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Employment History

ENB¹ Junior Research Group Leader University of Bayreuth, Germany	since 01/2018
Principal investigator University of Bayreuth, Germany	03/2017 – 12/2017
Feodor-Lynen postdoctoral fellow University of California, Berkeley, CA, USA Lawrence Berkeley National Laboratory, CA, USA Advisor: Prof. Jeff Neaton	02/2015 – 02/2017
Postdoctoral fellow University of Bayreuth, Germany Advisor: Prof. Stephan Kümmel	10/2013 – 01/2015

Education History

PhD Physics (summa cum laude) “Structural and electronic properties of transition metal nanoalloys and magnetic compounds” Advisor: Prof. Stephan Kümmel	University of Bayreuth 01/2010 – 09/2013
ENB Study Program Elitenetzwerk Bayern (ENB) Study Program Macromolecular Science	University of Bayreuth 10/2007 – 11/2012
Diploma Physics “Investigation of geometry and electronic structure of gold-platinum nanoparticles” Advisor: Prof. Stephan Kümmel	University of Bayreuth 10/2004 – 12/2009

Academic Visits and International Experience (pre-PhD)

Helmholtz Center for Materials and Energy Collaboration with Prof. Tobias Lau	Berlin, Germany 03/2012 – 09/2013
Tampere University of Technology Collaboration with Prof. Adam Foster	Tampere, Finland 02/2011 – 03/2011

1 Elite Network Bavaria: A funding program by the state of Bavaria for excellent students and junior researchers

Awards, Memberships and Third-party Funding

Member of Young Academy of Europe	since 10/2018
Research Award of GRK 1640, University of Bayreuth “Photophysics of synthetic and biological multichromophoric systems”	12/2017
International Junior Research Group funded by Elite Netzwerk Bavaria	since 01/2018
Principal Investigator in SFB 840, University of Bayreuth “From particulate systems to mesotechnology”	since 06/2017
WiN UBT travel grant, University of Bayreuth for conference Light Harvesting Processes 2017	03/2017
Feodor-Lynen postdoctoral fellowship awarded by the Alexander von Humboldt Foundation	02/2015 – 01/2017
Dissertation Award of the City of Bayreuth	11/2013
Max Weber fellowship of the Free State of Bavaria coordinated by Studienstiftung des Deutschen Volkes	10/2008 – 12/2009

Teaching Experience

Lectures and seminars

Lecture Concepts of Physics ENB Study Program Biological Physics	10/2019 –
Advanced Seminar Current questions and methods in biophysics (M.Sc. Physics)	10/2019 –
Advanced Seminar Novel hybrid semiconductors for optoelectronics: Perspectives from theory and experiment (M.Sc. Physics)	10/2018 – 01/2019
Lecture Electronic excitations of solids with many-body perturbation theory (M.Sc. Physics)	04/2018 – 08/2018
Practical Course Energy-transfer in light-harvesting systems	02/2018

ENB Study Program Biological Physics

Lecture 10/2017 – 02/2018

Concepts of Physics

ENB Study Program Biological Physics

Advanced Seminar 10/2017 – 02/2018

Current questions and methods in theoretical biophysics

(M.Sc. Physics)

Practical course for lecture 04/2017 – 08/2017

Electrodynamics (B.Sc. Physics)

as teaching assistant

Undergraduate and graduate teaching assistant 2006 – 2013

Practical courses in classical mechanics, introductory and advanced quantum mechanics and solid state physics

Supervision

PhD theses

Sabrina Kroll

since 01/2019

Zohreh Hashemi

since 06/2018

Raisa-Ioana Biega

since 09/2017

B.Sc. theses

Sonja Krach

since 08/2019

Paula Hofmann

since 09/2019

Vera Forster (with Prof. Stephan Kümmel)

06/2012 – 09/2012

Others

Guest student Rui Shi (with Prof. Stephan Kümmel)

10/2017 – 03/2018

Undergraduate project Cindy Zheng (with Prof. Jeff Neaton)

05/2016 – 12/2016

Summary of Publication and Presentation Record

Total of 18 peer-reviewed publications (+1 submitted), 10 of which are independent of Ph.D. advisor, 8 invited (+1 scheduled) and ~16 contributed talks (+1 scheduled) at conferences, workshops and seminars.

h-index (Google Scholar): 12

Most important publications:

1. **L. Leppert**, S. E. Reyes-Lillo, J. B. Neaton, **Electric Field- and Strain-Induced Rashba Effect in Hybrid Halide Perovskites**, J. Phys. Chem. Lett. **7**, 3683 (2016).

Number of citations: 40

2. S. Y. Leblebici, **L. Leppert**, Y. Li, S. E. Reyes-Lillo, S. Wickenburg, E. Wong, J. Lee, M. Melli, D. Ziegler, D. K. Angell, D. F. Ogletree, P. D. Ashby, F. M. Toma, J. B. Neaton, I. D. Sharp, A. Weber-Bargioni, **Facet-dependent photovoltaic efficiency variations in single grains of hybrid halide perovskite**, Nature Energy **1**, 16093 (2016).

Number of citations: 164

3. **L. Leppert**, R. Q. Albuquerque, A. S. Foster, S. Kümmel, **Interplay of Electronic Structure and Atomic Mobility in Nanoalloys of Au and Pt**, *J. Phys. Chem. C* **117**, 17268-17273 (2013).
Number of citations: 26