O. Trapp

*The author presented on this page has recently published his **10th article** in Angewandte Chemie in the last 10 years:*
"UV-Induced Tetrazole-Thiol Reaction for Polymer Conjugation and Surface Functionalization": W. Feng, L. Li, C. Yang, A. Welle, O. Trapp, P. A. Levkin, *Angew. Chem. Int. Ed.* **2015**, *54*, 8732; *Angew. Chem.* **2015**, *127*, 8856.

Oliver Trapp

Date of birth:	June 9, 1973
Position:	Professor of Organic Chemistry, University of Heidelberg
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Education:	1998 Diploma in chemistry, University of Tübingen 1999–2001 PhD with Volker Schurig, University of Tübingen 2002–2004 Postdoctoral work with Richard N. Zare, Stanford University
Awards:	**2008** ADUC Prize; **2008** Heinz Maier-Leibnitz Prize (Deutsche Forschungsgemeinschaft); **2008** North Rhine-Westphalia Innovation Prize; **2010** ERC Starting Grant (Consolidator); **2012** ERC Proof of Concept; **2015** Max Planck Fellow
Current research interests:	Design of self-amplifying catalysts; asymmetric synthesis and catalysis; investigation of reaction mechanisms; high-throughput screening techniques; multiplexing chromatography; dynamic stereochemistry; investigation of complex reactions; integration of analysis and catalysis in a single step
Hobbies:	Reading, photography, playing the guitar, hiking, skiing, triathlons

My not-so-secret passion is stereochemistry.

If I were not a scientist, I would be an astronaut.

The downside of my job is continuously losing excellent co-workers.

My favorite motto is do something new and creative.

The most amusing chemistry adventure in my career was condensing about five liters of oxygen and igniting a bale of hay with it.

If I could have dinner with three famous scientists from history, they would be Albert Einstein, Max Planck, and Alexander von Humboldt.

And I would ask them which problem took up most of their time.

My favorite place on earth is the Yosemite Valley in fall.

My greatest achievement has been the direct imaging of a stereogenic center.

I lose track of time when I try to solve an unsolved challenge.

The best advice I have ever been given is only to do what you makes happy.

I celebrate success by clinking glasses with my research group and friends.

I would have liked to have discovered DNA.

My 5 top papers:

1. "Temperature-Controlled Bidirectional Enantioselectivity in a Dynamic Catalyst for Asymmetric Hydrogenation": G. Storch, O. Trapp, *Angew. Chem. Int. Ed.* **2015**, *54*, 3580; *Angew. Chem.* **2015**, *127*, 3650. (Control of the enantioselectivity of a stereodynamic hydrogenation catalyst by temperature.)
2. "Imaging the Absolute Configuration of a Chiral Epoxide in the Gas Phase": P. Herwig et al., *Science* **2013**, *342*, 1084. (The first reported determination of the absolute configuration of a chiral compound by direct imaging.)
3. "Integration of Catalysis and Analysis is the Key: Rapid and Precise Investigation of the Catalytic Asymmetric Gosteli–Claisen Rearrangement": J. Troendlin, J. Rehbein, M. Hiersemann, O. Trapp, *J. Am. Chem. Soc.* **2011**, *133*, 16444. (An elegant combination of asymmetric catalysis and analytical separation in a microcapillaray.)
4. "Boosting the Throughput of Separation Techniques by Multiplexing": O. Trapp, *Angew. Chem. Int. Ed.* **2007**, *46*, 5609; *Angew. Chem.* **2007**, *119*, 5706. (Improving sample throughput by combining information technology and chemical analysis.)
5. "Unified Equation for Access to Rate Constants of First-Order Reactions in Dynamic and On-Column Reaction Chromatography": O. Trapp, *Anal. Chem.* **2006**, *78*, 189. (An equation to determine reaction rate constants of (inter-)converting chemical systems in chromatographic reactors.)

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