

## Conference Contributions

1. Abrasonis, G.; Kovacs, Gy. J.; Ryves, L.; Mücklich, A.; Krause, M.; Munnik, F.; Oates, T. W. H.; Bilek, M. M. M.; Kolitsch, A.; Möller, V.  
**Comparison of the structural developments in the C:Ni films grown by ion beam sputtering and pulsed filtered cathodic vacuum arc**  
*E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France*
2. Abrasonis, G.; Kovacs, Gy. J.; Oates, T. W. H.; Tucker, M.; Munnik, F.; Bilek, M. M. M.; Möller, W.  
**Hyperthermal ion induced self-organization during the growth of carbon-transition metal films**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
3. Al-Motasem, A. T.; Posselt, M.; Bergner, F.; Birkenheuer, U.  
**Atomic-level computer simulations of copper-vacancy clusters in alpha-Fe**  
*1<sup>st</sup> International School on Materials for Nuclear Reactors, 18.-23.10.2009, Rochehaut-sur-Semois, Belgium*
4. Arnold, M.; Merchel, S.; Bourlès, Didier L.; Braucher, R.; Benedetti, L.; Finkel, Robert C.; Aumaître, G.; Gottdang, A.; Klein, M.  
**The French accelerator mass spectrometry facility ASTER: Improved performance and developments**  
*19<sup>th</sup> International Conference on Ion Beam Analysis, 7.-11.09.2009, Cambridge, United Kingdom*
5. Bähz, C.; Jeutter, N.; Grenzer, J.; Borany, J. von  
**In-situ X-ray scattering investigations at ROBL**  
*European Congress and Exhibition on Advances Materials and Processes, 7.-10.09.2009, Glasgow, United Kingdom*
6. Batabyal, R.; Patra, S.; Roy, A.; Roy, S.; Bischoff, L.; Dev, B. N.  
**Estimation of diffusion coefficient by photoemission electron microscopy in ion-implanted nanostructures**  
*2<sup>nd</sup> International Conference on Physics at Surfaces and Interfaces, 23.-27.02.2009, Puri, India*
7. Baumgart, C.; Jänsch, S.; Helm, M.; Schmidt, H.  
**Kelvin probe force and scanning capacitance microscopy on MOS structures**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
8. Baumgart, C.; Müller, A.-D.; Müller, F.; Helm, M.; Möller, A.; Schmidt, H.  
**Kelvin probe force microscopy imaging of cross-sections of Si multilayer structures**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
9. Baumgart, C.; Helm, M.; Schmidt, H.  
**Frequency dependent Kelvin probe force microscopy on locally doped Si**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
10. Beinik, I.; Teichert, C.; Brauer, G.; Anwand, W.; Chen, X.; Hsu, Y. F.; Djuricic, A. B.  
**Characterization of single ZnO nanorods by conductive atomic force microscopy**  
*International Symposium Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, 23.-27.06.2009, Aveiro, Portugal*
11. Beinik, I.; Kratzer, M.; Wang, L.; Brauer, G.; Anwand, W.; Teichert, C.  
**Characterization of single ZnO nanorods by conductive atomic force microscopy**  
*Joint Annual Meeting of the Austrian Physical Society, 2.-4.09.2009, Innsbruck, Austria*
12. Bernert, K.; Schönlebe, J.; Oestreich, C.; Mikolajick, T.  
**Extraction of nitride trap density distribution in SONOS structures based on an advanced thermal emission model**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 26.03.2009, Dresden, Germany*
13. Beyer, R.; Borany, J. von; Burghardt, H.  
**Interface and border trap relaxation in Si/SiO<sub>2</sub> structures with Ge nanocrystals examined by transient capacitance spectroscopy**  
*16<sup>th</sup> Conference of Insulating Films on Semiconductors, 29.06.-1.07.2009, Cambridge, United Kingdom*
14. Beyer, R.; Borany, J. von  
**Determination of size and density of embedded nanocrystals in SiO<sub>2</sub> by scanning force microscopy using a tomographic approach**  
*15. Tagung Festkörperanalytik, 12.-16.07.2009, Chemnitz, Germany*
15. Bischoff, L.; Pilz, W.; Mazarov, P.; Wieck, A.  
**Alloy liquid metal ion sources for new FIB applications**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*

