

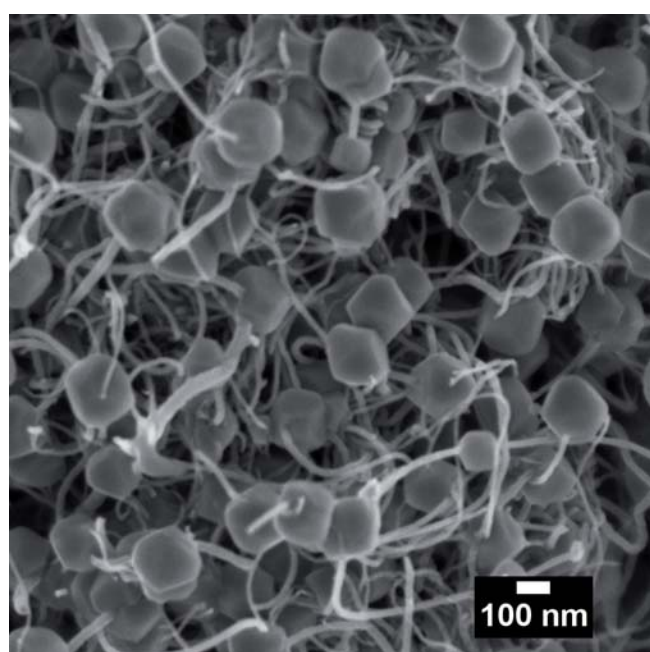


NanoDay 2017

Thursday 28.09.2017

Talks: Appelstr. 4, 30167 Hanover, Multimedia Lecture Hall,
Technical Computer Science (Building 3703)
Poster Session: Schneiderberg 39, 30167 Hannover, Foyer,
Laboratory of Nano and Quantum Engineering (Building 3430)

Program



SEM image showing a novel composite of an insulating Zr-MOF growing on carbon nanotubes.
(H. Schulze / ACI)

09:00 Greetings

09:15 - 10:45 Session I (in the multimedia lecture hall)

Self-assembling Formation of Twisted Bilayer Graphene

Johannes Rode

Institute for Solid State Physics, Group Haug

Deposition and Characterization of ALD Al₂O₃ and HfO₂

Liu Hao

Laser Zentrum Hannover e. V., Laser Components Department,
Group Ristau

Carbon-MOF composites: A way to electronic applications of metal-organic frameworks

Hendrik Schulze

Institute of Inorganic Chemistry, Group Behrens

10:45 Conference photo

10:50 - 11:20 Coffee break

11:20 - 12:20 Session II

Ultracold Molecules

Torben Schulze

Institute of Quantum Optics, Group S. Ospelkaus

Ultrashort Pulse Laser Structuring - a new approach to designing electrodes?

Karsten Lange

Institute of Physical Chemistry and Electrochemistry, Group Caro

12:30 - 13:30 Lunch break

13:30 - 15:00 Poster Session (in the LNQE research building)

15:00 - 16:30 Session III

A simulative study on nucleation, growth and aggregation of metal oxide nanoparticles based on experimental insights of the nonaqueous sol-gel method

Pierre Stolzenburg

Institute for Particle Technology (Tu Braunschweig),
Group Garnweitner

Improvement of the SRH Bulk Lifetime upon Formation of n-Type POLO Junctions for 25% Efficient Si Solar Cells

Jan Krügener

Institute of Electronic Materials and Devices, Group Osten

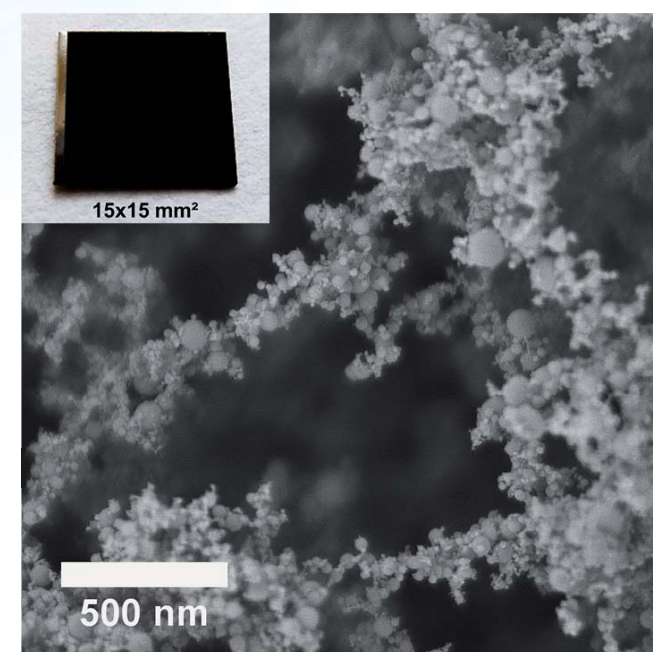
Spin and reoccupation dynamics in single quantum dots: Noise beyond the fluctuation-dissipation theorem

