Curriculum Vitae **Frank Glorius**

Prof. Dr. Frank Glorius
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Born August 1972 in Germany
Married, three children.
orcid.org/0000-0002-0648-956X
ResearcherID K-6385-2015
>300 independent publications (peer reviewed), >250 invited scientific presentations, H-index 93, >31.000 cited.

Achievements/Highlights

Research	Publications in *Science* (3), *Nature* (1), *Nature Chem.* (9), *JACS* (35), *Angew. Chem. Int. Ed.* (87) and more – highly cited. Main contributions in 1) C-H activation, 2) N-heterocyclic carbenes including organocatalysis, on-surface chemistry and arene hydrogenation, 3) photocatalysis and 4) smart screening and data analysis.
Education/mentoring	Mentor for 51 Diploma and MSc theses, for 69 doctoral students (47 completed dissertations), 40 postdocs and for 2 Habilitations. 28 former coworkers have become Professors, all others have secured excellent jobs in industry. I have mentored many young BSc/MSc students and have initiated more than 50 research stays in top research groups.
Outreach/community	Inventor of FoChIn, ROCCAT, co.labore (see below); show lectures ("Weihnachtsvorlesung").

Academic Career

Since 08/2007	**Münster:** Full Professor of Organic Chemistry at the WWU Münster
2004 - 2007	**Marburg:** C3-Professor for Organic Chemistry at the University of Marburg
2001 - 2004	**MPI:** Independent research at the MPI für Kohlenforschung (Mentor: Prof. Alois Fürstner)
2000 - 2001	**Harvard:** Postdoctoral studies with Prof. David A. Evans, Harvard University
1997 - 2000	**Basel&MPI:** PhD with Prof. Andreas Pfaltz, University of Basel & MPI für Kohlenforschung, *summa cum laude*
1996 - 1997	**MPI&Hannover:** Diploma thesis with Prof. Andreas Pfaltz and Prof. H. Martin R. Hoffmann, Max-Planck-Institut (MPI) für Kohlenforschung, Mülheim/Ruhr and the University of Hannover
1995 - 1996	**Stanford:** Research studies with Prof. Paul A. Wender, Stanford University
1992 - 1997	**Hannover:** Studies of chemistry at the University of Hannover

Selected Awards

2019	Gay-Lussac Humboldt Award (France)
2018	Merck, Sharp & Dohme Award of the Royal Society of Chemistry (RSC)
2018	ERC Advanced Grant
2018	Arthur C. Cope Scholar Award of the American Chemical Society (ACS)
2018,17,16,15,14	Clarivate/Thomson Reuters Highly Cited Researcher
2017	Mukaiyama Award of The Society of Synthetic Organic Chemistry, Japan (SSOCJ)
2017	IPMI Faculty Advisor Award
2014	Goldener Brendel Award (for excellent teaching from the students of the Department)
2013	Honorary Membership of the Israel Chemical Society
2013	Gottfried Wilhelm Leibniz-Award 2013
2011	OMCOS Award
2010	ERC Independent Researcher Starting Grant
2006	Alfried Krupp Prize for Young University Teachers
2005	Dozentenstipendium of the Fonds der Chemischen Industrie (FCI)
2005	BASF Catalysis Award
2001 - 2004	Liebig-scholarship of the Fonds der Chemischen Industrie

Inventor & Main Organizer of Events/Symposia

2009	**ROCCAT** (Rising Organic Chemists in CATalysis); with 28 young academic leaders (Oestreich, Nakao, Rüping, Itami, Scheidt, Dixon, Fagnou, Gaunt, Zhu, Grela, Movassaghi, Reek, Gooßen, Shintani, Ackermann, Ritter, Gademann, White, Burke, List, Kanai, Rossen, J. Q. Yu, Stoltz, L.-Z. Gong, Plietker, Bode, Glorius).
2019	**ROCCAT-II** with 7 young academic leaders who are also former group members (C. Wang, Besset, Bugaut, Z. Shi, Patureau, Wencel-Delord, Biju).
Since 2012	**FoChIn** (Forschung der Chemischen Industrie); Annual Research of the Chemical Industry meeting; each of FoChIn 1-8 attracted around 300 participants.
2015/16	**co.labore**; > 6 months art and science collaboration of 12 artists and 18 chemistry gradstudents); finally exhibition of jointly created pieces of art and scientific posters in June 2016 (Schloss Münster).
2017 - 2019	Annual "**Photochemistry**" symposium, around 150 participants.
2018 & 2019	Three „**Experimentalvorlesungen**" (Hochschultag 2018, Weihnachtsvorlesung 2018, "Chemie – die stimmt" 2019 with 350, 600 and 85 participants, respectively)

