

**Current positions**

Head of Young Investigator Group Hybrid Materials Formation and Scaling (EE-NYFS) at HZB

Ass. Sen. Lecturer at the Department of Chemistry, Lund University

Previous positions

Scientist at Lund University (2014-2016)

Scientist at Stanford University (2012-2014)

Scientific degree

PhD in Chemistry, Uppsala University, Sweden, (2012)

Recent research topics

Scaling of process technology for solution-processable hybrid semiconductors and the kinetics of material formation

Awards, honors, memberships

Postdoctoral Fellowship (Marcus and Amalia Wallenberg Foundation, Sweden)

International Career Grant (Swedish Research Council/Marie-Curie Actions)

Board member European Society for Quantum Solar Energy Conversion

Publications/Patents (5 most important)

- **T. Kirchartz**, Lisa Krückemeier, **E. L. Unger**, Research Update: Recombination and open-circuit voltage in lead-halide perovskites, *APL Materials*, 6, 100702 (2018) [doi:10.1063/1.5052164](https://doi.org/10.1063/1.5052164)
- **E. L. Unger**, E. T. Hoke, C. D. Bailie, W. H. Nguyen, A. R. Bowring, et al., Hysteresis and transient behavior in current–voltage measurements of hybrid-perovskite absorber solar cells *Energ. Environ. Sci.* 7, 3690 (2014) [doi:10.1039/c4ee02](https://doi.org/10.1039/c4ee02)
- C. Bailie, M. G. Christoforo, J. P. Mailoa, A. R. Bowring, **E. L. Unger**, et al. Semi-transparent perovskite solar cells for tandems with silicon and CIGS *Energ. Environ. Sci.* 8, 956 (2014) [doi:10.1039/c4ee0332a](https://doi.org/10.1039/c4ee0332a)
- **E. L. Unger**, A. R. Bowring, C. J. Tassone, V. L. Pool, A. Gold-Parker, et al. Chloride in lead chloride-derived organo-metal halides for perovskite-absorber solar cells, *Chem. Mater.*, 26, 7158 (2014) [doi:10.1021/cm503828b](https://doi.org/10.1021/cm503828b)
- **E. L. Unger**, L. Kegelmann, K. Suchan, D. Sörell, **L. Korte**, **S. Albrecht**, Roadmap and roadblocks for the band gap tunability of metal halide perovskites, *J. Mater. Chem. A.*, 5, 11401-11409 (2017) [doi:10.1039/C7TA00404D](https://doi.org/10.1039/C7TA00404D) (Invited Highlight Article)