Gb/s 1-tap Decision Feedback Equalizers**  
A. Awny, L. Moeller, J. Junio, J.C. Scheytt, A. Thiede  
IEEE Journal of Solid State Circuits **49**(2), 1 (2014)
- (5) **Functional Spinel Oxide Heterostructures on Silicon**  
R. Bachelet, P. de Coux, B. Warot-Fonrose, V. Skumryev, G. Niu, B. Vilquin, G. Saint-Girons, F. Sanchez  
CrystEngComm **16**, 10741 (2014)
- (6) **Modeling and Characterization of BiCMOS Embedded Microfluidic Platform for Biosensing Applications**  
C. Baristiran Kaynak, M. Kaynak, M. Wietstruck, St. Marschmeyer, P. Kulse, K. Schulz, H. Silz, A. Krüger, R. Barth, K. Schmalz, B. Tillack,  
Proc. Silicon Monolithic Integrated Circuits in RF Systems (SiRF 2014- BioWireless 14), 46 (2014)
- (7) **Modeling and Design of BiCMOS Embedded Thermal Flow Rate sensor for On-Chip Microfluidics**  
C. Baristiran Kaynak, M. Kaynak, M. Wietstruck, W. Winkler, B. Tillack  
Proc. MEMSWAVE 2014, (2014)
- (8) **How Different Electrical Circuits of ECC Designs Influence the Shape of Power Traces Measured on FPGA**  
T. Basmer, Ch. Wittke, Z. Dyka, P. Langendörfer  
Cryptology ePrint Archive: Report 2014/993
- (9) **A Capacitively-Coupled CMOS-MEA with 4096 Recording Sites and 1024 Stimulation Sites**  
G. Bertotti, N. Dodel, St. Keil, D. Wolansky, B. Tillack, M. Schreiter, M. Eickenschidt, G. Zeck, A. Stett, A. Möller, K.-H. Boven, R. Thewes  
Proc. MEA Meeting 2014, 9<sup>th</sup> International Meeting on Substrate-Integrated Microelectrode Arrays, 247 (2014)
- (10) **Joint Lab Bioelectronics**  
M. Birkholz, P. Neubauer  
BioTopics, TSB Innovationsagentur Berlin GmbH/BioTOP Berlin-Brandenburg, 21 (2014)
- (11) **Modeling the Shape of Ions in Pyrite-Type Crystals**  
M. Birkholz  
Crystals **4**, 390 (2014)

- (12) **System Integration of a Silicone-Encapsulated Glucose Monitor Implant**  
M. Birkholz, P. Glogener, T. Basmer, F. Glös, D. Genschow, C. Welsch, R. Ruff, K.P. Hoffmann  
Biomedical Engineering / Zeitschrift für Biomedizinische Technik **59**, S1089 (2014)
- (13) **Movement Fluidity of the Impaired Arm during Stroke Rehabilitation**  
D. Biswas, A. Cranny, K. Maharatna, J. Achner, J. Klemke, M. Jöbges, St. Ortmann  
Proc. 2<sup>nd</sup> IEEE-EMBS International Conferences on Biomedical and Health Informatics, (2014)
- (14) **On the Sensor Choice and Data Analysis for Classification of Elementary Upper Limb Movements**  
D. Biswas, A. Cranny, A. Rahim, N. Gupta, N. Harris, K. Maharatna, St. Ortmann  
Proc. IEEE-EMBS International Conferences on Biomedical and Health Informatics, 744 (2014)
- (15) **Recognition of Elementary Upper Limb Movements in an Activity of Daily Living using Data from Wrist Mounted Accelerometers**  
D. Biswas, A. Cranny, N. Gupta, K. Maharatna, St. Ortmann  
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- (16) **On the Data Analysis for Classification of Elementary Upper Limb Movements**  
D. Biswas, A. Cranny, A.F. Rahim, N. Gupta, N. R. Harris, K. Maharatna, St. Ortmann  
Biomedical Engineering Letters **4**, 403 (2014)
- (17) **Recognition of Elementary Arm Movements Using Orientation of a Tri-axial Accelerometer Located Near the Wrist**  
D. Biswas, D. Corda, G. Baldus, A. Cranny, K. Maharatna, J. Achner, J. Klemke, M. Jöbges, St. Ortmann  
Physiological Measurement **35**, 1751 (2014)
- (18) **Ring Waveguides for Gigahertz Acoustic Waves on Silicon**  
P. Boucher, S. Rauwerdink, A. Tahraoui, Ch. Wenger, Y. Yamamoto, P.V. Santos  