16. Bischoff, L.; Schmidt, B.; Lange, H.; Donzev, D.  
**Crossbeam processing for nano-structures on SOI substrates**  
*4<sup>th</sup> FIB-Workshop: Focused Ion Beams in Research, Science and Technology, 29.-30.06.2009, Halle/Saale, Germany*
17. Bischoff, L.; Schmidt, B.; Lange, H.; Donzev, D.  
**3D nanostructures by combined FIB and electron beam processing**  
*35<sup>th</sup> International Conference on Micro Nano Engineering 2009, 28.09.-1.10.2009, Ghent, Belgium*
18. Bürger, D.; Pandey, M.; Zhou, S.; Grenzer, J.; Reuther, H.; Anwand, W.; Helm, M.; Schmidt, H.  
**Structural and magnetic properties of pulsed laser annealed GaMnAs**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
19. Bürger, D.; Zhou, S.; Grenzer, J.; Reuther, H.; Anwand, W.; Pandey, M.; Gottschalch, V.; Helm, M.; Schmidt, H.  
**Influence of annealing on Mn implanted GaAs films**  
*5<sup>th</sup> International School and Conference on Spintronics and Quantum Information Technology, 7.-11.07.2009, Kraków, Poland*
20. Camargo, E. N.; Silva, M. M.; Baldissera, S.; Ueda, M.; Otubo, J.; Reuther, H.  
**Modificação da superfície da liga Ni-Ti pela implantação iônica por imersão em plasma**  
*64<sup>o</sup> Congresso da ABM – Associação Brasileira de Metalurgia, Materiais e Mineração, 13.-17.07.2009, Expominas, Belo Horizonte, Brasil*
21. Cantelli, V.; Grenzer, J.; Borany, J. von; Faßbender, J.  
**Tailoring the FePt orientation on amorphous substrates by magnetron sputtering, structural and magnetic investigations**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
22. Cantelli, V.; Grenzer, J.; Borany, J. von; Faßbender, J.  
**The effect of the sputtering gas (Ar, Xe) on FePt clusters formation: Structural and magnetic properties**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
23. Cherkouk, C.; Rebohle, L.; Skorupa, W.; Helm, M.  
**Nachweis von Östrogen- wirkenden Substanzen in wässrigen Lösungen**  
*6. Deutsches BioSensor Symposium (LOC-Lab-on-a-Chip und Point-of-Care Diagnostik), 30.03.-1.04.2009, Freiburg, Germany*
24. Cornelius, S.; Vinnichenko, M.; Rogozin, A.; Shevchenko, N.; Kolitsch, A.; Möller, W.  
**Influence of substrate temperature and oxygen partial pressure on the electrical properties of Al-doped ZnO grown by reactive pulsed magnetron sputtering**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
25. Cornelius, S.; Vinnichenko, M.; Kolitsch, A.; Möller, W.  
**Electrical properties of reactively sputtered ZnO thin films with a wide range of Al impurity concentrations**  
*16<sup>th</sup> International Summer School on Vacuum, Electron and Ion Technologies, 28.09.-2.10.2009, Sunny Beach, Bulgaria*
26. Da Silva, G.; Ueda, M.; Otani, C.; Reuther, H.  
**Corrosion resistance of aeronautics alloys treated by plasma immersion ion implantation (PIII)**  
*11<sup>th</sup> International Conference on Advanced Materials, 20.-25.09.2009, Rio de Janeiro, Brasil*
27. Dimitrakis, P.; Mouti, A.; Bonafos, C.; Schamm, S.; Ben Assayag, G.; Ioannou, V.; Schmidt, B.; Becker, J.; Normand, P.  
**Ultra-low-energy ion-beam-synthesis of Ge nanocrystals in thin ALD Al<sub>2</sub>O<sub>3</sub> layers for memory applications**  
*16<sup>th</sup> Biannual Conference of Insulating Films on Semiconductors, 29.06.-1.07.2009, Cambridge, United Kingdom*
28. Donchev, A.; Kolitsch, A.; Schütze, M.; Yankov, R.  
**Enhancing the resistance of Ti-alloys against environmental high temperature degradation by a combination of Al-enrichment and F-treatment**  
*European Congress and Exhibition on Advanced Materials and Processing, 7.-10.09.2009, Glasgow, United Kingdom*
29. Donchev, A.; Kolitsch, A.; Schütze, M.; Yankov, R.  
**Combined Al- plus F-treatment of Ti-alloys for improved behaviour at elevated temperatures**  
*European Federation of Corrosion Workshop, 30.09.-2.10.2009, Frankfurt/Main, Germany*
30. Drachenko, O.; Winnerl, S.; Schneider, H.; Helm, M.; Wosnitza, J.; Kozlov, D.; Maremyanin, K.; Ikonnikov, A.; Gavrilenko, V.; Zvonkov, B.; Goiran, M.; Leotin, J.; Fasching, G.  
**Cyclotron resonance absorption of 2D holes in strained InGaAs/GaAs quantum wells under high magnetic fields**  
*International Conference on Research in High Magnetic Fields, 22.-25.07.2009, Dresden, Germany*

31. Dupuy, J. C.; Dubois, C.; Prudon, G.; Gautier, B.; Kögler, R.; Akhmadaliev, S.; Perrat-Mabilon, A.; Peaucelle, C.  
**Isotopic comparative method (ICM) for the determination of variations of the useful ion yields in boron doped silicon as a function of oxygen concentration in the 0 - 10 at.% range**  
*17<sup>th</sup> International Conference on Secondary Ion Mass Spectrometry, 13.-17.09.2009, Toronto, Canada*
32. Fischer, H.; Koczur, K.; Lindner, M.; Jennissen, H. P.; Meissner, M.; Zurlinden, K.; Mueller-Mai, C.; Seifert, G.; Oliveira, A.; Morawetz, K.; Gemming, S.  
**Functionalized mineral surfaces: Sorption mechanisms of growth proteins on the surface of bone replacement materials (BioMin)**  
*GeoDresden 2009, 30.09.-2.10.2009, Dresden, Germany*
33. Fritsch, D.; Schmidt, H.  
**Electronic bandstructure of the ZnTe absorber material**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
34. Gago, R.; Redondo-Cubero, A.; Vinnichenko, M.; Jiménez, I.; Czigány, Zs.; Vázquez, L.  
**Correlation between morphology and bonding structure in titanium oxide films produced by reactive pulsed magnetron sputtering**  
*E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France*
35. Garroni, S.; Menendez, E.; Lopez Ortega, A.; Estrader, M.; Milanese, C.; Nolis, P.; Nogues, J.; Surinach, S.; Baro, M. D.  
**Sorption properties of the NaBH<sub>4</sub>/MgH<sub>2</sub> system: Dehydrogenation mechanism and pathway**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
36. Gemming, S.; Lubk, A.; Lichte, H.; Spaldin, N. A.  
**Dichtefunktional-Studie zu Domänengrenzen in BiFeO<sub>3</sub>**  
*17. Jahrestagung der Deutschen Gesellschaft für Kristallographie, 9.-12.02.2009, Hannover, Germany*
37. Gemming, S.; Kunze, T.; Numazawa, S.; Schreiber, M.  
**Novel concepts for anisotropic Heisenberg modeling of multiferroic oxides**  
*45<sup>th</sup> Symposium on Theoretical Chemistry, 8.-12.09.2009, Neuss, Germany*
38. Hamann, C.; McCord, J.; Faßbender, J.; Mattheis, R.; Kaltoven, R.; Schäfer, R.; Schultz, L.  
**Tuning the static and dynamic magnetization properties of exchange bias modulated thin films**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
39. Hanisch, A.; Grenzer, J.; Biermanns, A.; Pietsch, U.  
**Xe<sup>+</sup> ion beam induced rippled structures on Si miscut wafers**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
40. Heera, V.; Herrmannsdörfer, T.; Heinig, K.-H.; Ignatchik, O.; Mücklich, A.; Posselt, M.; Schmidt, B.; Skrotzki, R.; Skorupa, W.; Uhlarz, M.; Voelskow, M.; Wündisch, C.; Helm, M.; Wosnitza, J.  
**Superconductivity in heavily Ga-doped Ge**  
*Workshop Ionenstrahlphysik, 6.-8.04.2009, Jena, Germany*
41. Heinig, K.-H.; Schmidt, B.  
**Swift heavy ions: A tool for nanotechnology?**  
*Workshop Ionenstrahlphysik, 6.-8.04.2009, Jena, Germany*
42. Jeutter, N. M.; Zschintzsch, M.; Borany, J. von; Bähz, C.  
**In-situ X-ray studies of Ge nanocrystals formation out of (GeO<sub>x</sub>/SiO<sub>2</sub>) superlattices**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
43. *E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France*
44. Jeutter, N. M.; Zschintzsch, M.; Borany, J. von; Bähz, C.  
**Formation of Ge NCs out of (GeO<sub>x</sub>-SiO<sub>2</sub>) superlattice structures**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
45. Kanjilal, A.; Rebohle, L.; Voelskow, M.; Skorupa, W.; Helm, M.  
**Metal-oxide semiconductor light-emitting devices based on Ge nanocrystals co-implanted with Er ions**  
*SPIE Europe - Microtechnologies for the New Millennium, 4.-6.05.2009, Dresden, Germany*
46. Keller, A.; Nicoli, M.; Cuerno, R.; Facsko, S.; Möller, W.  
**Ripple rotation in the anisotropic Kuramoto-Sivashinsky equation**  
*MRS 2009 Spring Meeting, 13.-17.04.2009, San Francisco CA, USA*
47. Keller, A.; Nicoli, M.; Cuerno, R.; Facsko, S.; Möller, W.  
**Pattern rotation in the anisotropic Kuramoto-Sivashinsky equation**  
*Workshop "Nanoscale Modification of Surfaces and Thin Films", 30.08.-3.09.2009, Rathen, Germany*

