

Curriculum vitae

Dr. Till Leißner
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Research areas

Fabrication of plasmonic and nano-photonics devices
Time-resolved characterization of surface plasmons
Focussed ion beam microscopy and lithography
Characterization of organic energy devices
Failure analysis of electronic components
Correlative microscopy of organic and biological materials

Curriculum

since 2019	Associate Professor , NanoSYD, Mads Clausen Institute, SDU
03-06/2019	Invited Associate Professor , Kaunas University of Technology, Lithuania
2016-2018	Assistant Professor , NanoSYD, Mads Clausen Institute, SDU
2015	Postdoc , NanoSYD, Mads Clausen Institute, SDU
2014	Postdoc , Department of Biochemistry and Molecular Biology, SDU
2009-2013	Doctoral researcher , Department of Experimental and Applied Physics, University of Kiel

Recent publications (peer-reviewed)

- Nanoscale thinning of metal-coated polypropylene films by Helium-ion irradiation**
Neupane, S., Chiriac, S., Greenbank, W., Gkionis-Konstantatos, O., Leissner, T., Ebel, T. & Tavares, L., 18. Oct 2023, In: Power Electronic Devices and Components. 6, 6 p., 100046.
- Nanoscale thinning of metal-coated polypropylene films by Helium-ion irradiation**
Neupane, S., Chiriac, S., Greenbank, W., Gkionis-Konstantatos, O., Leissner, T., Ebel, T. & Tavares, L., Oct 2023, In: Power Electronic Devices and Components. 6, 6 p., 100046.
- Micro-spectroscopy of buried short-range surface plasmon polaritons supported by thin polycrystalline gold films**
Großmann, M., Black, M., Jaruschewski, J., Klick, A., Leißner, T., Fiutowski, J., Rubahn, H. G. & Bauer, M., Jun 2021, In: Plasmonics. 16, 3, p. 737-746
- Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells**
Prete, M., Khenkin, M. V., Glowienka, D., Patil, B. R., Lissau, J. S., Dogan, I., Hansen, J. L., Leißner, T., Fiutowski, J., Rubahn, H. G., Julsgaard, B., Balling, P., Turkovic, V., Galagan, Y., Katz, E. A. & Madsen, M., 2021, In: ACS Applied Energy Materials. 4, 7, p. 6562-6573
- Efficient Coupling of Single Organic Molecules to Channel Plasmon Polaritons Supported by V-Grooves in Monocrystalline Gold**
Kumar, S., Leißner, T., Boroviks, S., Andersen, S. K. H., Fiutowski, J., Rubahn, H-G., Mortensen, N. A. & Bozhevolnyi, S. I., 19. Aug 2020, In: ACS Photonics. 7, 8, p. 2211-2218
- Photo-induced and electrical degradation of organic field-effect transistors**
Cielecki, P. P., Leissner, T., Ahmadpour, M., Madsen, M., Rubahn, H-G., Fiutowski, J. & Kjelstrup-Hansen, J., Jul 2020, In: Organic Electronics. 82, 7 p., 105717.
- Photo-deposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO₂ Thin Film**
Veziroglu, S., Obermann, A-L., Ullrich, M., Hussain, M., Kamp, M., Kienle, L., Leißner, T., Rubahn, H-G., Polonskyi, O., Strunskus, T., Fiutowski, J., Es-Souni, M., Adam, J., Faupel, F. & Aktas, O. C., 1. Apr 2020, In: ACS Applied Materials & Interfaces. 12, 13, p. 14983-14992

8. **Femtosecond time-resolved photoemission electron microscopy operated at sample illumination from the rear side**
Klick, A., Großmann, M., Beewen, M., Bittorf, P., Fiutowski, J., Leißner, T., Rubahn, H-G., Reinhardt, C., Elmers, H-J. & Bauer, M., 16. May 2019, In: Review of Scientific Instruments. 90, 5, 7 p., 053704.
9. **Photo-induced Degradation Mechanisms in 4P-NPD Thin Films**
Cielecki, P. P., Adam, J., Leissner, T., Patil, B. R., Madsen, M., Rubahn, H-G., Kjelstrup-Hansen, J. & Fiutowski, J., Dec 2018, In: Organic Electronics. 63, p. 114-119
10. **Detection and characterization of attenuated multimode waveguiding in SiO₂ slabs using photoemission electron microscopy**
Klick, A., Wagner, R., Großmann, M., Kadem, L. F., Leißner, T., Rubahn, H-G., Selhuber-Unkel, C. & Bauer, M., 16. Aug 2018, In: Physical Review B. 98, 8, 7 p., 085128.