Selected Lectureships

2019	Astra Zeneca Lecture at University of Cambridge, UK
2018	Pharmaron Lecture at University of Oxford, UK
2017	Merck Lecture, University of Illinois, Urbana-Champaign, USA
2016	CCGC Lecturer, McGill and UMontreal, Canada
2014/15	Novartis Chemistry Lectureship Award
2014	Nankai University Lectureship on Organic Chemistry
2013	Holger Erdtman Lecture, KTH - The Royal Institute of Technology, Sweden
2012	Thieme Lecture in Organic and Bioorganic Chemistry, University of Stuttgart
2012	Boehringer-Ingelheim Lecture at Yale

Selected Funding

2018 - 2023	ERC Advanced Grant
2010 - 2021	SFB858
2014 - 2020	Gottfried Wilhelm Leibniz-Award 2013
2010 - 2015	ERC Independent Researcher Starting Grant
2007	Alfried Krupp Prize for Young University Teachers

Selected Professional Activities

At present	Member of the *Kuratorium des Fonds der Chemischen Industrie* Member of a Humboldt-Foundation selection committee (incoming postdocs) Member of the Scientific Advisory Board of Symrise AG Member of the Scientific Advisory Board of the Leibniz-Instituts für Katalyse e.V. (LIKAT) Series Editor von *Topics in Organometallic Chemistry*, Springer Member of the Advisory Board of *Chemical Science*, *ChemPhotoChem*, *Helvetica Chimica Acta*, *Organic Chemistry Frontiers*, *ChemCatChem*, *Advanced Synthesis & Catalysis* Referee for numerous journals (such as *Science*, *Nature*, *Nature Chem.*, *Chem*, *JACS*, *Angew. Chem.*, *Chem. Sci*., *Chem. Commun*., *Chem. Eur. J*., *Chem. Soc. Rev*., *Adv. Synth. Catal.*, *ChemCatChem*, *Org. Lett*., *ACS Catal*.) and organizations (such as DFG, Humboldt Foundation, Fonds der Chemischen Industrie, ERC, Wallenberg Foundation)
2014 - 2017	Chairman of a GDCh-Award selection committee (Horst Pracejus-Prize)
2013 - 2019	Member of the Managing Board of the German Catalysis Society (GeCatS)
Three times	Managing Director of the Institute for Organic Chemistry, WWU Münster
2011 - 2014	Chairman of the local association Münster of the GDCh (German Chemical Society)
2010 - 2012	Member of the Senate of the Westfälische Wilhelms-Universität (WWU) Münster

Ten most relevant publications

1) Z. Nairoukh , M. Wollenburg, C. Schlepphorst, K. Bergander, **F. Glorius**, *The formation of all-cis-(multi)fluorinated piperidines by a dearomatization–hydrogenation process*, *Nature Chem.* **2019**, *11*, 264. (cited 2 times)
(First successful chemoselective hydrogenation of fluoropyridines)

2) M. Teders, C. Henkel, L. Anhäuser, F. Strieth-Kalthoff, A. Gómez-Suárez, R. Kleinmans, A. Kahnt, A. Rentmeister, D. Guldi,* **F. Glorius**,* *The Energy Transfer Enabled Biocompatible Disulfide–Ene Reaction*, *Nature Chem.* **2018**, *10*, 981. (11x) *(A new click reaction: biocompatible and based on an energy transfer)*

3) M. P. Wiesenfeldt, Z. Nairoukh, W. Li, **F. Glorius**, *Hydrogenation of Fluoroarenes: Direct access to all-cis-(multi)fluorinated cycloalkanes*, *Science* **2017**, *357*, 908. (29x)
(First C–F bond tolerant hydrogenation of fluoroarenes - a significant breakthrough)

4) G. Wang, A. Rühling, S. Amirjalayer, M. Knor, J. B. Ernst, C. Richter, H.-J. Gao, A. Timmer, H.-Y. Gao, N. L. Doltsinis, **F. Glorius**,* H. Fuchs,* *Ballbot-type motion of N-heterocyclic carbenes on gold surfaces*, *Nature Chem.* **2017**, *9*, 152. (53x)
(Providing fascinating and useful insight into the binding and movement of NHCs on metal surfaces)

5) C. Guo, M. Fleige, D. Janssen-Müller, C. G. Daniliuc, **F. Glorius**, *Switchable selectivity in an NHC-catalysed dearomatizing annulation reaction*, *Nature Chem.* **2015**, *7*, 842. (70x)
(Highly enantioselective organocatalyzed dearomatization reaction that leads to valuable products)