48. Khan, S. A.; Tripathi, A.; Gerlach, J. W.; Grambole, D.; Toulemonde, M.; Assmann, W.  
**<sup>13</sup>C-detection for sputtering investigations**  
*19<sup>th</sup> International Conference on Ion Beam Analysis, 7.-11.09.2009, Cambridge, United Kingdom*
49. Kögler, R.  
**Implantation induced point defects and their role in silicon-on-insulator (SOI) materials processing**  
*Workshop Ionenstrahlphysik, 6.-8.04.2009, Jena, Germany*
50. Körner, M.; Liedke, M. O.; Strache, T.; Dzenisevich, S.; Keller, A.; Facsko, S.; Faßbender, J.  
**Influence of rippled substrate morphology on the interlayer exchange coupling in Fe/Cr/Fe thin films**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
51. Kosmata, M.; Grötzschel, R.; Hanf, D.; Munnik, F.; Akhmadaliev, C.; Vieluf, M.; Möller, W.  
**The QQDS magnetic spectrometer "Little John" for high resolution depth profiling**  
*Workshop Ionenstrahlphysik, 6.-8.04.2009, Jena, Germany*
52. Kosmata, M.; Grambole, D.; Grötzschel, R.; Möller, W.; Munnik, F.; Neelmeijer, C.; Vieluf, M.  
**Ionenstrahlanalyse ultradünner Schichten mit Nanometertiefenauflösung**  
*15. Tagung Festkörperanalytik, 12.-16.07.2009, Chemnitz, Germany*
53. Kosmata, M.; Grötzschel, R.; Munnik, F.; Vieluf, M.; Möller, W.  
**Release of light elements from ultra thin films during high resolution depth profiling using heavy ion ERDA**  
*19<sup>th</sup> International Conference on Ion Beam Analysis, 7.-11.09.2009, Cambridge, United Kingdom*
54. Kovacs, Gy. J.; Oates, T. W. H.; Mücklich, A.; Abrasonis, G.; Kolitsch, A.; Möller, W.  
**Structure and optical properties of boron nitride capped silver nanoparticles grown by magnetron sputtering**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
55. Krause, M.; Viršek, M.; Salacan, N.; Chen, L.; Abrasonis, G.; Kolitsch, A.; Remškar, M.; Fleischer, N.; Hatto, P.; Möller, W.  
**Size and shape dependent Raman scattering of WS<sub>2</sub> nanomaterials**  
*23<sup>rd</sup> International Winterschool on Electronic Properties of Novel Materials, 7.-14.03.2009, Kirchberg, Austria*
56. Krause-Rehberg, R.; Anwand, W.; Brauer, G.; Butterling, M.; Cowan, T.; Jungmann, M.; Krille, A.; Schwengner, R.; Wagner, A.  
**Progress of the EPOS project: Gamma-induced positron spectroscopy (GiPS)**  
*15<sup>th</sup> International Conference on Positron Annihilation, 18.-23.01.2009, Kolkata, India*
57. Krickl, R.; Nasdala, L.; Grambole, D.; Kaindl, R.  
**Radio-induced alteration in cordierite – Implications for petrology, gemmology and materials science**  
*General Assembly 2009 of the European Geosciences Union, 19.-24.04.2009, Vienna, Austria*
58. Krickl, R.; Götze, J.; Grambole, D.; Nasdala, L.; Kaindl, R.  
**Radiohaloes in feldspar group minerals**  
*Jahrestagung der Deutschen Mineralogischen Gesellschaft, 13.-16.09.2009, Halle, Germany*
59. Kunze, T.; Gemming, S.  
**Novel concepts for anisotropic Heisenberg modelling of multiferroic oxides**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
60. Kunze, T.; Gemming, S.; Luschtinetz, R.; Pankoke, V.; Morawetz, K.; Schreiber, M.; Eng, L.; Seifert, G.  
**Modelling the transport through organic layers on a ferroelectric substrate**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
61. Kunze, T.; Gemming, S.; Luschtinetz, R.; Pankoke, V.; Morawetz, K.; Schreiber, M.  
**Conductivity through an organic field-effect transistor with ferroelectric gating**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
62. Kuriplach, J.; Melikhova, O.; Cizek, J.; Prochazka, I.; Brauer, G.; Anwand, W.  
**Positron trapping at vacancy-hydrogen complexes in zinc oxide**  
*Advanced Science Research, Symposium "Positron, Muon, and other Exotic Particle Beams for Materials Science and Atomic/Molecular Sciences", 10.-12.11.2009, Tokai, Japan*
63. Kuriplach, J.; Brauer, G.; Melikhova, O.; Cizek, J.; Prochazka, I.; Anwand, W.  
**Divacancy-hydrogen complexes in zinc oxide**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
64. Kuznetsova, L.; Wang, C. Y.; Gkortsas, V. M.; Diehl, L.; Kärtner, F.; Belkin, M. A.; Belyanin, A.; Li, X.; Ham, D.; Schneider, H.; Liu, H. C.; Capasso, F.  
**Mode-locking via active gain modulation in quantum cascade lasers**