Applied Physics Letters **105**, 161904 (2014)
- (19) **ACEMIND: The Smart Integrated Home Network**  
O. Bouchet, J.P. Javaudin, A. Kortebi, H.E. Abdellaouy, M. Brzozowski, D. Katsianis, C. Mayer, H. Guan, M. LeBouc, F. Fontaine, F. Couque, P. Jaffre, A. Mengi, P. Celeda, B.G. Aytakin, F. Kurt  
Proc. International Conference on Intelligent Environments (IE), (2014)
- (20) **Multi-Channel Support for Preamble Sampling MAC Protocols in Sensor Networks**  
M. Brzozowski, P. Langendörfer  
Proc. of the 11<sup>th</sup> International Symposium on Wireless Communication Systems (2014)
- (21) **Multi-Channel Support for Preamble Sampling MAC Protocols in Sensor Networks**  
M. Brzozowski, P. Langendörfer  
Proc. 22<sup>nd</sup> International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2014), (2014)

- (22) **Determination of the Free Carrier Concentration in Atomic-Layer Doped Germanium Thin Films by Infrared Spectroscopy**  
E. Calandrini, M. Ortolani, A. Nucara, G. Capellini, M. De Seta, L. Di Gaspare, D. Sabbagh, M. Virgilio, G. Scappucci, M.Y. Simmons, W.M. Klesse, L. Baldassarre  
Journal of Optics **16**, 094010 (2014)
- (23) **Engineering of the Chemical Reactivity of the Ti/HfO<sub>2</sub> Interface for RRAM: Experiment and Theory**  
P. Calka, M. Sowinska, T. Bertaud, D. Walczyk, J. Dabrowski, P. Zaumseil, Ch. Walczyk, A. Gloskovskii, X. Cartoixà, J. Suñé, T. Schroeder  
Applied Materials and Interfaces **6**, 5056 (2014)
- (24) **Alternative High n-Type Doping Techniques in Germanium**  
G. Capellini, G. Scappucci, W.M. Klesse, G. Mattoni, M.Y. Simmons  
ECS Transactions **64**(11), 163 (2014)
- (25) **CMOS-Fabricated Tensile Ge Microstructures: Towards an Edge-Emitting Laser**  
G. Capellini, Ch. Reich, S. Guha, Y. Yamamoto, St. Lischke, J. Kreissl, L. Zimmermann, M. Virgilio, A. Ghrib, M. El Kurdi, P. Boucaud, B. Tillack, T. Schroeder  
Proc. 7<sup>th</sup> International Silicon-Germanium Technology and Device Meeting (ISTDM 2014), abstr. 163 (2014), Singapore
- (26) **Tensile Ge Microstructure for Lasing Fabricated by Means of a Silicon Complementary Metal-Oxide-Semiconductor Process**  
G. Capellini, Ch. Reich, S. Guha, Y. Yamamoto, M. Lisker, M. Virgilio, A. Ghrib, M. El Kurdi, P. Boucaud, B. Tillack, T. Schroeder  
Optics Express **22**, 399 (2014)
- (27) **Imaging of Strain and Lattice Orientation by Quick Scanning X-Ray Microscopy Combined with 3D Reciprocal Space Mapping**  
G. Chahine, M.-I. Richard, R.A. Homs, T.-N. Tran-Caliste, D. Carbone, V. Jacques, R. Grifone, P. Boesecke, H. Djazouli, I. Costina, J. Katzer, T. Schroeder, T.U. Schüllli  
Journal of Applied Crystallography **47**, 762 (2014)
- (28) **A 0.8 THz  $f_{\text{Max}}$  SiGe HBT Operating at 4.3 K**  
P.S. Chakraborty, A.S. Cardoso, B.R. Wier, A.P. Omprakash, J.D. Cressler, M. Kaynak, B. Tillack  
IEEE Electron Device Letters **35**(2), 151 (2014)
- (29) **A Wide-Angle Scanning Active Transmit/Receive Reflectarray**  
T. Chaloun, W. Menzel, F. Tabarani, T. Purtova, H. Schumacher, M. Kaynak, Q. Luo, S. Gao, R. Starec, V. Ziegler  
IET Microwaves, Antennas & Propagation **8**, 811 (2014)
- (30) **Dispersion Engineered Silicon Nitride Waveguides by Geometrical and Refractive-Index Optimization**  
J. Chavez Boggio, D. Bodenmüller, R. Haynes, T. Fremberg, M. Roth, R. Eisermann, M. Lisker, L. Zimmermann, M. Böhm  
Journal of the Optical Society of America B **31**(11), 2846 (2014)