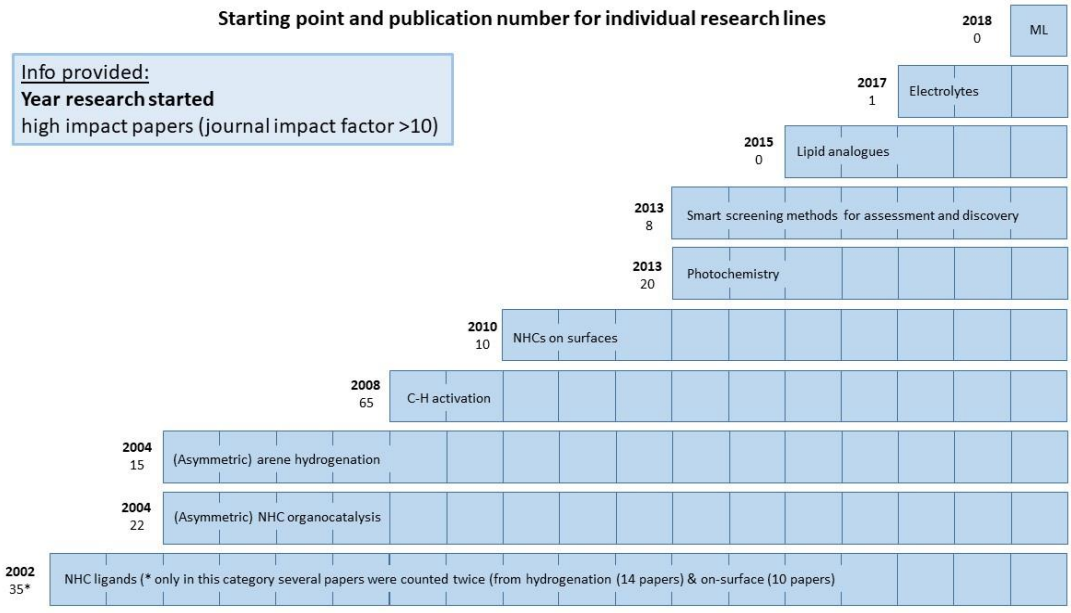
6) K. D. Collins, **F. Glorius**, *A Robustness Screen for the Rapid Assessment of Chemical Reactions*, *Nature Chem.* **2013**, *5*, 597. (213x) *(This additive-based assessment method was eye-opening for many chemists in academia and industry)*

7) D.-G. Yu, T. Gensch, F. de Azambuja, S. Vásquez-Céspedes, **F. Glorius**, *Co(III)-Catalyzed C–H Activation/Formal S_N-type Reactions: Selective and Efficient Cyanation, Halogenation and Allylation*, *J. Am. Chem. Soc.* **2014**, *136*, 17722. (317x)
(Efficient application of earth-abundant cobalt in three C-H activation reactions; high turnover numbers were achieved)

8) B. Sahoo, M. N. Hopkinson, **F. Glorius**, *Combining Gold and Photoredox Catalysis: Visible Light-Mediated Oxy- and Aminoarylation of Alkenes*, *J. Am. Chem. Soc.* **2013**, *135*, 5505. (257x)
(First successful merger of gold catalysis with photocatalysis)

9) S. Rakshit, C. Grohmann, T. Besset, **F. Glorius**, *Rh[III]-Catalyzed Directed C-H Olefination Using an Internal Oxidant: Mild, Efficient and Versatile*, *J. Am. Chem. Soc.* **2011**, *133*, 2350. (483x)
(C-H activation utilizing the power of internal oxidants, later-on applied by many other researchers)

10) **F. Glorius**, C. Burstein, *Conjugate Umpolung of α,β-Unsaturated Aldehydes for the Synthesis of γ-Butyrolactones*, *Angew. Chem. Int. Ed.* **2004**, *43*, 6205. (554x)
(New mode of NHC organocatalysis established, providing access to homoenolate equivalents)



Selected Publications

F. Strieth-Kalthoff, C. Henkel, M. Teders, A. Kahnt, W. Knolle, A. Gómez-Suárez, K. Dirian, …, B. Abel, D. M. Guldi,* F. Glorius, *Discovery of Unforeseen Energy-Transfer-Based Transformations Using a Combined Screening Approach*, *Chem* **2019**, *5*, 2183-2194.