- Conference on Lasers and Electro-Optics, 2009 and 2009 Conference on Quantum Electronics and Laser Science Conference, 2.-4.06.2009, Baltimore MD, USA*
65. Lenz, K.; Körner, M.; Liedke, M. O.; Strache, T.; Dzenisevich, S.; Keller, A.; Facsko, S.; Faßbender, J.  
**Tailoring the Néel- and interlayer exchange coupling of Fe/Cr/Fe trilayers using rippled substrates**  
*Advances in Magnetic Nanostructures, 4.-9.10.2009, Vail CO, USA*
  66. Lenz, K.; Marko, D.; Strache, T.; Faßbender, J.  
**Determination of the saturation magnetization from perpendicular magnetic anisotropy measurements**  
*Advances in Magnetic Nanostructures, 4.-9.10.2009, Vail CO, USA*
  67. Liedke, B.; Heinig, K.-H.  
**Competition ion beam mixing and phase separation: A novel program combining TRIM with kinetic Monte Carlo**  
*Workshop Ionenstrahlphysik, 6.-7.04.2009, Jena, Germany*
  68. Liedke, B.; Heinig, K.-H.; Facsko, S.; Möller, W.  
**Ion-induced surface pattern evolution in computer simulations with a new approach – unification of collision cascade and kinetic 3D Monte Carlo calculations**  
*Workshop "Nanoscale Modification of Surfaces and Thin Films", 30.08.-3.09.2009, Rathen, Germany*
  69. Liedke, B.; Heinig, K.-H.; Facsko, S.; Möller, W.  
**Classification of simulated surface morphologies induced by ion irradiation using combined TRIM and kinetic Monte-Carlo calculations**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
  70. Liedke, B.; Heinig, K.-H.; Odor, G.  
**Efficient numerical studies of scaling properties and pattern formation during surface growth/ erosion by surface mapping on a binary lattice gas model**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
  71. Lubk, A.; Spaldin, N.; Gemming, S.; Lichte, H.  
**First principle calculations of domain boundaries in multiferroic BiFeO<sub>3</sub>**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
  72. Lushtinetz, R.; Enyashin, A. N.; Milek, T.; Frenzel, J.; Gemming, S.; Seifert, G.  
**DFT-study of the adsorption of organic molecules on low-index titanium dioxide surfaces**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
  73. Markó, D.; Strache, T.; Lenz, K.; Faßbender, J.; Kaltofen, R.  
**Ion irradiation induced modification of magnetic properties in Py-Ta multilayers**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
  74. Markov, A. B.; Reuther, H.; Shevchenko, N.  
**Polishing of titanium and enhancing the wear resistance of the titanium alloys with a low-energy high-current electron beam**  
*14<sup>th</sup> International Conference on Radiation Physics and Chemistry of Inorganic Materials, 6.-10.10.2009, Astana, Kazakhstan*
  75. Martin, N.; McCord, J.; Gerber, A.; Strache, T.; Gemming, T.; Mönch, I.; Schäfer, R.; Faßbender, J.; Quandt, E.; Schultz, L.  
**Local setting of magnetic anisotropy in FeCoSiB thin films by means of indirect ion implantation**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
  76. Martinavicius, A.; Abrasonis, G.; Möller, W.  
**Temperature dependence of nitrogen diffusion in single crystalline austenitic stainless steel during ion beam nitriding**  
*15<sup>th</sup> International Summer School on Vacuum, Electron and Ion Technologies, 28.09.-2.10.2009, Sunny Beach, Bulgaria*
  77. Masset, P. J.; Yankov, R. A.; Kolitsch, A.; Schütze, M.  
**Comparison of fluorination treatments to improve the high temperature oxidation resistance of TiAl alloys in SO<sub>2</sub>-containing environments**  
*International Conference on Processing and Manufacturing of Advanced Materials, 25.-29.08.2009, Berlin, Germany*
  78. Masset, P. J.; Neve, S.; Zschau, H.-E.; Yankov, R. A.; Kolitsch, A.; Schütze, M.  
**Oxidation resistance improvement of TiAl alloys by the halogen effect in industrial environments**  
*European Congress and Exhibition on Advanced Materials and Processes, 7.-10.09.2009, Glasgow, United Kingdom*
  79. Mazarov, P.; Bischoff, L.; Pilz, W.; Wieck, A.  
**A silver containing liquid alloy ion source**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*

