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13th Annual Conference of the
Leipzig School of Natural Sciences –
Building with Molecules and Nano-objects
Graduate School BuildMoNa
Monday, 8 March and Tuesday, 9 March 2021

Online conference

Preliminary Agenda

Monday, 8 March 2021

- 08:30 PI meeting
- 09:40 **Prof. Dr. Marius Grundmann**
Welcome address
- 09:45 **Prof. Dr. Claudia Schnohr** (chair: Oliver Lahr)
Universität Leipzig
Atomic-scale structure of complex semiconductors
- 10:45 *Break*
- 11:00 **Prof. Dr. Tanja Gulder** (chair: Ivana Predarska)
Universität Leipzig
*Combining the best of both worlds:
Bioinspired methods for directed halogenations*
- 12:00 **Group photo shooting** (*Screenshot*)
- 12:30 *Lunch break*
- 13:30 **Poster session**
-16:00
- 16:00 *Break*



- 16:15 **Ceremony for BuildMoNa Awards 2021**
- 17:00 **Prof. Dr. Christian Hackenberger** (chair: Tobias Fischer)
Humboldt Universität zu Berlin and Leibniz-Forschungsinstitut für Molekulare
Pharmakologie (FMP)
*The power of chemoselectivity:
Functional protein-conjugates for intra- and extracellular targeting*
- 18:10 Prospective end

Tuesday, 9 March 2021

- 9:00 **Prof. Dr. Regine von Klitzing** (chair: Alexander Fischer)
TU Darmstadt
*Swelling behaviour and mechanical properties of multiresponsive polymer
coatings*
- 10:00 **Dr. Agnes Schulze** (chair: Florian Harth)
Leibniz Institute for Surface Engineering (IOM)
Surface engineering of polymer membranes for use in water treatment
- 11:00 *Break*
- 11:15 **Talks of Doctoral Candidates Session I** (chair: Veronika Riedl)
1. Astrid Kupferer
*Relaxation reduces stress: effects of low energy ion implantation on
amorphous TiO₂ nanotube arrays*
 2. Patrick Irmisch
*Modeling DNA-strand displacement reactions in the presence of base pair
mismatches*
 3. Clemens Scheuner
*Detection enhancement for nitrogen vacancy centres using 2D diamond
cavities*
 4. Liridona Useini
*Synthesis of carboranyl analogues of the non-steroidal anti-inflammatory
drug mefenamic acid*



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5. Reike Clauss
Two heads are better than one: heterobimetallic complexes as homogeneous catalysts

12:30 *Lunch break*

13:15 **Talks of Doctoral Candidates Session II** (chair: Ken Luca Abel)

6. Max Grellmann
Femtosecond pump-probe spectroscopy on small cerium clusters ($Ce_{n \leq 10}$)
7. Fabian Schöppach
Plasma treatment for enhancing electrical devices based on In_2O_3
8. Xiaoya Su
Hot Brownian motion in short time scales
9. Tillmann Stralka
Copper iodide thin films: Dynamic AFM studies of local electrical properties
10. Evgeny Krüger
Time-resolved luminescence of CuI microwires
11. Antonia Welk
Zinc magnesium oxynitride: material design, carrier transport and device applications

14:45 *Break*

15:00 **Talks of Doctoral Candidates Session III** (chair: Jan Dirks)

12. Volker Eilrich
Versatile chemistry of phosphorus-rich compounds
13. Oliver Herrfurth
Ring-structure formation of hot carriers in ZnO studied with time-resolved imaging ellipsometry



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14. Zeno Fickenscher
Synergistic catalysis in heterobimetallic complexes for homogeneous Carbon Dioxide Hydrogenation
15. Anna Hassa
Growth window, solubility limit and material properties of κ -(Al_xGa_{1-x})₂O₃ PLD thin films
16. Benjamin Hoffmann
Action spectroscopy on single nanoparticles in the gas phase

16:15 *Break / Jury meeting*

16:45 **Awards Ceremony for Doctoral Candidates' talks**

17:00 **Meeting of the Doctoral Candidates**

17:30 End of conference