

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**  
*Symposium at Imdea Nanociencia, 4.11.2009, Madrid, Spain*
2. Kolloquiumsvortrag am Leibniz Institut für Oberflächenmodifizierung Leipzig, 10.12.2009, Leipzig, Germany
3. Brauer, G.  
**Positron annihilation spectroscopy in connection with activities towards p-type doping of ZnO**  
*Seminar at University of Orissa, Institute of Physics, 16.01.2009, Bhubaneswar, India*
4. Brauer, G.  
**Characterisation of ZnO single crystals - A challenge to positron annihilation spectroscopy**  
*Seminar am Institut für Kristallzüchtung Berlin, 17.08.2009, Berlin, Germany*
5. Seminar at Charles University Prague, 2.11.2009, Prague, Czech Republic
6. Eng, L. M.; Grafström, S.; Seifert, G.; Gemming, S.  
**Polarisationsinduzierte Oberflächenfunktionalität an Ferroelektrika**  
*Abschlusskolloquium SPP 1157 „Integrierte elektrokeramische Funktionsstrukturen „ 21.-22.09.2009, Bonn, Germany*

7. Erbe, A.  
**Capped colloidal particular: A model system for spin arrangements**  
*Workshop SPP 1296 "Heterogene Keim- und Mikrostrukturbildung", 13.-14.10.2009, Bayreuth, Germany*
8. Faßbender, J.  
**Künstliche magnetische Materialien durch Nanostrukturierung**  
*Kolloquiumsvortrag, Institut für Physik, Universität Mainz, 16.02.2009, Mainz, Germany*
9. Faßbender, J.  
**Nanomagnets - Created and tailored by ions**  
*Forschungsseminar, Institut für Physik, HU Berlin, 13.05.2009, Berlin, Germany*
10. SFB 668 - Kolloquium „Magnetismus vom Einzelatom zur Nanostruktur“, Institut für Angewandte Physik und Zentrum für Mikrostrukturforschung der Universität Hamburg, 16.06.2009, Hamburg, Germany
11. Kolloquiumsvortrag Fachbereich Physik, Universität Paderborn, 2.07.2009, Paderborn, Germany
12. Gemming, S.  
**Unusual transport phenomena in nanostructured materials**  
*NanoSeminar, 5.02.2009, Dresden, Germany*
13. Gemming, S.  
**Modelling electronic and transport properties in ferroic devices**  
*Fraunhofer IWM - Seminarreihe zur Materialforschung, 13.02.2009, Freiburg, Brsg., Germany*
14. Gemming, S.  
**Transport through nanostructures**  
*Sächsisches Landesseminar Theoretische Chemie, 26.02.2009, Leipzig, Germany*
15. Gemming, S.  
**Simulation of bone replacement materials**  
*Seminar "Topical Problems in Theoretical Physics", TU Chemnitz, 16.12.2009, Chemnitz, Germany*
16. Gemming, S.  
**Multi-scale approaches for structure and conductivity of complex materials**  
*Colloquium on Multi-Scale Modeling, 4.05.2009, Vienna, Austria*
17. Gemming, S.  
**Density-functional theory in materials science**  
*FZD Theory Seminar Series, 17.12.2009, Dresden-Rossendorf, Germany*
18. Grebing, J.; Dietsche, R.; Ganteför, G.; Kirchner, T.; Scheer, E.  
**Electronic transport measurements on Si<sub>4</sub> clusters**  
*Clustertreffen 2009, 4.-9.10.2009, Herzogenhorn, Schwarzwald, Germany*
19. Grenzer, J.  
**X-ray investigations off nanostructures manufactured by focused ion beam techniques**  
*Seminar, Charles University Prague, 6.01.2009, Prague, Czech Republic*
20. Helm, M.  
**Nanometrologie für die Nanoelektronik**  
*Talk at BMBF Cluster of Excellence Meeting „Cool Silicon“, 6.05.2009, Dresden, Germany*
21. Helm, M.  
**Solid state spectroscopy using an infrared free-electron laser**  
*Colloquium at Institute for Molecules and Materials, Radboud University, 10.11.2009, Nijmegen, The Netherlands*
22. Helm, M.  
**Infrared solid state spectroscopy using a free-electron laser**  
*Seminarvortrag bei ANKA, 2.03.2009, Karlsruhe, Germany*
23. Helm, M.  
**Silicon based light emitters: From rare-earth doped MOS devices to resonant-cavity LEDs**  
*Seminar at van der Waals - Zeeman Institute, University Amsterdam, 27.03.2009, Amsterdam, The Netherlands*
24. Hubrich, R.  
**Radiale Moden in THz-Feldern**  
*Drittes THz-Frischlinge-Meeting 2009, 7.-10.06.2009, Berlin, Germany*
25. Keller, A.; Facsko, S.; Möller, W.  
**Self-organized ripple patterns by ion erosion - Experiment, theory, and application**  
*Seminar, Institute of Solid State Electronics, TU Vienna, 16.06.2009, Vienna, Austria*