80. Melikhova, O.; Cizek, J.; Kuriplach, J.; Prochazka, I.; Cieslar, M.; Brauer, G.; Anwand, W.  
**Quenched-in vacancies in Fe-Al alloys**  
*15<sup>th</sup> International Conference on Positron Annihilation, 18.-23.01.2009, Kolkata, India*
81. Melikhova, O.; Cizek, J.; Kuriplach, J.; Prochazka, I.; Cieslar, M.; Brauer, G.; Anwand, W.  
**Hydrogen-induced defects in Pd films**  
*15<sup>th</sup> International Conference on Positron Annihilation, 18.-23.01.2009, Kolkata, India*
82. Melikhova, O.; Kuriplach, J.; Cizek, J.; Prochazka, I.; Brauer, G.; Anwand, W.  
**Investigation of hydrogen interaction with defects in zirconia**  
*Advanced Science Research Symposium "Positron, Muon, and other Exotic Particle Beams for Materials Science and Atomic/Molecular Sciences", 10.-12.11.2009, Tokai, Japan*
83. Melikhova, O.; Kuriplach, J.; Cizek, J.; Prochazka, I.; Brauer, G.; Anwand, W.  
**Investigation of interaction of hydrogen with defects in zirconia**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
84. Mello, C. B.; Ueda, M.; Silva, M. M.; Reuther, H.; Pichon, L.; Lepienski, C. M.  
**Tribological effects of plasma immersion ion implantation heating treatments on Ti-6Al-4V alloy**  
*17<sup>th</sup> International Conference on Wear of Materials, 19.-23.04.2009, Las Vegas, USA*
85. Mello, C. B.; Ueda, M.; Oliveira, R. M.; Reuther, H.; Lepienski, C. M.  
**Enhancement of surface properties of SAE 1070 by chromium plasma immersion ion implantation and deposition**  
*10<sup>th</sup> International Workshop on Plasma Based Ion Implantation and Deposition, 7.-11.09.2009, São José dos Campos, Brazil*
86. Merchel, S.; Bremser, W.; Alfimov, V.; Arnold, M.; Aumaître, G.; Benedetti, L.; Bourlès, Didier L.; Braucher, R.; Caffee, M.; Christl, M.; Fifield, L. Keith; Finkel, Robert C.; Freeman, Stewart P. H. T.; Ruiz-Gómez, A.; Kubik, Peter W.; Rood, Dylan H.; Sasa, K.; Steier, P.; Tims, Stephen G.; Wallner, A.; Wilcken, Klaus M.; Xu, S.  
**Be-10 and Cl-36 interlaboratory comparisons**  
*73. Jahrestagung der DPG und DPG Frühjahrstagung 2009 der Sektion AMOP, 2.-6.03.2009, Hamburg, Germany*
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**Be-10 and Cl-36 interlaboratory comparisons: Implications for terrestrial production rates?**  
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**Quality assurance in accelerator mass spectrometry: Results from international round-robin exercises for Be-10 and Cl-36**  
*19<sup>th</sup> International Conference on Ion Beam Analysis, 7.-11.09.2009, Cambridge, United Kingdom*
89. Mironov, O. A.; Goiran, M.; Galibert, J.; Drachenko, O.; Helm, M.; Wosnitza, J.; Kozlov, D. V.; Ikonnikov, A. V.; Gavrilenko, V. I.; Kummer, M.; von Känel, H.; Morris, R. J. H.; Leadley, D. R.  
**Cyclotron resonance of extremely conductive 2D holes in high Ge content strained heterostructures**  
*9<sup>th</sup> International Conference on Research in High Magnetic Fields, 22.-25.07.2009, Dresden, Germany*
90. Möller, W.; Kolitsch, A.; Merchel, S.; Zier, M.; The Spirit Consortium (www. Spirit-Ion. Eu)  
**The SPIRIT project: Fast ions for everybody in Europe**  
*GDCh-Wissenschaftsforum Chemie 2009, 30.08.-2.09.2009, Frankfurt am Main, Germany*
91. Mücklich, A.; Potzger, K.  
**Clusters in cobalt implanted boron pre-doped ZnO**  
*Microscopy Conference 2009, 30.08.-4.09.2009, Graz, Austria*
92. Munnik, F.; Grambole, D.; Gröttschel, R.; Merchel, S.; Neelmeijer, C.  
**Accelerator mass spectrometry (AMS) and ion beam analysis (IBA) with the new 6 MV accelerator at FZ Dresden-Rossendorf**  
*Deutschsprachige Analytiker Konferenz 2009, 17.-20.03.2008, Berlin, Germany*
93. Munnik, F.  
**Characterisation of thin films using ion beams**  
*Materials Science Workshop II, 23.-25.03.2009, Sohag, Egypt*
94. Munnik, F.; Cabral, A. R.; Lehmann, B.  
**Micro-ERDA measurements of hydrogen distribution in natural Pd-Pt compounds**  
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95. Nasdala, L.; Grambole, D.; Wildner, M.; Zaitsev, Alexander M.; Götze, J.; Kempe, U.; Hanchar, John M.; Harris, Jeffrey W.

- Radiation-induced defect centers: Luminescence and optical absorption study of helium-irradiated diamond and zircon**  
*AGU Joint Assembly 2009 - The Meeting of the Americas, 24.-27.05.2009, Toronto, Canada*
96. Nasdala, L.; Grambole, D.; Váczi, T.; Götze, J.  
**Is there alpha-assisted annealing of radiation damage? A helium implantation study of radiation-damaged zircon and monazite**  
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**Ion beam analysis (IBA) and accelerator mass spectrometry (AMS) with the new 6 MV accelerator at FZ Dresden-Rossendorf**  
*GDCh-Wissenschaftsforum Chemie 2009, 30.08.-2.09.2009, Frankfurt/Main, Germany*
98. Nomura, K.; Németh, Z.; Reuther, H.  
 **$^{57}\text{Fe}$  implantation effect of Sb doped  $\text{SnO}_2$  films**  
*International Conference on the Applications of the Mössbauer Effect, 19.-24.07.2009, Vienna, Austria*
99. Nomura, K.; Iio, S.; Hirose, Y.; Nemeth, Z.; Yamamoto, K.; Reuther, H.  
**Characterization of  $^{57}\text{Fe}$  implanted and annealed  $\text{SnO}_2$  (3% Sb) films by depth selective conversion electron Mossbauer spectroscopy (DCEMS)**  
*Asia-Pacific Symposium on Radiochemistry, 29.11.-4.12.2009, Napa CA, USA*
100. Nomura, K.; Németh, Z.; Rykov, A.; Reuther, H.  
**Characterization of  $^{57}\text{Fe}$  implanted  $\text{SnO}_2$  films by Mössbauer spectroscopy and nuclear inelastic scattering**  
*Asia-Pacific Symposium on Radiochemistry, 29.11.-4.12.2009, Napa CA, USA*
101. Numazawa, S.; Heinig, K.-H.; Ranjan, M.; Facsko, S.  
**Mechanisms of metal self-ordering at grazing PVD on ion-erosion-induced surface pattern**  
*Workshop "Nanoscale Modification of Surfaces and Thin Films", 30.08.-3.09.2009, Rathen, Germany*
102. Numazawa, S.; Heinig, K.-H.  
**Prediction of surface pattern formation by surface defect generation and diffusion**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
103. Numazawa, S.; Heinig, K.-H.; Ranjan, M.; Facsko, S.  
**Mechanisms of metal self-ordering at oblique PVD on nanopatterned surfaces**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
104. Odor, G.; Liedke, B.; Heinig, K.-H.  
**Mapping two-dimensional surface patterns and scaling onto driven lattice gases**  
*34<sup>th</sup> Conference of the Middle European Cooperation in Statistical Physics, 30.03.-1.04.2009, Leipzig, Germany*
105. Odor, G.; Liedke, B.; Heinig, K.-H.  
**KPZ growth mapping onto driven lattice gas model of n-mers**  
*Workshop on Statistical Physics, 16.04.2009, Budapest, Hungary*
106. Ogiewa, M.; Zier, M.; Schmidt, B.  
**Electrical Characterisation of USJs in doped Si**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
107. Oliveira, R. M.; Ueda, M.; Silva, L. L. G.; Reuther, H.; Lepienski, C. M.  
**Characteristics of austenitic stainless steel nitrided in a hybrid glow discharge plasma**  
*17<sup>th</sup> International Conference on Wear of Materials, 19.-23.04.2009, Las Vegas, USA*
108. Ou, X.; Kögler, R.; Skorupa, W.; Möller, W.; Wang, X.  
**Oxygen gettering in thin buried oxide layer fabrication**  
*5<sup>th</sup> Workshop of the Thematic Network on Silicon on Insulator Technology, Devices and Circuits, 19.-21.01.2009, Göteborg, Sweden*
109. Pankoke, V.; Gemming, S.  
**Effects of film thickness and Co doping on the magnetism of Pd structures**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
110. Peter, F.; Winnerl, S.; Schneider, H.; Helm, M.; Köhler, K.  
**Terahertz emission from an InGaAsN large area emitter**  
*International Workshop on Optical Terahertz Science and Technology, 7.-11.03.2009, Santa Barbara, USA*
111. Peter, F.; Winnerl, S.; Schneider, H.; Helm, M.; Köhler, K.  
**Terahertz wave emission from InGaAsN large area emitter**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*