- (31) **Ultra-Low Noise and Low Power 18.7 GHz Radiometer LNAs in a 0.5 THz SiGe Technology Utilizing Back-Side Etched Inductors**  
C.T. Coen, R.L. Schmid, J.D. Cressler, M. Kaynak, B. Tillack  
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- (32) **Phase Regeneration of DPSK Signals in a Silicon Waveguide with Reverse-Biased p-i-n Junction**  
F. Da Ros, D. Vukovic, A. Gajda, K. Dalgaard, L. Zimmermann, B. Tillack, M. Galili, K. Petermann, C. Peueret  
Optics Express **22**(5), 5029 (2014)
- (33) **Comparison of Graphene Growth Mechanisms on Various Substrates**  
J. Dabrowski, G. Lippert, W. Mehr, G. Lupina  
NIC Series, **47**, 207 (2014)
- (34) **Role of Defects in the Process of Graphene Growth on Hexagonal Boron Nitride from Atomic Carbon**  
J. Dabrowski, G. Lippert, T. Schroeder, M.H. Oliveira Jr., G. Lupina  
Applied Physics Letters **105**, 191610 (2014)
- (35) **Ab Initio Modeling of Growth of Graphene for Silicon-Compatible Microelectronics**  
J. Dabrowski, A. Fleszar, G. Lippert, G. Lupina  
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- (36) **A Semi-Distributed Method for Inductor De-Embedding**  
J. Dang, A. Noculak, C. Jungemann, B. Meinerzhagen, F. Korndörfer  
Proc. 27<sup>th</sup> International Conference on Microelectronic Test Structures, 141 (2014)
- (37) **Epitaxial Ferromagnetic Oxide Thin Films on Silicon with Atomically Sharp Interfaces**  
P. de Coux, R. Bachelet, B. Warot-Fonrose, V. Skumryev, L. Lupina, G. Niu, T. Schroeder, J. Fontcuberta, F. Sánchez  
Applied Physics Letters **105**, 012401 (2014)
- (38) **240 GHz Transmitter and Receiver for 3D Imaging System in SiGe BiCMOS Technology**  
W. Debski, W. Winkler, J. Borngräber  
Proceedings of the 9<sup>th</sup> European Microwave Integrated Circuits Conference (EuMIC), 29 (2014)
- (39) **Proposing Individualization of the Design of Cryptographic Hardware Accelerators as Countermeasure against Structure and Side Channel Analysis**  
Z. Dyka, T. Basmer, Ch. Wittke, P. Langendörfer  
Resource URI: <http://dblp.l3s.de/d2r/resource/publications/journals/iacr/DykaBWL14>
- (40) **Using Supply Voltage Metal Layers as Low Cost Means to Hinder Several Types of Physical Attacks**  
Z. Dyka, F. Vater, Ch. Wittke, A. Datsuk, P. Langendörfer  
Proc. ISDF2014, 54 (2014)
- (41) **Combined High-Resolution Ranging and High Data Rate Wireless Communication System in the 60 GHz Band**  
M. Ehrig, M. Petri, V. Sark, J. Gutierrez Teran, E. Grass  
Proc. of the 11<sup>th</sup> Workshop on Positioning, Navigation and Communication (WPNC'14) (2014)
- (42) **A G-Band Four-Element Butler Matrix in 0.13  $\mu\text{m}$  SiGe BiCMOS Technology**  
M. Elkhoully, Y. Mao, Ch. Meliani, J.C. Scheytt, F. Ellinger  
IEEE Journal of Solid State Circuits **49**(9), 1916 (2014)
- (43) **GALS ECC Design for Side-Channel-Attack Resistance – A Comparative Study**  
X. Fan, St. Peter, M. Krstic  
Proc. International Workshop on Power and Timing Modeling, Optimization and Simulation (PATMOS 2014), (2014)

- (44) **Multi-Channel and Multi-Data Rate IR-UWB Single-Chip Transceiver Compliant to IEEE 802.15.4a**  
G. Fischer, D. Martynenko, O. Klymenko, D. Kreiser, S. Olonbayar  
Proc. 2014 IEEE International Conference on Ultra-Wideband (ICUWB 2014), (2014)
- (45) **Reliability of SiGe HBTs in Long-Term Operation**  
G.G. Fischer  
ECS Transactions **64**(6), 39 (2014)
- (46) **In-line Through Silicon Vias Etching Depths Inspection by Spectroscopic Reflectometry**  