Jens Hübner

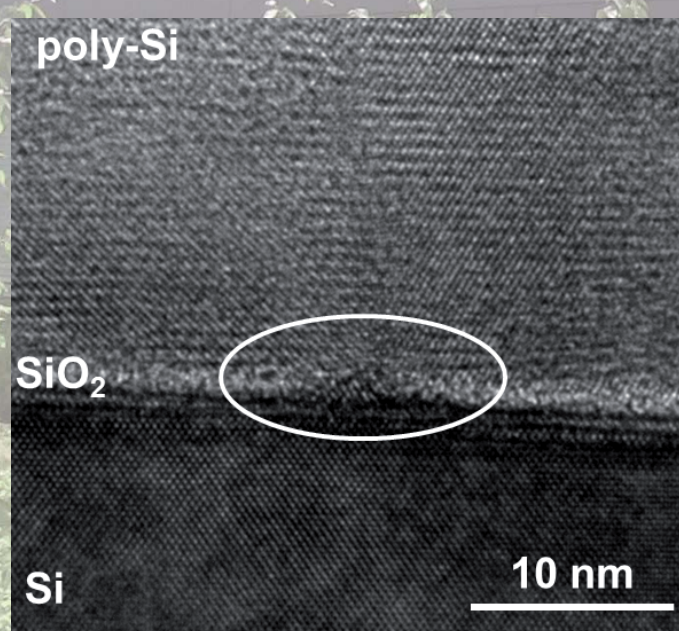
Institute for Solid State Physics, Group Oestreich

16:30 - 16:45 Award ceremony of the poster prize

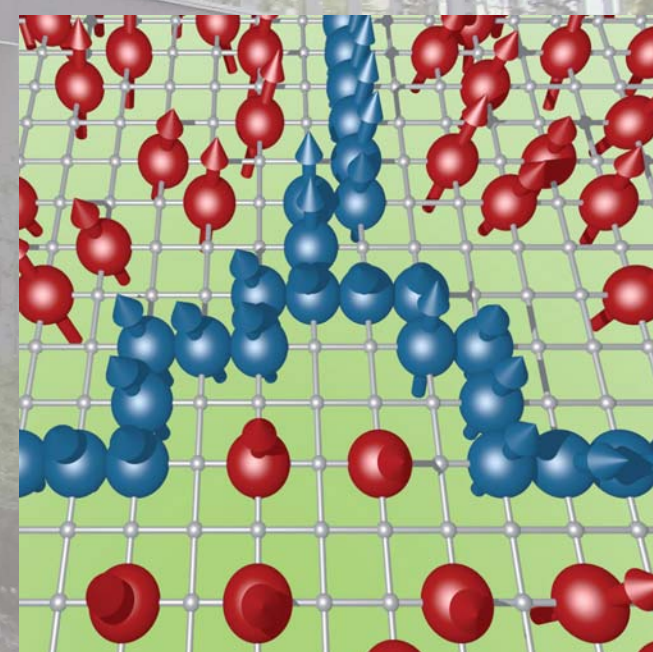
Follow-up: Get-together in the LNQE-research building to conclude the NanoDay 2017.



SEM image of a Pt electrode designed by ultrashort laser pulse structuring. Inset: Photograph of the Pt electrodes after laser treatment.
(K. Lange, J. Caro / PCI)



TEM cross section micrograph of a carrier-selective polysilicon on oxide (POLO) junction. Within the encircled area a region of direct contact between the silicon wafer and the poly-Si is visible. This region is essential for the carrier transport across the junction.
(D. Tetzlaff / MBE)



Spin dynamics of electrons at the metal-to-insulator transition (MIT).
(J. Hübner / FKP)