112. Peter, F.; Winnerl, S.; Schneider, H.; Helm, M.; Köhler, K.  
**Large-area terahertz emitters based on GaInAsN**  
*SPIE Europe Microtechnologies for the New Millennium, 4.-6.05.2009, Dresden, Germany*
113. Peter, S.; Günther, M.; Hauschild, D.; Grambole, D.; Richter, F.  
**Mid-frequency deposition of a-C:H films using five different precursors**  
*4<sup>th</sup> Symposium on Vacuum based Science and Technology in conjunction with 8<sup>th</sup> Annual Meeting of German Vacuum Society, 21.-23.09.2009, Koszalin- Kołobrzeg, Poland*
114. Popov, I.; Seifert, G.; Gemming, S.  
**A structure-induced metal-insulator transition in thin MoS nanowires**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
115. Posselt, M.  
**Atomistic simulation of ion-beam-induced defect formation**  
*International Workshop "Exchange on Laser-Plasma Interaction Theory", 1.-3.04.2009, Dresden, Germany*
116. Posselt, M.; Gabriel, A.  
**Atomistic simulation of recrystallization of amorphous Si and Ge**  
*13<sup>th</sup> International Autumn Meeting on Gettering and Defect Engineering in Semiconductor Technology, 26.09.-2.10.2009, Döllnsee-Schorfheide, Germany*
117. Potzger, K.; Zhou, S.; Mücklich, A.; Xu, Q.; Schmidt, H.; Helm, M.; Faßbender, J.  
**'Invisible' ferromagnetic secondary phases in Co doped ZnO**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
118. Prochazka, I.; Cizek, J.; Melikhova, O.; Kuriplach, J.; Kuzel, R.; Brauer, G.; Anwand, W.; Konstantinova, T. E.; Danilenko, I. A.  
**Defects in nanostructured yttria-stabilized zirconia studied by positron annihilation spectroscopy**  
*15<sup>th</sup> International Conference on Positron Annihilation, 18.-23.01.2009, Kolkata, India*
119. Rebohle, L.  
**Physical limitations of the hot electron impact excitation mechanism in electrically driven Si-based light emitters**  
*IBEDM 2009, 2.10.2009, Tossa de Mar, Spain*
120. Reuther, H.; Müller, C.; Leonhardt, A.; Kutz, M. C.  
**Investigation of the formation of Fe-filled Carbon nanotubes**  
*International Conference on the Applications of the Mössbauer Effect, 19.-24.07.2009, Vienna, Austria*
121. Roshchupkina, O.; Grenzer, J.; Faßbender, J.; Choi, Y.; Jiang, J. S.; Bader, S. D.  
**Tuning exchange spring magnets by ion irradiation and annealing: X-ray investigations**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
122. Scarlat, C.; Zhou, S.; Vinnichenko, M.; Kolitsch, A.; Bürger, D.; Faßbender, J.; Potzger, K.; Shalimov, A.; Grenzer, J.; Helm, M.; Schmidt, H.  
**Optical and magnetic properties of indium oxides implanted with Cr**  
*E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France*
123. Schlosser, M.; Iskra, P.; Abelein, U.; Lange, H.; Lochner, H.; Sulima, T.; Wiest, F.; Zilbauer, T.; Schmidt, B.; Eisele, I.; Hansch, W.  
**The impact ionization MOSFET (IMOS) as low-voltage optical detector**  
*11<sup>th</sup> European Symposium on Semiconductor Detectors, New Developments in Radiation Detectors, 7.-11.06.2009, Wildbad Kreuth, Germany*
124. Schmidt, B.; Heinig, K.-H.; Beyer, V.; Stegemann, K.-H.  
**Ion beam mixing as basic technology for a light-emitting silicon nanocrystal field-effect transistor**  
*Workshop Ionenstrahlphysik, 6.-8.04.2009, Jena, Germany*
125. Schmidt, B.; Zier, M.; Potfajova, J.  
**Ion implantation in AFM cantilever array fabrication**  
*54<sup>th</sup> Internationales Wissenschaftliches Kolloquium, Workshop „PRONANO“, 10.09.2009, Ilmenau, Germany*
126. Schmidt, M.; Ellguth, M.; Lüder, T.; Wenckstern, H. von; Pickenhain, R.; Grundmann, M.; Brauer, G.; Skorupa, W.; Helm, M.  
**Investigation of defects in nitrogen implanted n-type ZnO by capacitance spectroscopy and simultaneous optical excitation**  
*25<sup>th</sup> International Conference on Defects in Semiconductors, 20.-24.07.2009, St. Petersburg, Russia*
127. Schmidt, M.; Ellguth, M.; Brachwitz, K.; Brandt, M.; Wenckstern, H. von; Pickenhain, R.; Grundmann, M.; Brauer, G.; Skorupa, W.