26. Kosmata, M.  
**Ion beam analysis with sub nanometer depth resolution**  
*4<sup>th</sup> Graduate Students Seminar, 16.-18.09.2009, Krögis, Germany*
27. Lenz, K.  
**Spin dynamics in ferromagnets: Gilbert damping vs. two-magnon scattering**  
*Talk at the Physics Seminar Series, 12.10.2009, Colorado Springs, USA*
28. *Talk at the Electromagnetics Group Seminar, 13.10.2009, Boulder, Colorado, USA*
29. Lenz, K.  
**Tailoring magnetic properties using ion beam irradiation**  
*Division Seminar of the Condensed Matter Theory Group, 15.10.2009, Irvine, CA, USA*
30. Lenz, K.; Marko, D.; Strache, T.; Faßbender, J.  
**Spin wave excitations: coupling and damping effects in ultrathin films**  
*448. WE-Heraeus-Seminar: Excitement in Magnetism: Spin-dependent Scattering and Coupling of Excitations in Ferromagnets, 22.-25.11.2009, Ringberg, Germany*
31. Liedke, B.; Heinig, K.-H.; Möller, W.  
**Modelling of ion beam mixing with phase separation - Simulation of damage formation and thermally activated relaxation**  
*Seminar at Department of Physics, University of Bialystok, 21.11.2009, Bialystok, Poland*
32. Liedke, B.; Heinig, K.-H.; Möller, W.  
**Atomistic description of ion-induced surface patterning - Role of surface / bulk defects and viscous flow**  
*Meeting DFG Forschergruppe 845 "Selbstorganisierte Nanostrukturen durch niederenergetische Ionenstrahlerosion", 31.03.2009, Köln, Germany*
33. Merchel, S.; Bichler, M.; Sterba, J. H.  
**On the reliability of target element data for cosmogenic nuclide exposure dating**  
*Seminar Activation Analysis and Gamma-Spectroscopy, 25.-27.02.2009, TU Vienna, Austria*
34. Merchel, S.; Grambole, D.; Grötzschel, R.; Munnik, F.; Neelmeijer, C.  
**Accelerator mass spectrometry (AMS) and ion beam analysis (IBA) with the new 6 MV accelerator at FZ Dresden-Rossendorf**  
*Seminar Activation Analysis and Gamma-Spectroscopy, 25.-27.02.2009, TU Vienna, Austria*
35. Merchel, S.  
**Terrestrial cosmogenic radionuclides and the new AMS facility DREAMS**  
*Seminar über aktuelle Themen aus Kosmochemie und Astrophysik, 06.05.2009, Universität Mainz, Germany*
36. Merchel, S.; Munnik, F.  
**Beschleunigermassenspektrometrie und Ionenstrahlanalytik**  
*Seminarreihe "Moderne analytische Methoden der Physik", 14.07.2009, Berlin, Germany*
37. Merchel, S.  
**Cosmogenic nuclides: Endless opportunities?**  
*GeoKolloquium - Geowissenschaftliches Kolloquium der Fakultät für Geowissenschaften, Geotechnik & Bergbau, TU Bergakademie Freiberg, 8.04.2009, TU Bergakademie Freiberg, Germany*
38. Möller, W.  
**Nanostructures by ion-driven self-organisation: Can ions induce order?**  
*Colloquium at Shanghai Institute of Microsystems and Information Technology, 5.05.2009, Shanghai, China*
39. Möller, W.  
**Self-organized nanostructures by ion irradiation**  
*Polymer-Physics-Seminar, Charles University Prague, 10.11.2009, Prague, Czech Republic*
40. Munnik, F.; Merchel, S.  
**Ion beam analysis (IBA) for thin film studies**  
*Seminarreihe "Moderne analytische Methoden der Physik", 14.07.2009, Berlin, Germany*
41. Neelmeijer, C.  
**Zerstörungsfreie Materialanalyse an Kunstwerken**  
*Gastvorlesung, 24.02.2009, HfBK Dresden, Germany*
42. Neidhardt, J.  
**Atomic billiard - Materials science using hyperthermal ions**  
*Lecture, 16.11.2009, University Linköping, Sweden*
43. Odor, G.; Liedke, B.; Heinig, K.-H.  
**Mapping of 2+1 dimensional KPZ growth onto driven lattice gas model of dimers**

