

Prof. Dr. Sebastian Reineke

Chair for Organic Semiconductors

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Research-ID: <http://www.researcherid.com/rid/G-9894-2014>

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Date of birth December 9, 1979

Nationality German

Professional Career

- Since 06/2016 *Chair for Organic Semiconductors (W2) at TU Dresden (Germany)*
- 05/2014 – 05/2016 *Chair for Organic Semiconductors (Jun.-Prof./W1) at TU Dresden (Germany) with tenure track*
- 10/2013 – 03/2014 *Visiting Scientist at Ludwig-Maximilians-Universität München (LMU) with Prof. Jochen Feldmann (DFG Return/Reintegration Fellowship)*
- 04/2011 – 09/2013 *Postdoctoral fellow at Massachusetts Institute of Technology (MIT) with Prof. Marc A. Baldo (DFG Research Fellowship)*
- 08/2010 – 03/2011 *Postdoctoral researcher at TU Dresden with Prof. Karl Leo*

Education

- 08/2005 – 07/2010 *PhD in physics (Degree: Dr. rer. nat), ‘Controlling Excitons: Concepts for Phosphorescent Organic LEDs at High Brightness’ (summa cum laude, supervisor: Prof. Karl Leo)*
- 2000 – 2005 *Study of physics (diploma) in Heidelberg and Dresden. (Degree: Diplom), ‘Investigation of triplet-exciton-quenching in organic phosphorescent LEDs’ (supervisor: Prof. Karl Leo)*

Awards and prizes

- 2015 **ERC Starting Grant 2015**, awarded by the European Research Council for the project 'Novel applications based on organic biluminescence'
- 2011 **DFG Research Fellowship**, 30 month, hosted by the Massachusetts Institute of Technology
- 2010 **Finalist Dissertationspreis SKM 2011** der Deutschen Physikalischen Gesellschaft (DPG)
- 2009 **Emanuel-Goldberg-Preis 2009**, awarded by the Robert-Luther-Stiftung, TU Dresden, acknowledging the PhD work
- 2008 **Young Investigators Award – 3rd place**, awarded by the Committee of the 7th International Conference on Electroluminescence of Molecular Materials and Related Phenomena
- 2006 **Professor-Schwabe-Preis 2006**, awarded by the Professor-Schwabe-Stiftung, TU Dresden, acknowledging the diploma work

Other

- Since 2017 *Chair of conference entitled 'Organic Electronics and Photonics: Fundamentals and Devices' at the SPIE Photonics Europe*
- 2015 – 2016 *Lead organizer of a Symposium at the Materials Research Society (MRS) Spring Meeting 2016 entitled 'Organic excitonic Systems and devices'*
- 2013 *Lead organizer of a MRS Fall 2013 Symposium entitled 'Functional aspects of luminescent and photoactive organic and soft materials'*
- 2011 – 2013 *Member of scientific advisory panel of the Department of Energy (DOE) for the Solid-State Lighting (SSL) Multi-Year Program Plan*
- 02/2010 – 07/2010 *Parental leave to care for daughter Paula Magdalena Ute Reineke*
- 04/2008 – 07/2008 *Parental leave to care for daughter Lilli Mareile Reineke*

Selected peer-reviewed Publications

- J. Ràfols-Ribé, P.-A. Will, C. Hänisch, M. Gonzalez-Silveira, S. Lenk, J. Rodríguez-Viejo, and **S. Reineke**, *Sci. Adv.* **4**, eaar8332 (2018). *High performance organic light-emitting diodes comprising ultrastable glass layers*, <http://dx.doi.org/10.1126/sciadv.aar8332>.
- F. Fries, M. Fröbel, P. Yiao Ang, S. Lenk, and **S. Reineke**, *Light: Science & Applications* **7**:18, (2018). *Real-time beam shaping without additional optical elements*, <http://dx.doi.org/10.1038/s41377-018-0014-0>.
- Q. Wei, P. Kleine, Y. Karpov, X. Qiu, H. Komber, K. Sahre, A. Kiriy, R. Lygaitis, S. Lenk, **S. Reineke**, and B. Voit, *Adv. Funct. Mater.* **27**, 1605051 (2017). *Conjugation-Induced Thermally Activated Delayed Fluorescence (TADF): From Conventional Non-TADF Units to TADF-Active Polymers*, <http://dx.doi.org/10.1002/adfm.201605051>.

S. Krotkus, D. Kasemann, S. Lenk, K. Leo, and **S. Reineke**, *Light: Science & Applications* **5**, e16121 (2016). *Adjustable white-light emission from a photo-structured micro-OLED array*, <http://dx.doi.org/10.1038/lsa.2016.121>.

W. Chang, D.N. Congreve, E. Hontz, M.E. Bahlke, D.P. McMahon, **S. Reineke**, T. Wu, V. Bulovic, T. Van Voorhis, and M.A. Baldo, *Spin-dependent charge transfer state design rules in organic photovoltaics*, *Nat. Commun.* **6**, 6415 (2015).
<http://dx.doi.org/10.1038/ncomms7415>

S. Reineke, and M. A. Baldo, *Room temperature triplet state spectroscopy of organic semiconductors*, *Scientific Reports* **4**, 3797; DOI: 10.1038/srep03797 (2014).
<http://dx.doi.org/10.1038/srep03797>

S. Reineke, N. Seidler, S.R. Yost, F. Prins, W.A. Tisdale, and M.A. Baldo, *Highly efficient, dual state emission from an organic semiconductor*, *Appl. Phys. Lett.* **103**, 093302 (2013).
<http://dx.doi.org/10.1063/1.4819444>

D.N. Congreve, J.Y. Lee, N.J. Thompson, E. Hontz, S.R. Yost, P.D. Reusswig, M.E. Bahlke, **S. Reineke**, T. Van Voorhis, and M.A. Baldo, *External Quantum Efficiency Above 100% in a Singlet-Exciton-Fission-Based Organic Photovoltaic Cell*, *Science* **340**, 334 (2013).
<http://dx.doi.org/10.1126/science.1232994>

S. Reineke, M. Thomschke, B. Lüssem, and K. Leo, *White organic light-emitting: Status and perspective*, *Reviews of Modern Physics* **85**, 1245 (2013).
<http://dx.doi.org/10.1103/RevModPhys.85.1245>

S. Reineke, F. Lindner, G. Schwartz, N. Seidler, K. Walzer, B. Lüssem, and K. Leo, *White organic light-emitting diodes with fluorescent tube efficiency*, *Nature* **459**, 234 (2009).
<http://dx.doi.org/10.1038/nature08003>

For a complete list of publications:

<http://scholar.google.com/citations?user=EyIfCL0AAAAJ&hl=en>

Performance data:

~80 peer-reviewed publications, >6500 citations, H-index: 29 (source: Google Scholar).

Role as reviewer for a variety of scientific journals: *Nature Materials*, *Nature Photonics*, *Nature Communications*, *Scientific Reports* (Nature Publishing Group), *Physical Review Letters*, *Advanced Materials*, *Advanced Functional Materials*, and more.