- Deep levels in Ni doped ZnO materials research society**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
128. Schneider, H.; Liu, H. C.; Winnerl, S.; Drachenko, O.; Helm, M.; Walther, M.; Faist, J.  
**Quadratic detection with two-photon quantum well infrared photodetectors**  
*International Conference "Quantum Structure Infrared Photodetector", 18.-23.01.2009, Yosemite, USA*
129. Schneider, H.; Bracht, H.; Klug, J. N.; Lundsgaard Hansen, J.; Bourgeard, D.; Liao, C. Y.; Haller, E. E.; Posselt, M.; Wündisch, C.  
**Radiation enhanced diffusion in germanium**  
*25<sup>th</sup> International Conference on Defects in Semiconductors, 20.-24.06.2009, St. Petersburg, Russia*
130. Seeger, M.; Bürger, D.; Rebohle, L.; Skorupa, W.; Helm, M.; Schmidt, H.  
**Photocapacitance measurements on MOS light emitting devices**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
131. Shalimov, A.; Potzger, K.; Geiger, D.; Lichte, H.; Talut, G.; Misiuk, A.; Reuther, H.; Stromberg, F.; Zhou, S.; Bähz, C.  
**Fe nanoparticles embedded in MgO crystals**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
132. Shevchenko, N.; Kolitsch, A.  
**Porous steel surfaces produced by plasma immersion ion implantation**  
*International Conference on Physical Mesomechanics and Computer-Aided Design and Development of Advanced Materials, 8.-11.09.2009, Tomsk, Russia*
133. Siqueira, R. H. M.; Ueda, M.; Lepiński, C. M.; Reuther, H.  
**Improvement of satellite imaging camera components made of SS304 by nitrogen PIII treatments**  
*10<sup>th</sup> International Workshop on Plasma Based Ion Implantation and Deposition, 7.-11.09.2009, São José dos Campos, Brazil*
134. Skorupa, W.; Anwand, W.; Gebel, T.  
**Energy pulse modification of electronic materials: From electronics via photonics to other advanced materials**  
*European Project Meeting "Teramagstor", 28.-29.05.2009, Santorini, Greece*
135. Strache, T.; Reichel, L.; Wintz, S.; Fritzsche, M.; Mönch, I.; Raabe, J.; Martin, N.; McCord, J.; Körner, M.; Markó, D.; Romstedt, F.; Faßbender, J.  
**Ion irradiation of permalloy: From thin magnetic films to lateral exchange spring nanostructures**  
*Workshop Ionenstrahlphysik, 6.-8.04.2009, Jena, Germany*
136. Strache, T.; Tibus, S.; Springer, F.; Rohrmann, H.; Albrecht, M.; Lenz, K.; Faßbender, J.  
**Tuning coercivity in CoCrPt-SiO<sub>2</sub> hard disk material**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
137. Talut, G.; Reuther, H.; Grenzer, J.; Bähz, C.; Novikov, D.; Walz, B.  
**On the formation of secondary phases in Fe implanted GaN**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
138. Talut, G.; Grenzer, J.; Reuther, H.; Bähz, C.; Novikov, D.; Walz, B.  
**Repeatable phase change in Fe implanted GaN induced by multi-annealing in reduced atmosphere**  
*International Conference on the Applications of the Mössbauer Effect, 19.-24.07.2009, Vienna, Austria*
139. Thieme, M.; Gemming, S.; Potzger, K.  
**Vanadium:silicon - an ion-beam generated diluted magnetic semiconductor? - Integration of vanadium into the silicon host crystal**  
*DPG Frühjahrstagung der Sektion Kondensierte Materie 2009, 25.03.2009, Dresden, Germany*
140. Thieme, M.; Gemming, S.; Potzger, K.  
**Vanadium:silicon - an ion-beam generated diluted magnetic semiconductor? Vanadium diffusion and concentration predictions in silicon**  
*23<sup>rd</sup> Nordic Semiconductor Meeting, 14.-17.06.2009, Reykjavik, Iceland*
141. Thorn, A.; Ritter, E.; Ullmann, F.; Zschornack, G.; Bischoff, L.; Pilz, W.  
**Investigations on Dresden EBIS/T as charge breeders**  
*5<sup>th</sup> SPARC Collaboration Symposium, 1.-4.09.2009, Lisboa, Portugal*
142. Turos, A.; Nowicki, L.; Stonert, A.; Pagowska, K.; Jagielski, J.; Mücklich, A.  
**Monte Carlo simulations of ion channeling in crystals containing extended defects**  
*19<sup>th</sup> International Conference on Ion Beam Analysis, 7.-11.09.2009, Cambridge, United Kingdom*
143. Valenzuela, M.; Rochette, P.; Bours, Didier L.; Braucher, R.; Faestermann, T.; Finkel, Robert C.; Gattaccea, J.; Korschinek, G.; Merchel, S.; Morata, D.; Poutivtsev, M.; Rugel, G.; Suavet, C.

**The age of the Monturaqui impact crater***72<sup>nd</sup> Annual Meeting of the Meteoritical Society, 13.-18.07.2009, Nancy, France*