L. Pitzer, F. Schäfers, F. Glorius, *Rapid Assessment of the Reaction Condition-Based Sensitivity of Chemical Transformations*, *Angew. Chem. Int. Ed.* **2019**, 58, 8572-8576.

T. Knecht, S. Mondal, J-H. Ye, M. Das, F. Glorius, *Intermolecular, Branch-Selective and Redox-Neutral Cp*IrIII-Catalyzed Allylic C–H Amidation*, *Angew. Chem. Int. Ed.* **2019**, 58, 7117-7121.

Z. Nairoukh , M. Wollenburg, C. Schlepphorst, K. Bergander, F. Glorius, *The formation of all-cis-(multi)fluorinated piperidines by a dearomatization–hydrogenation process*, *Nature Chem.* **2019**, *11*, 264-270.

M. Wollenburg, D. Moock, F. Glorius, *Hydrogenation of Borylated Arenes*, *Angew. Chem. Int. Ed.* **2019**, *58*, 6549-6553.

L. Pitzer, F. Sandfort, F. Strieth-Kalthoff, F. Glorius, *Carbonyl-Olefin Cross-Metathesis Through a Visible-Light-Induced 1,3-Diol Formation and Fragmentation Sequence*, *Angew. Chem. Int. Ed.* **2018**, *57*, 16219-16223.

J. L. Schwarz, F. Schäfers, A. Tlahuext-Aca, L. Lückemeier, F. Glorius, *Diastereoselective Allylation of Aldehydes by Dual Photoredox and Chromium Catalysis*, *J. Am. Chem. Soc.* ***2018***, *140*, *12705-12709*.

A. Bakker, A. Timmer, E. Kolodzeiski, M. Freitag, H. Y. Gao, H. Mönig, S. Amirjalayer,* F. Glorius,* H. Fuchs,* *Elucidating the binding modes of N-heterocyclic carbenes on a gold surface*, *J. Am. Chem. Soc.* ***2018***, *140*, *11889-11892.*

A. Lerchen, T. Knecht, M. Koy, J. B. Ernst, K. Bergander, C. G. Daniliuc, F. Glorius, *Non-Directed Cross-Dehydrogenative (Hetero)arylation of Allylic C(sp^3)–H bonds enabled by C–H activation*, *Angew. Chem. Int. Ed.* ***2018***, *57*, *15248-15253.*

M. J. James, J. L. Schwarz, F. Strieth-Kalthoff, B. Wibbeling, F. Glorius, *Dearomative Cascade Photocatalysis: Divergent Synthesis through Catalyst Selective Energy Transfer*, *J. Am. Chem. Soc.* **2018**, *140*, 8624-8628.

D. T. Nguyen, M. Freitag, M. Körsgen, S. Lamping, A. Rühling, A. H. Schäfer, M. H. Siekman, H. F. Arlinghaus, W. G. van der Wiel, F. Glorius,* B. J. Ravoo,* *Versatile Micropatterns of N-Heterocyclic Carbenes on Gold Surf…*, *Angew. Chem. Int. Ed.* **2018**, *57*, 11465-11469.

S. Greßies, F. Klauck, J. H. Kim, C. Daniliuc, F. Glorius, *Ligand-Enabled Enantioselective Csp3-H Activation of Tetrahydroquinolines and Saturated Aza-Heterocycles by Rh(I)*, *Angew. Chem. Int. Ed.* **2018**, *57*, 9950-9954.

M. Teders, C. Henkel, L. Anhäuser, F. Strieth-Kalthoff, A. Gómez-Suárez, R. Kleinmans, A. Kahnt, A. Rentmeister, D. Guldi,* F. Glorius,* *The Energy Transfer Enabled Biocompatible Disulfide–Ene Reaction*, *Nature Chem.* **2018**, *10*, 981-988.

M. P. Wiesenfeldt, T. Knecht, C. Schlepphorst, F. Glorius, *Silylarene hydrogenation - a strategic approach enabling direct access to versatile silylated saturated carbo- and heterocycles*, *Angew. Chem. Int. Ed.* **2018**, *57*, 8297-8300.

Q. Lu, S. Mondal, S. Cembellín, F. Glorius, *Mn(I)/Ag(I) Relay Catalysis: Traceless Diazo-Assisted C(sp2)–H/C(sp3)–H Coupling to β-(Hetero)Aryl/Alkenyl Ketones*, *Angew. Chem. Int. Ed.* **2018**, 57, 10732-10736.

L. Rakers, D. Grill, A. L. L. Matos, S. Wulff, D. Wang, J. Börgel, M. Körsgen, H. F. Arlinghaus, H.-J. Galla,* V. Gerke,* F. Glorius,* *Addressable Cholesterol Analogs for Live Imaging of Cellular Membranes*, *Cell Chem. Biol.* **2018**, *25*, 952-961.

