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Research Academy Leipzig



**15<sup>th</sup> Annual Conference of the**  
Leipzig School of Natural Sciences –  
Building with Molecules and Nano-objects  
**Graduate School BuildMoNa**  
**Monday, 20 March and Tuesday, 21 March 2023**

Venue:

Arthur Hantzsch Lecture Hall, Faculty of Chemistry and Mineralogy,  
Johannisallee 29, 04103 Leipzig, Germany

## Agenda

### Monday, 20 March 2023

- 09:00 Prof. Dr. Tilo Pompe  
Leipzig University  
*Welcome address*
- 09:05 Prof. Inti Sodemann Villadiego (*Chair: Sebastian Bar*)  
Leipzig University  
*The Floquet Fermi Liquid*
- 10:05 *Coffee break, refreshments*
- 10:30 Prof. André Anders (*Chair: Jonas Naumann*)  
Leipzig University/ Leibniz Institute of Surface Engineering (IOM)  
*Engineering of surfaces with plasmas and ion beams:  
A historical perspective on physics and applications*
- 11:30 Group photo shooting
- 11:45 *Lunch*
- 13:00 Talks of Doctoral Candidates (*Chair: Saral Baweja*)
1. Jawinski, Tanja  
*Highly crystalline  $\text{In}_2\text{S}_3$  thin films epitaxially grown on  
sapphire substrates: A potential candidate for intermediate  
band solar cells*



2. Dethloff, Christiane

*Physical properties of  $Ni_xCu_{x-1}$  thin films deposited by magnetron co-sputtering*

3. König, Nils

*Facile approach to phosphole-based aggregation-induced emission luminogens*

4. Hildebrandt, Ron

*Phonons – what are they good for and how to measure them via Raman spectroscopy?*

5. Henn, Sebastian

*Strong coupling of Bloch surface wave polaritons in ZnO above room temperature*

14:15 Coffee break, refreshments

14:45 Talks of Doctoral Candidates (Chair: Ivana Predarska)

6. Ye, Zhuolin

*Optimal finite-time heat engines under constrained control*

7. Milewski, Max

*Carboranyl phosphines and dendrimers as electron-deficient scaffolds for ligand design*

~~8. Schöppach, Fabian~~

~~*Processing strategies for indium-oxide field-effect transistors*~~

15:30 Ceremony for BuildMoNa Awards 2023

16:00 Poster session

17:30 Dinner buffet (and continuation of poster session)



**Tuesday, 21 March 2023**

8:15 - 9:15 PI Meeting

9:30 Prof. Kevin Pagel (Chair: Patrick Irmisch)  
Freie Universität Berlin  
*Mass spectrometry-based techniques to elucidate the sugar code*

10:30 *Coffee break, refreshments*

11:00 Prof. Stefanie Dehnen (Chair: Liridona Useini)  
Karlsruhe Institute of Technology (KIT)  
*Cluster compounds: Between molecular aesthetics and macroscopic functionality*

12:00 *Lunch*

13:00 Talks of Doctoral Candidates (Chair: Alexander Mohr)

9. Ueberham, Lea  
*Synthesis of carborane-based ligands for theranostics*

10. List, Moritz  
*A cytosolic delivery system for therapeutic peptides based on CMKLR1-mediated endocytosis*

11. Yu, Jingjing  
*Ultrawide bandgap cubic spinel  $Zn_2GeO_4$  semiconductor epitaxial thin films grown by pulsed laser deposition*

12. Staab, Lennart  
*Stability and thermoelectric properties of copper chalcogenide based composites with mobile atoms*

13. Fanselow, Benjamin  
*Multiple thermophoretic particle trapping*

14:15 *Coffee break, refreshments*

14:45 Talks of Doctoral Candidates (Chair: Fabian Schöppach)

~~14. Niavarani, Zahra  
*Synthesis of molecularly imprinted PES membranes for selective removal of 17 $\beta$ -estradiol from water*~~



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15. Taut, Josef

*Paramagnetic lanthanide complexes - Protein structure analysis via NMR pseudo contact shifts*

16. Petersen, Clemens

*Analysis of PLD-thickness distributions of group III sesquioxides for combinatorial synthesis*

17. Kazimir, Aleksandr

*Metallo drugs against breast cancer: Combining tamoxifen as vector with coordination chemistry*

18. Böhner, Dennis

*Bio-inspired antimicrobial peptide coating for biomaterials*

16:00 Jury meeting

16:00 Coffee break, refreshments

16:30 Awards Ceremony for Doctoral Candidates' talks