O. Fursenko, J. Bauer, St. Marschmeyer  
Microelectronic Engineering **122**, 25 (2014)
- (47) **A 2.5 Vpp Broadband Linear Driver Core with 32 GHz Bandwidth for Segmented InP Mach-Zehnder Modulators**  
I. García López, D. Micusik, L. Zimmermann  
Proc. 21<sup>st</sup> IEEE International Conference on Electronics Circuits and Systems (ICECS), (2014)
- (48) **FMCW Radar Ramp Leakage Compensation via Closed Loop DC Correction**  
D. Genschow  
Proceedings of the 11<sup>th</sup> European Radar Conference (EuRAD) 2014, 459 (2014)
- (49) **A Monolithically Integrated Silicon Modulator with a 10Gb/s 5V<sub>pp</sub> or 5.6V<sub>pp</sub> Driver in 0.25 μm SiGe:C BiCMOS**  
B. Goll, D.J. Thomson, L. Zimmermann, H. Porte, F.Y. Gardes, Y. Hu, D. Knoll, St. Lischke, B. Tillack  
Frontiers in Physics **2**, 1 (2014)
- (50) **Characterization of Co and Ni Germanide Nanostructure Growth on Ge(001) Substrate: Comparative STM, LEED, TEM-EDX and XPS Study**  
T. Grzela, W. Koczorowski, G. Capellini, R. Czajka, N.J. Curson, T. Schroeder  
Proc. 10<sup>th</sup> Interregional Workshop on Advanced Nanomaterials (IWAN 2014), abstr. book, 9 (2014)
- (51) **Interface and Nanostructure Evolution of Cobalt Germanides on Ge(001)**  
T. Grzela, W. Koczorowski, G. Capellini, R. Czajka, M.W. Radny, N. Curson, S.R. Schofield, M.A. Schubert, T. Schroeder  
Journal of Applied Physics **115**, 074307 (2014)
- (52) **An 8 GHz CMOS Near Field Bio-Sensor Array for Imaging Spatial Permittivity Distribution of Biomaterials**  
S. Guha, F.I. Jamal, K. Schmalz, Ch. Wenger, Ch. Meliani  
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- (53) **SiGe p-n-p HBTs with 265 GHz  $f_{max}$ , 175 GHz  $f_r$ , and 3.65-ps Gate Delay**  
B. Heinemann, H. Rücker, R. Barth, J. Drews, O. Fursenko, T. Grabolla, R. Kurps, St. Marschmeyer, A. Scheit, D. Schmidt, A. Trusch, D. Wolansky, Y. Yamamoto  
IEEE Electron Device Letters **35**(8), 814 (2014)
- (54) **Dielectrophoretic Immobilisation of Proteins and Nanoparticles**  
R. Hölzel, X. Knigge, E.-M. Laux, U.Ch. Kaletta, S. Otto, S. Stanke, Ch. Wenger, F.F. Bier  
Proc. Dielectrophoresis, abstr. book, 19 (2014)

- (55) **A 246 GHz Hetero-Integrated Frequency Source in InP-on-BiCMOS Technology**  
M. Hossain, T. Kraemer, I. Ostermay, T. Jensen, B. Janke, Y. Borokhovych, M. Lisker, S. Glisic, M. Elkhoully  
IEEE Microwave and Wireless Components Letters **24**(7), 469 (2014)
- (56) **A Broadband 75 to 140 GHz Amplifier in 0.13  $\mu\text{m}$  SiGe HBT Process**  
P.-H. Ho, Y.-H. Lin, H. Wang, Ch. Meliani  
Proc. of the 9<sup>th</sup> European Microwave Integrated Circuits Conference (EuMIC 2014), 424 (2014)
- (57) **Optimization of Si MOS Transistors for THz Detection using TCAD Simulation**  
R. Jain, H. Rucker, N.R. Mohapatra  
Proc. IEEE International Conference on Simulation of Semiconductor Processes and Devices (SISPAD 2014), 213 (2014)
- (58) **A SiGe BiCMOS Dielectric Sensor Utilizing an Open-Ended Microstrip Line in a 28 GHz Colpitts Oscillator**  
F.I. Jamal, S. Guha, Ch. Meliani  
Proc. 44<sup>th</sup> European Microwave Conference (EuMC), 1032 (2014)
- (59) **Resistive Switching in Planar HfO<sub>2</sub>-based Metal-Insulator-Metal Structures**  
P. Jancovic, B. Hudec, J. Dérer, J. Fedor, A. Rosová, Ch. Walczyk, T. Schroeder, K. Fröhlich  
Proc. 18<sup>th</sup> Workshop on Dielectrics in Microelectronics (WODIM 2014), abstr. book, 189 (2014)
