

Stand 12.11.2010

## Publications 2010

**C. Greulich, J. Diendorf, T. Simon, G. Eggeler, M. Epple, M. Köller**

*Uptake and intracellular distribution of silver nanoparticles in human mesenchymal stem cells*

Acta Biomaterialia 7, 347 (2011)

[DOI: [10.1016/j.actbio.2010.08.003](https://doi.org/10.1016/j.actbio.2010.08.003)]

**C. Weis, B. Krumme, H. C. Herper, F. Stromberg, C. Antoniak, A. Warland, P. Entel, W. Keune and H. Wende**

*Magnetic properties of ultrathin Fe<sub>3</sub>Si films on GaAs(001)*

J. Phys.: Conf. Ser. 200, 072105 (2010)

[DOI: [10.1088/1742-6596/200/7/072105](https://doi.org/10.1088/1742-6596/200/7/072105)]

**H. Wende and C. Antoniak**

*X-Ray Magnetic Dichroism*

Springer Proceedings Physics 133, 145 (2010)

[DOI: [10.1007/978-3-642-04498-4\\_5](https://doi.org/10.1007/978-3-642-04498-4_5)]

**G. Schierning, T. Claudio, R. Theissmann, N. Stein, N. Petermann, A. Becker, J. Denker, H. Wiggers, R. P. Hermann, R. Schmechel**

*Nanocrystalline silicon compacted by spark-plasma sintering: Microstructure and thermoelectric properties*

Mater. Res. Soc. Symp. Proc. 1267, 1 (2010)

[DOI: [10.1557/PROC-1267-DD01-09](https://doi.org/10.1557/PROC-1267-DD01-09)]

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J. Phys. D: Appl. Phys. 43, 474007 (2010), 1 (2010)

[DOI: [10.1088/0022-3727/43/47/474007](https://doi.org/10.1088/0022-3727/43/47/474007)]

**J. Nannen, T. Kümmell, M. Bartsch, K. Brunner, G. Bacher**

*Ultrafast electrical charging and discharging of a single InGaAs quantum dot*

Appl. Phys. Lett. 97, 173108 (2010)

[DOI: [10.1063/1.3505358](https://doi.org/10.1063/1.3505358)]

**Wen Lei, Christian Notthoff, Jie Peng, Dirk Reuter, Andreas Wieck, Gabriel Bester, Axel Lorke**

*"Artificial Atoms" in Magnetic Fields: Wave-Function Shaping and Phase-Sensitive Tunneling*

Phys. Rev. Lett. 105, 176804 (2010)

[DOI: [10.1103/PhysRevLett.105.176804](https://doi.org/10.1103/PhysRevLett.105.176804)]

**Jens Theis, Martin Geller, Axel Lorke, Hartmut Wiggers, Andreas Wieck and Cedrik Meier**

*Electroluminescence from silicon nanoparticles fabricated from the gas phase*

Nanotechnology 21, 455201 (2010)

[DOI: [10.1088/0957-4484/21/45/455201](https://doi.org/10.1088/0957-4484/21/45/455201)]

**Ulrich Hagemann, Matthias Timmer, David Krix, Peter Kratzner, and Hermann Nienhaus**

*Electronic excitations in magnesium epitaxy: Experiment and theory*

Phys. Rev. B 82, 155420 (2010)

[DOI: [10.1103/PhysRevB.82.155420](https://doi.org/10.1103/PhysRevB.82.155420)]

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*The ferromagnetic shape memory system Fe-Pd-Cu*

Acta Materialia 58, 5949 (2010)

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*Spin torque dynamics with noise in magnetic nanosystems*

Phys. Rev. B 82, 144404 (2010)

[DOI: [10.1103/PhysRevB.82.144404](https://doi.org/10.1103/PhysRevB.82.144404)]

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*Heat flux measurements in stagnation point methane/air flames with thermographic phosphors*

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*The influence of surface composition of nanoparticles on their interactions with serum albumin.*

ChemPhysChem 11, 3093 (2010)

[DOI: [10.1002/cphc.201000174](https://doi.org/10.1002/cphc.201000174)]

**E. Schuster, R. A. Brand, F. Stromberg, F.-Y. Lo, A. Ludwig, D. Reuter, A. D. Wieck, S. Hövel, N. C. Gerhardt, M. R. Hofmann, H. Wende, and W. Keune**

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*[cis-(1,3-Diene)(2)W(CO)(2)] Complexes as MOCVD Precursors for the Deposition of Thin Tungsten - Tungsten Carbide Films*

Chemical Vapor Deposition 16, 239 (2010)

[DOI: [10.1002/cvde.201006852](https://doi.org/10.1002/cvde.201006852)]

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*Conductance of DNA molecules: Effects of decoherence and bonding*

Phys. Rev. B 82, 125125 (2010)

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*Probing the exchange field of a quantum-dot spin valve by a superconducting lead*

Phys. Rev. B 82, 094514 (2010)

[DOI: [10.1103/PhysRevB.82.094514](https://doi.org/10.1103/PhysRevB.82.094514)]

**Haibo Zhaoa, F. Einar Krus, Chuguang Zhenga**

*A differentially weighted Monte Carlo method for two-component coagulation*

Journal of Computational Physics 229, 6931 (2010)

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Phys. Status Solidi A 1–4, 1918 (2010)

[DOI: [10.1002/pssa.200925489](https://doi.org/10.1002/pssa.200925489)]

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*Electronic structure and lattice dynamics of the magnetic shape-memory alloy Co<sub>2</sub>NiGa*

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New J. Phys. 12 083028 (2010)

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J. Chem. Phys. 133, 054505 (2010)

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*An injectable paste of calcium phosphate nanorods, functionalized with nucleic acids, for cell transfection and gene silencing*

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Physica E: Low-dimensional Systems and Nanostructures 42, 2471 (2010)

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**T. Nabbefeld, C. Wiethoff, F.-J. Meyer zu Heringdorf, and M. Horn-von Hoegen**

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