*International Seminar on "Many-body systems far from equilibrium: Fluctuations, slow dynamics and long-range interactions", 16.-27.02.2009, Dresden, Germany*

44. Rebohle, L.  
**Rare earth implanted MOS light emitting devices**  
*Seminar Talk, Department of Physics, University of Hong Kong 8.05.2009, Hong Kong, China*
45. Rebohle, L.  
**Si-based light emitters: How bright is the future?**  
*Seminar Talk, Department of Electronics, University of Barcelona, 29.09.2009, Barcelona, Spain*
46. Schneider, H.  
**Time-resolved infrared and terahertz spectroscopy of semiconductor quantum structures**  
*Seminar, Institute of Optics and Precision Mechanics, Xi'an University of Technology, 22.06.2009, Xi'an, China*
47. Schneider, H.  
**Ultrafast infrared and terahertz spectroscopy of semiconductor quantum structures**  
*Physics Colloquium, Shanghai Jiao Tong University, 30.12.2009, Shanghai, China*
48. Schneider, H.  
**Infrared and THz spectroscopy of semiconductor quantum structures with modelocked tabletop and free-electron lasers**  
*Seminar, Rensselaer Polytechnic Institute, 14.09.2009, Troy NY, USA*
49. 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*
50. Skorupa, W.; Anwand, W.; Gebel, T.  
**Energy pulse modification of electronic materials: from electronics via photonics to other advanced materials**  
*Seminar at the University of Hong Kong, 8.05.2009, Hong Kong, China*
51. Zhou, J.; Facsko, S.; Keller, A.; Möller, W.  
**Ion sputtering of Si surfaces at normal incidence: roughening versus smoothening**  
*Meeting DFG-Forschergruppe 845 "Selbstorganisierte Nanostrukturen durch niederenergetische Ionenstrahlerosion", 31.03.2009, Köln, Germany*

## PhD Theses

1. Berndt, M.  
**Phase separation in carbon: transition metal nanocomposite thin films**  
*TU Dresden, 21.12.2009*
2. Beyer, V.  
**Nanocrystals for nanodot memories - Ion beam synthesis and electrical studies**  
*Leibniz Universität Hannover, 11.12.2009*
3. Güttler, D.  
**An investigation of target poisoning during reactive magnetron sputtering**  
*TU Dresden, 12.03.2009, Wissenschaftlich-Technische Berichte FZD-515 (2009)*
4. Heller, R.  
**Wechselwirkung langsamer hochgeladener Ionen mit der Oberfläche von Ionenkristallen**  
*TU Dresden, 30.06.2009, Wissenschaftlich-Technische Berichte FZD-520 (2009)*
5. Keller, A.  
**Evolution of ion-induced ripple patterns - Anisotropy, nonlinearity, and scaling**  
*TU Dresden, 8.06.2009*
6. Ou, X.  
**Defect engineering in SIMOX processing**  
*Shanghai Institute of Microsystems and Information Technology, Chinese Academy of Science, Shanghai, China, 1.07.2009*
7. Potfajova, J.  
**Silicon based microcavity enhanced light emitting diodes**  
*TU Dresden, 15.12.2009, Wissenschaftlich-Technische Berichte FZD-526 (2009)*