

Prof. Dr. Jana Zaumseil

Angewandte Physikalische Chemie

Universität Heidelberg

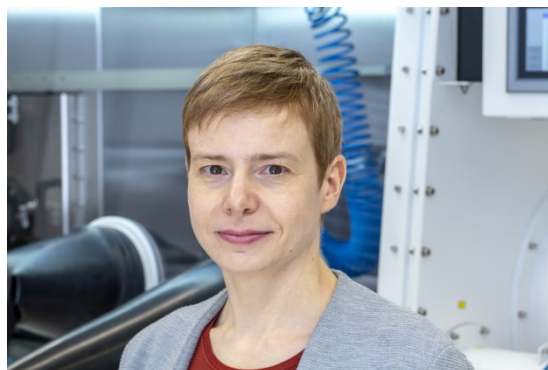
Im Neuenheimer Feld 253

69120 Heidelberg

Tel. +49 6221 54 - 5065

Email: zaumseil@uni-heidelberg.de

www.pci.uni-heidelberg.de/apc



EDUCATION & ACADEMIC CAREER

- Since 2014 Professor for Applied Physical Chemistry (W3)
Ruprecht-Karls-Universität Heidelberg, Germany
(co-opted by Faculty of Physics and Astronomy since 2016)
- 2009-2014 Professor for Nanoelectronics (W2), Department of Materials Science,
Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany
- 2007 - 2009 Postdoctoral Fellow (*Ugo Fano Named Postdoc Fellowship*)
Center for Nanoscale Materials, Argonne National Laboratory (USA)
- 2003 – 2007 PhD in Physics (*Gates Cambridge Trust Scholarship*)
University of Cambridge, Cavendish Laboratory, Cambridge (UK)
- 2002 – 2003 Research internship (*‘Dr. Jürgen Ulderup’ Scholarship*)
Bell Laboratories (Lucent Technologies), Murray Hill (USA)
- 1997 - 2002 Diplom (corresponding to *M.Sc.*) in Physical Chemistry (with highest distinction)
University of Leipzig (Germany)

AWARDS

- 2019 European Research Council Consolidator Grant (TRIFECTs, No. 817494, 2 M€)**
- 2015 Best Teaching Award in Chemistry at Heidelberg University (Physical Chemistry II, Lecture course, Bachelor)
- 2012 European Research Council Starting Grant (EN-LUMINATE, No. 306298, 1.5 M€)**
- 2010 Alfried-Krupp-Award for Young University Professors (1 M€)**
- 2009 EAM Excellence in Engineering Materials Award (750 k€)
- 2006 Gold Materials Research Society Graduate Student Award at MRS Spring Meeting 2006

SCHOLARSHIPS

- 2019 *JSPS BRIDGE Fellowship* (Visiting Fellow at RIKEN, Prof. Kato)
- 2012 *JSPS Fellowship* (Visiting Fellow at University of Osaka, Prof. Takeya)
- 2007 – 2009 *Ugo Fano Named Postdoc Fellowship*, Argonne National Laboratory (USA)
- 2004 – 2006 *Gates Cambridge Trust Scholarship*, University of Cambridge
- 1998 – 2002 Scholarship ‘Studienstiftung des deutschen Volkes e.V.’ (*German Academic Scholarship Foundation*)

INSTITUTIONAL RESPONSIBILITIES

- **Dean of the Faculty of Chemistry and Earth Sciences**, Heidelberg University (from Oct 2019)
- Fellow of the Max Planck School “*Matter to Life*” (<https://www.maxplanckschools.de/en/matter-to-life>)
- Vice-chair of Collaborative Research Center “*N-Heteropolycycles*” **SFB 1249** (since 2017)
- Executive Director of **Centre for Advanced Materials**, Heidelberg (<https://www.cam.uni-heidelberg.de/>) (2017 – 2019)
- Mentor for 18 scholars (undergraduate and graduate students) of the German Academic Scholarship Foundation (<https://www.studienstiftung.de/en/>) in Heidelberg (since 2016)
- Member of the Commission for Research and Strategy of Heidelberg University (since 2016)
- Academic Mentor Team NBB: Nanomaterial-Based Biosensors, BioMed X Innovation Center, Heidelberg, <https://bio.mx/research-teams/diagnostics/team-nbb-nanomaterial-based-biosensors/> (2016-2019)
- Editor for Materials of IOP Journal “Flexible and Printed Electronics” (since 2018)