144. Vinnichenko, M.; Rogozin, A.; Grambole, D.; Munnik, F.; Kolitsch, A.; Möller, W.; Stenzel, O.; Wilbrandt, S.; Chuvilin, A.; Kaiser, U.  
**Highly dense amorphous Nb<sub>2</sub>O<sub>5</sub> films with closed nano-sized pores**  
*E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France*
145. Virsek, M.; Krause, M.; Kolitsch, A.; Mrzel, A.; Iskra, I.; Remskar, M.  
**Structural properties of MoS<sub>2</sub> "mama"- tubes and related materials**  
*23<sup>rd</sup> International Winterschool on Electronic Properties of Novel Materials, 7.-14.03.2009, Kirchberg, Austria*
146. Wagner, M.; Schneider, H.; Helm, M.; Schartner, S.; Andrews, A. M.; Roch, T.; Strasser, G.  
**THz sideband generation in GaAs/AlGaAs multi quantum wells**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
147. Wagner, M.; Schneider, H.; Winnerl, S.; Helm, M.; Roch, T.; Andrews, A. M.; Schartner, S.; Strasser, G.  
**Efficient THz sideband generation in GaAs/AlGaAs multi quantum wells**  
*16<sup>th</sup> International Conference on Electron Dynamics in Semiconductors, Optoelectronics and Nanostructures, 24.-28.08.2009, Montpellier, France*
148. Wagner, M.; Golde, D.; Stehr, D.; Schneider, H.; Helm, M.; Andrews, A. M.; Roch, T.; Strasser, G.; Kira, M.; Koch, S. W.  
**Fano profile in the intersubband THz response of photoexcited GaAs/AlGaAs quantum wells**  
*16<sup>th</sup> International Conference on Electron Dynamics in Semiconductors, Optoelectronics and Nanostructures, 24.-28.08.2009, Montpellier, France*
149. Wagner, M.; Golde, D.; Stehr, D.; Schneider, H.; Helm, M.; Andrews, A. M.; Roch, T.; Strasser, G.; Kira, M.; Koch, S. W.  
**Fano interference in the intersubband THz response of photoexcited GaAs/AlGaAs quantum wells**  
*10<sup>th</sup> International Conference on Intersubband Transitions in Quantum Wells, 6.-11.09.2009, Montreal, Canada*
150. Weißbach, T.; Lubk, A.; Leisegang, T.; Führlich, T.; Wunderlich, F.; Souptel, D.; Behr, G.; Chaplygin, I.; Seifert, G.; Meyer, D. C.; Gemming, S.  
**Structural and DFT studies on YFeMnO<sub>5</sub>**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
151. Weißbach, T.; Riedl, T.; Gemming, T.; Gemming, S.; Zschornak, M.; Gutmann, E.; Stöcker, H.; Leisegang, T.; Meyer, D. C.  
**Electronic properties of defects in SrTiO<sub>3</sub> - theory and experiments**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
152. Wilde, L.; Bähz, C.; Borany, J. von; Krügener, J.; Teichert, S.  
**Simultaneous structural and electrical measurements on Si-doped Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub> for PCRAM applications**  
*12<sup>th</sup> International Conference on the Formation of Semiconductor Interfaces, 5.-10.07.2009, Weimar, Germany*
153. Winnerl, S.; Zimmermann, B.; Peter, F.; Schneider, H.; Helm, M.  
**Terahertz emitters and detectors for radially and azimuthally polarized beams**  
*SPIE Europe Microtechnologies for the New Millennium, 4.-6.05.2009, Dresden, Germany*
154. Winnerl, S.; Zimmermann, B.; Hubrich, R.; Peter, F.; Schneider, H.; Helm, M.  
**Free-space propagation of radially and azimuthally polarized terahertz Bessel-Gauss beams**  
*European Conference on Lasers and Electro-Optics and 11<sup>th</sup> European Quantum Electronics Conference, 14.-19.06.2009, München, Germany*
155. Winnerl, S.; Zimmermann, B.; Hubrich, R.; Peter, F.; Schneider, H.; Helm, M.  
**Photoconductive emitters and detectors for radially and azimuthally polarized terahertz beams**  
*CNRS Workshop "Semiconductor Sources and Detectors of THz Radiation", 16.-17.11.2009, Montpellier, France*
156. Wolff, T.; Denker, A.; Hahn, O.; Merchel, S.; Radtke, M.; Reinholz, U.  
**Quantitative analysis of corroded coins with four non-destructive X-ray methods**  
*19<sup>th</sup> International Conference on Ion Beam Analysis, 7.-11.09.2009, Cambridge, United Kingdom*
157. Wündisch, C.; Posselt, M.; Schmidt, B.; Mücklich, A.; Skorupa, W.; Clarysse, T.; Simoen, E.; Hortenbach, H.  
**Preparation of shallow n<sup>+</sup>-layers in Ge using flash lamp annealing**  
*Nordic Semiconductor Meeting, 14.-17.06.2009, Reykjavik, Iceland*
158. Yang, K.; Ruf, H.; Neuhaus, J.; Dekorsy, T.; Villas-Boas Grimm, C.; Helm, M.; Heumann, E.; Huber, G.; Biermann, K.; Künzel, H.  
**Saturable absorption mode-locking based on intersubband transitions in quantum wells at 2 μm**  
*European Conference on Lasers and Electro-Optics and 11<sup>th</sup> European Quantum Electronics Conference, 14.-19.06.2009, München, Germany*

159. Yankov, R. A.; Kolitsch, A.; Borany, J. von; Munnik, F.; Donchev, A.; Schütze, M.  
**Surface modification of Ti and low Al-content Ti alloys for enhanced environmental stability at elevated temperatures**  
*E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France*
160. Zhou, S.; Berndt, M.; Bürger, D.; Abrasonis, G.; Heera, V.; Faßbender, J.; Helm, M.; Schmidt, H.  
**Magneto-transport properties of nanocomposite cobalt/carbon systems**  
*Magnetism Meets Semiconductors: Spin Phenomena in Heterostructures and Novel Materials, 5.-7.01.2009, Bad Honnef, Germany*
161. SPIE Europe Microtechnologies for the New Millennium, 4.-6.05.2009, Dresden, Germany
162. International Conference on Magnetism, 26.-31.07.2009, Karlsruhe, Germany
163. Zhou, S.; Berndt, M.; Bürger, D.; Abrasonis, G.; Radnoczi, G.; Schmidt, H.; Kolitsch, A.; Helm, M.  
**Spin-dependent transport in C:Co and C:Ni nanocomposite thin films**  
*MRS 2009 Fall Meeting, 30.11.-4.12.2009, Boston MA, USA*
164. Zhou, S.; Bürger, D.; Heera, V.; Potzger, K.; Faßbender, J.; Helm, M.; Schmidt, H.  
**Dilution of Mn in Ge: The evidence from samples' electrical and magneto-transport properties**  
*International Conference on Magnetism, 26.-31.07.2009, Karlsruhe, Germany*
165. Zhou, S.; Cizmar, E.; Potzger, K.; Krause, M.; Talut, G.; Helm, M.; Faßbender, J.; Zvyagin, S. A.; Wosnitza, J.; Schmidt, H.  
**Origin of the ferromagnetism in defective TiO<sub>2</sub> single crystals**  
*International Conference on Magnetism, 26.-31.07.2009, Karlsruhe, Germany*
166. Zhou, S.; Potzger, K.; Xu, Q.; Shalimov, A.; Schmidt, H.; Helm, M.; Faßbender, J.  
**Granular magnetic ZnO: Structure, magnetism and transport properties**  
*Magnetism Meets Semiconductors: Spin Phenomena in Heterostructures and Novel Materials, 5.-7.01.2009, Bad Honnef, Germany*
167. 5<sup>th</sup> International School and Conference on Spintronics and Quantum Information Technology, 4.-11.07.2009, Krakow, Poland
168. Zhou, S.; Xu, Q.; Hartmann, L.; Mücklich, A.; Helm, M.; Biehne, G.; Hochmuth, H.; Lorenz, M.; Grundmann, M.; Schmidt, H.  
**ZnO-based magnetic tunnel junctions**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
169. Zhou, S.; Xu, Q.; Potzger, K.; Talut, G.; Faßbender, J.; Vinnichenko, M.; Grenzer, J.; Helm, M.; Hochmuth, H.; Lorenz, M.; Grundmann, M.; Schmidt, H.  
**Room temperature ferromagnetism in carbon-implanted ZnO**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
170. Zschintzsch, M.; Jeutter, N. M.; Borany, J. von; Mücklich, A.  
**Reactive magnetron sputtering of (GeO<sub>x</sub>-SiO<sub>2</sub>) superlattices for nanocrystal synthesis**  
*DPG Frühjahrstagung 2009 der Sektion Kondensierte Materie, 22.-27.03.2009, Dresden, Germany*
171. E-MRS 2009 Spring Meeting, 8.-12.06.2009, Strasbourg, France

## Lectures / Talks

1. Bischoff, L.  
**Application of focused ion and electron beams in materials research**  
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