- (60) **Millimeter-Wave Hetero-Integrated Sources in InP-on-BiCMOS Technology**  
T. Jensen, T. Al-Sawaf, M. Lisker, S. Glisic, M. Elkhoully, T. Krämer, I. Ostermay, Ch. Meliani, B. Tillack, V. Krozer, W. Heinrich  
International Journal of Microwave and Wireless Technologies **6**(3/4), 225 (2014)
- (61) **Design and Results of W-Band Power Detectors in a 130 nm SiGe BiCMOS Process Technology**  
R. Jonsson, R. Malmqvist, S. Reyaz, A. Rydberg, M. Kaynak  
Proc. of the 9<sup>th</sup> European Microwave Integrated Circuits Conference (EuMIC), 289 (2014)
- (62) **MEMS Varactor with High RF Power Handling Capability for Tuning of Wideband Low Noise RF VCOs**  
G. Kahmen, M. Kaynak, M. Wietstruck, B. Tillack, H. Schumacher  
Proc. of the 44<sup>th</sup> European Microwave Conference (EuMC 2014), 207 (2014)
- (63) **Crosstalk Suppression of CMOS Compatible AlN Based SAW Devices on Low Resistive Si(100)**  
U.Ch. Kaletta, D. Wolansky, M. Fraschke, Ch. Wipf, Ch. Wenger  
Physica Status Solidi C **11**(2), 249 (2014)
- (64) **FEM Simulation of Rayleigh Waves for CMOS Compatible SAW Devices Based on AlN/SiO<sub>2</sub>/Si(100)**  
U.Ch. Kaletta, Ch. Wenger  
Ultrasonics **54**, 291 (2014)
- (65) **Application of Atomic Layer Deposited Dopant Sources for Ultra-Shallow Doping of Silicon**  
B. Kalkofen, A.A. Amusan, M. Lisker, E.P. Burte  
Physica Status Solidi C **11**(1), 41 (2014)
- (66) **BiCMOS Integrated Microfluidic Platform for Bio-MEMS Applications**  
M. Kaynak, M. Wietstruck, C. Baristiran Kaynak, St. Marschmeyer, P. Kulse, K. Schulz, H. Silz, A. Krüger, R. Barth, K. Schmalz, G. Gastrock, B. Tillack  
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- (67) **MEMS – BiCMOS Monolithic Integration**  
M. Kaynak, M. Wietstruck, C. Baristiran  
Kaynak, A. Goritz, S. Tolunay, B. Tillack  
Proc. URSI General Assembly and Scientific  
Symposium (URSI GASS) (2014)
- (68) **A 32 GSps Multiplexer with 1 kbit Memory  
for Arbitrary Signal Generation for Testing  
Digital-to-Analog Converters**  
M. Khafaji, C. Carta, K. Tittelbach-Helmrich,  
D. Micusik, G. Fischer, J.C. Scheytt, F. Ellinger  
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- (69) **Oxygen Precipitation and Defect  
Generation in Cz Silicon During Second and  
Millisecond Annealing**  
G. Kissinger, D. Kot, M.A. Schubert, A. Sattler  
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- (70) **Simulation of Vacancy Agglomeration  
Based on Ab Initio Calculations and  
Comparison with Experimental Results**  
G. Kissinger, J. Dabrowski, D. Kot  
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- (71) **The Influence of Flash Lamp Annealing on  
the Minority Carrier Lifetime of Czochralski  
Silicon Wafers**  
G. Kissinger, D. Kot, A. Sattler  
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- (72) **The Role of Time Scale in Oxide Precipitate  
Nucleation During Processing of  
Czochralski Silicon Material**  
G. Kissinger, D. Kot, A. Sattler  
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- (73) **Charge Carrier Transport Along Grain  
Boundaries in Silicon**  
M. Kittler, M. Reiche, M. Krause  
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- (74) **Dielectrophoretic Immobilization of Single  
Nanoobjects**  
X. Knigge, U.Ch. Kaletta, F.F. Bier, Ch. Wenger,  
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- (75) **High Performance Photonic BiCMOS – A  
Novel Technology for the Large  