10 MOST IMPORTANT PUBLICATIONS

In total over 90 publications (> 11,000 citations, h-index = 37, 4 book chapters)

Google Scholar Profile: <https://scholar.google.de/citations?user=80pi4SQAAAAJ&hl=de&oi=ao>

1. Berger, F. J.; Lüttgens, J.; Nowack, T.; Kutsch, T.; Lindenthal, S.; Kistner, L.; Müller, C. C.; Bongartz, L. M.; Lumsargis, V. A.; Zakharko, Y.; **Zaumseil, J.**
Brightening of Long, Polymer-Wrapped Carbon Nanotubes by sp^3 Functionalization in Organic Solvents. *ACS Nano* **2019**, 13, 9259.
2. Brohmann, M.; Berger, F. J.; Matthiesen, M.; Schießl, S. P.; Schneider, S.; **Zaumseil, J.**
Charge Transport in Mixed Semiconducting Carbon Nanotube Networks with Tailored Mixing Ratios. *ACS Nano* **2019**, 13, 7323.
3. Möhl, C.; Graf, A.; Berger, F. J.; Lüttgens, J.; Zakharko, Y.; Lumsargis, V.; Gather, M. C.; **Zaumseil, J.**,
Trion-Polariton Formation in Single-Walled Carbon Nanotube Microcavities. *ACS Photonics* **2018**, 5 (6), 2074.
4. Schneider, S.; Brohmann, M.; Lorenz, R.; Hofstetter, Y. J.; Rother, M.; Sauter, E.; Zharnikov, M.; Vaynzof, Y.; Himmel, H.-J.; **Zaumseil, J.**
Efficient N-Doping and Hole Blocking in Single-Walled Carbon Nanotube Transistors with 1,2,4,5-Tetrakis(Tetramethylguanidino)Benzene. *ACS Nano* **2018**, 12, 5895.
5. Graf, A.; Held, M.; Zakharko, Y.; Tropf, L.; Gather, M. C.; **Zaumseil, J.**, *Electrical pumping and tuning of exciton-polaritons in carbon nanotube microcavities.*
Nature Mater. **2017**, 16, 911. *Cover image (Sep 2017)*
6. Graf, A.; Tropf, L.; Zakharko, Y.; **Zaumseil, J.**; Gather, M. C.,
Near-infrared exciton-polaritons in strongly coupled single-walled carbon nanotube microcavities. *Nature Comm.* **2016**, 7, 13078.
7. Zakharko, Y.; Graf, A.; **Zaumseil, J.**,
Plasmonic Crystals for Strong Light–Matter Coupling in Carbon Nanotubes.
Nano Lett. **2016**, 16, 6504.
8. Schießl, S. P., Fröhlich, N., Held, M., Gannott, F., Schweiger, M., Forster, M., Scherf, U., **Zaumseil, J.** *Polymer-Sorted Semiconducting Carbon Nanotube Networks for High-Performance Ambipolar Field-Effect Transistors.*
ACS Appl. Mater. Interfaces **2015**, 7, 682.
9. Schornbaum, J., Winter, B., Schießl, S. P., Gannott, F., Katsukis, G., Guldi, D. M., Spiecker, E.; **Zaumseil, J.**
Epitaxial Growth of PbSe Quantum Dots on MoS₂ Nanosheets and their Near-Infrared Photoresponse.
Adv. Funct. Mater. **2014**, 24, 5798.
10. Thiemann, S.; Sachnov, S.; Pettersson, F.; Bollström, R.; Österbacka, R.; Wasserscheid, P.; **Zaumseil, J.**,
Cellulose-Based Ionogels for Paper Electronics.
Adv. Funct. Mater. **2014**, 24, 625-634.

