

Dr. Jérôme Waser

Full Professor in Organic Chemistry, Co-Director NCCR Catalysis
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Education and Academic Positions

- 2019- Full Professor in Organic Chemistry, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.
- 2014-2019 Associate Professor in Organic Chemistry, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.
- 2007-2014 Assistant Professor in Organic Chemistry, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland.
- 2006-2007 Stanford University, chemistry, Stanford, California, USA
Postdoctoral studies, adviser: *Prof. Barry M. Trost*
- 2002-2006 Swiss Federal Institute of Technology (ETH), chemistry, Zurich, Switzerland
Ph. D., adviser: *Prof. Erick M. Carreira*, degree in 2006

Awards and Fellowships

- 2024 Teaching award of the section of chemistry and chemical engineering at EPFL
- 2017 ERC Consolidator Grant 2017
- 2016 Springer Heterocyclic Chemistry Award
- 2014 Werner Prize 2014 of the Swiss Chemical Society
- 2013 ERC Starting Grant 2013

Selected Publications

- (5) “*Photocatalytic Decarboxylative Functionalization of Cyclopropenes via Cyclopropenium Cation Intermediates*”
Smyrnov, V.; Waser, J.* *Angew. Chem., Int. Ed.* **2024**, *63*, e202404265.
- (4) “*Accessing elusive σ -type cyclopropenium cation equivalents through redox gold catalysis*”
Li, X.; Wodrich, M. D.; Waser, J.* *Nat. Chem.* **2024**, *16*, 901-912.
- (3) “*Photocatalyzed $[2\sigma + 2\sigma]$ and $[2\sigma + 2\pi]$ Cycloadditions for the Synthesis of Bicyclo[3.1.1]heptanes and 5- or 6-Membered Carbocycles*”
Nguyen, T. V. T.; Bossonnet, A.; Wodrich, M. D.; Waser, J.* *J. Am. Chem. Soc.* **2023**, *145*, 25411-25421.
- (2) “*Peptide-Hypervalent Iodine Reagent Chimeras: Enabling Peptide Functionalization and Macrocyclization*”
Liu, X.-Y.; Ji, X.; Heinis, C.; Waser, J.* *Angew. Chem., Int. Ed.* **2023**, *62*, e202306036.
- (1) “*Enantioselective Carboetherification/Hydrogenation for the Synthesis of Amino Alcohols via a Catalytically Formed Chiral Auxiliary*”
Buzzetti, L.; Purins, M.; Greenwood, P. D. G.; Waser, J.* *J. Am. Chem. Soc.* **2020**, *142*, 17334-17339.
- Full academic CV available at: <http://lcs0.epfl.ch/waser>