Bandwidth Era**  
D. Knoll, L. Zimmermann, St. Lischke  
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- (76) **Monolithically Integrated 25 Gbit/sec  
Receiver for 1.55  $\mu\text{m}$  in Photonic BiCMOS  
Technology**  
D. Knoll, St. Lischke, L. Zimmermann,  
B. Heinemann, D. Micusik, P. Ostrovskyy,  
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B. Tillack  
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- (77) **On an Improved Boron Segregation  
Calibration from a Particular Sensitive  
Power MOS Process**  
S. Koffel, A. Burenkov, M. Sekowski, P. Pichler,  
D. Giubertoni, M. Bersani, M. Knaipp,  
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- (78) **Enabling Wireless Sensor Nodes for Self-  
Contained Jamming Detection**  
St. Kornemann, St. Ortmann, P. Langendörfer,  
A. Fragkiadakis  
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- (79) **Development of a Storage Getter Test for Cu Contaminations in Silicon Wafers Based on ToF-SIMS Measurements**  
D. Kot, G. Kissinger, A. Sattler, T. Müller  
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- (80) **Influence of Cu Concentration on the Getter Efficiency of Dislocations and Oxygen Precipitates in Silicon Wafers**  
D. Kot, G. Kissinger, M.A. Schubert, A. Sattler, T. Müller  
Solid State Phenomena **205-206**, 278 (2014)
- (81) **Influence of RTA Pre-Treatment on the Morphology of Oxygen Precipitates in Czochralski Silicon Wafers observed by FTIR Spectroscopy and STEM**  
D. Kot, G. Kissinger, M.A. Schubert, A. Sattler  
Proc. of the 7<sup>th</sup> Forum on the Science and Technology of Silicon Materials 2014, 81 (2014)
- (82) **Morphology of Oxygen Precipitates in RTA Pre-Treated Czochralski Silicon Wafers Investigated by FTIR Spectroscopy and STEM**  
D. Kot, G. Kissinger, M.A. Schubert, A. Sattler  
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- (83) **Morphology of Oxygen Precipitates in RTA Pre-Treated Czochralski Silicon Wafers Investigated by FTIR Spectroscopy and STEM**  
D. Kot, G. Kissinger, M.A. Schubert, A. Sattler  
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- (84) **Morphology of Oxygen Precipitates in Silicon Wafers Pre-Treated by Rapid Thermal Annealing**  
D. Kot, G. Kissinger, M.A. Schubert, A. Sattler  
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- (85) **Fast so schnell wie Licht – Forschung zu schnellerer Datenübertragung für die mobile Kommunikation**  
R. Kraemer, J. Nolte, M. Brzozowski, K. KrishneGowda, L. Lopacinski, S. Büchner  
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- (86) **Wireless 100 Gb/s and Beyond: Challenges and Approaches to Achieve Ultra-High Speed Wireless Communications**  
R. Kraemer  
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- (87) **Wireless 100 Gb/s and Beyond: Ein Schnappschuss aus dem DFG SPP 1655**  
R. Kraemer  
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- (88) **Wireless 100 Gb/s and Beyond: State of the German Specific Priority Project (SPP) on Ultra Fast Wireless Communication**  
R. Kraemer  
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- (89) **Zuverlässige selbstheilende drahtlose Sensornetze mit implizitem oder explizitem Redundanzmanagement**  
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- (24) Herstellung von Halbleiter-auf-Isolator- Schichtstrukturen**  
Y. Yamamoto, B. Tillack  
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