Eric Meggers – *List of Publications*

Updated November 11, 2026

- Co-author on 220 peer-reviewed research publications, 27 reviews and accounts, and 6 patents or patent applications
- Total citations = 20133, H-index = 84 (Web of Science, all databases, November 11, 2026)

Peer-Reviewed Research Publications

220. Diastereoselective Access to Stereogenic-at-Iron Catalysts with Chiral N-Heterocyclic Carbene Ligands: A. L. Opper, D. Baran, S. I. Ivlev, E. Meggers, *Organometallics* **2026**, *45*, 2609-2615 (featured on cover).
219. Highly Efficient Iron-Catalyzed Asymmetric Hydrosilylation: Photo-acceleration and Positive Non-linear Effect: D. Baran, F. Jakobi, T. J. B. Zähringer, M. Villa, S. I. Ivlev, P. Ceroni, E. Meggers, *ACS Catal.* 2026, 16, 17514-17524.
218. Chiral Pyrazolinylidene Complexes for Asymmetric Catalysis: F. Möller, N. Demirel, T. Krüger, L. Plohnke, J. Schröder, S. I. Ivlev, E. Meggers, *Chem. Eur. J.* **2026**, *32*, e71426.
217. Iron-Catalyzed Vicinal C(sp^3)–H Diamination of Carboxylic Acids: B. Zhou, Y. Zheng, X. Xie, M. Hemming, S. I. Ivlev, E. Meggers, *Angew. Chem. Int. Ed.* **2026**, *65*, e4041858 (*Synfacts* **2026**, *22*, 862).
216. Imidazol-2-ylidene-Based NCCN Ligands for Chiral-at-Iron Catalysis: L. Hinterlang, S. I. Ivlev, E. Meggers, *Organometallics* **2026**, *45*, 1428-1436.
215. An Achiral Tetradentate *Cis*-α-Coordinating NCCN Ligand Gives Rise to a Configurationally Stable Chiral-at-Iron Complex for Enantioselective Catalysis: L. Hinterlang, N. Demirel, S. I. Ivlev, E. Meggers, *Chem. Eur. J.* **2026**, *32*, e03221.
214. Cobalt catalyst with exclusive metal-centered chirality for asymmetric photocatalysis: S.-Y. Yao, M. Villa, Y. Zheng, A. Fiorentino, B. Ventura, S. I. Ivlev, P. Ceroni, E. Meggers, *Nat. Commun.* **2025**, *16*, 6635 (*Synfacts* **2026**, *22*, 20).
213. Chiral β-Lactams by Ruthenium-Catalyzed Enantioselective C–H Carbene Insertion: A. L. Opper, X. Nie, S. I. Ivlev, E. Meggers, *Eur. J. Org. Chem.* **2025**, e202500076
212. Development of Chiral-At-Ruthenium Mesoionic Carbene Catalysts: N. Demirel, P. Moths, X. Xie, S. I. Ivlev, E. Meggers, *Chem. Eur. J.* **2025**, *31*, e202403792.
211. Coordination-induced axial chirality controls the metal-centred configuration in a stereogenic-at-iron catalyst: B. Buchberger, N. Demirel, X. Xie, S. I. Ivlev, E. Meggers, *Chem. Commun.* **2025**, *61*, 1894-1897.
210. β^3-Tryptophans by Iron-Catalyzed Enantioselective Amination of 3-Indolepropionic Acids: B. Zhou, M. I. Ih, S. Yao, M. Hemming, S. I. Ivlev, S. Chen, E. Meggers, *Org. Lett.* **2024**, *26*, 8361-8365 (*Synfacts* **2025**, *21*, 100).
209. Stereogenic-at-Iron Mesoionic Carbene Complex for Enantioselective C–H Amidation: N. Demirel, M. Dawor, G. Nadler, S. I. Ivlev, E. Meggers, *Chem. Sci.* **2024**, *15*, 15625-15631
208. α-Amino Acid Synthesis by 1,3-Nitrogen Migration: An Update: K. Yin, E. Meggers, *Synthesis* **2024**, *56*, 2670-2680 (featured on cover).
207. Photoelectrochemical asymmetric dehydrogenative [2+2] cycloaddition between C-C single and double bonds via the activation of two C(sp^3)–H bonds: P. Xiong, S. I. Ivlev, E. Meggers, *Nat. Catal.* **2023**, 6, 1186-1193 (Synfact fo the Month, *Synfacts* **2024**, *20*, 0147).
206. Nitrene-Mediated Enantioselective Intramolecular Olefin Oxyamination to Access Chiral γ-Aminomethyl-γ-Lactones: X. Nie, C. W. Ritter, M. Hemming, S. I. Ivlev, X. Xie, S. Chen, E. Meggers, *Angew. Chem. Int. Ed.* **2023**, 62, e202314398 (*Synfacts* **2024**, *20*, 0146).

205. Enantioselective and Enantioconvergent Iron-Catalyzed C(sp^3)-H Aminations to Chiral 2-Imidazolidinones: T. Cui, C.-X. Ye, J. Thelemann, D. Jenisch, E. Meggers, *Chin. J. Chem.* **2023**, *41*, 2065-2070 (NHU-CJC Award for high novelty and significance).

204. Design of Stereogenic-at-Iron Catalysts with a (3+2+1)-Ligand Sphere: D. Baran, L. Hinterlang, S. I. Ivlev, E. Meggers, *Eur. J. Inorg. Chem.* **2023**, *26*, e202300148 (Editors' Choice: Spotlights).

203. *N*-Boc-Protected α-Amino Acids by 1,3-Migratory Nitrene C(sp^3)-H Insertion: B. Zhou; C.-X. Ye, E. Meggers, *Eur. J. Org. Chem.* **2023**, *26*, e202300296 (featured in Org. Chem. Highlights by Douglas F. Taber, July 8, 2024).

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197. Nitrene-Mediated C−H Oxygenation: Catalytic Enantioselective Formation of Five-Membered Cyclic Organic Carbonates: X. Nie, C.-X. Ye, S. I. Ivlev, E. Meggers, *Angew. Chem. Int. Ed.* **2022**, e202211971.

196. Stereocontrolled 1,3-nitrogen migration to access chiral α-amino acids: C.-X. Ye, X. Shen, S. Chen, E. Meggers, *Nat. Chem.* **2022**, *14*, 566-573 (featured by M. Zanda, *Synform* **2022/10**, A153-A154).

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191. Enantioselective α-Fluorination and α-Chlorination of *N*-Acyl Pyrazoles Catalyzed by Non-C_2-Symmetric Chiral-at-Rhodium Catalyst: Y. Grell, X. Xie, S. I. Ivlev, E. Meggers, *ACS Catal.* **2021**, *11*, 11396-11406.

190. Catalytic α-Deracemization of Ketones Enabled by Photoredox Deprotonation and Enantioselective Protonation: C. Zhang, A. Z. Gao, X. Nie, C.-X. Ye, S. I. Ivlev, S. Chen, E. Meggers, *J. Am. Chem. Soc.* **2021**, *143*, 13393-13400.

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