S. Singha, T. Patra, C. G. Daniliuc, F. Glorius, *Highly Enantioselective [5+2] Annulations through Cooperative NHC Organocatalysis and Palladium Catalysis*, *J. Am. Chem. Soc.* **2018**, *140*, 3551-3554.

X. Wang, Y. Li, T. Knecht, C. G. Daniliuc, K. Houk,* F. Glorius,* *Unprecedented Dearomatized Spirocyclopropane in a Sequential Rh(III)-catalyzed C-H Activation and Rearrangement Reaction*, *Angew. Chem. Int. Ed.* **2018**, *57*, 5520-5524.

A. Lv, M. Freitag, K. M. Chepiga, A. H. Schäfer, F. Glorius,* L. Chi,* *N-Heterocyclic Carbene-Treated Gold Surfaces in Pentacene Organic Field-Effect Transistors: Improved Stability and Contact at the Interface*, *Angew. Chem. Int. Ed.* **2018**, *57*, 4792-4796.

L. Pitzer, F. Sandfort, F. Strieth-Kalthoff, F. Glorius, *Intermolecular Radical Addition to Carbonyls Enabled by Visible Light Photoredox Initiated Hole Catalysis*, *J. Am. Chem. Soc.* **2017**, *139*, 13652-13655.

Q. Lu, S. Greßies, S. Cembellín, F. J. R. Klauck, C. G. Daniliuc, F. Glorius, *Redox-Neutral Manganese(I)-Catalyzed C–H Activation: Traceless Directing Group Enabled Regioselective Annulation*, *Angew. Chem. Int. Ed.* **2017**, *56*, 12778-12782.

M. P. Wiesenfeldt, Z. Nairoukh, W. Li, F. Glorius, *Hydrogenation of fluoroarenes: Direct access to all-cis-(multi)fluorinated cycloalkanes*, *Science* **2017**, *357*, 908-912.

F. J. R. Klauck, M. J. James, F. Glorius, *Deaminative Strategy for the Visible Light-Mediated Generation of Alkyl Radicals*, *Angew. Chem. Int. Ed.* **2017**, *56*, 12336-12339.

J. B. Ernst, C. Schwermann, G.-I. Yokota, M. Tada, S. Muratsugu,* N. L. Doltsinis,* F. Glorius,* *Molecular Adsorbates Switch on Heterogeneous Catalysis: Induction of Reactivity by N-Heterocyclic Carbenes*, *J. Am. Chem. Soc.* **2017**, *139*, 9144-9147.

L. Candish, M. Teders, F. Glorius, *Transition-Metal-Free, Visible-Light-Enabled Decarboxylative Borylation of Aryl N-Hydroxyphthalimide Esters*, *J. Am. Chem. Soc.* **2017**, *139*, 7440-7443.

X. Wang, T. Gensch, A. Lerchen, C. G. Daniliuc, F. Glorius, *Cp*Rh(III)/Bicyclic Olefin Cocatalyzed C−H Bond Amidation by Intramolecular Amide Transfer*, *J. Am. Chem. Soc.* **2017**, *139*, 6506-6512.

C. Guo,* D. Janssen-Müller, M. Fleige, A. Lerchen, C. G. Daniliuc, F. Glorius,* *Mechanistic Studies on a Cooperative NHC Organocatalysis/Palladium Catalysis System: Uncovering Significant Lessons for Mixed Chiral…*, *J. Am. Chem. Soc.* **2017**, *139*, 4443-4451.

N. Möller, A. Rühling, S. Lamping, T. Hellwig, C. Fallnich, B. J. Ravoo,* F. Glorius,* *Stabilization of High Oxidation State Upconversion Nanoparticles by N-Heterocyclic Carbenes (NHCs), Angew. Chem. Int. Ed.* **2017**, *56*, 4356-4360.

W. Li, M. Wiesenfeldt, F. Glorius, *Ruthenium−NHC−Diamine Catalyzed Enantioselective Hydrogenation of Isocoumarins, J. Am. Chem. Soc.* **2017**, *139*, 2585-2588.

A. Tlahuext-Aca, R. A. Garza-Sanchez, F. Glorius, *Multicomponent Oxyalkylation of Styrenes Enabled by Hydrogen Bond Assisted Photoinduced Electron Transfer, Angew. Chem. Int. Ed.* **2017**, *56*, 3708-3711.

L. Rakers, L. Tebben,* F. Glorius*, *co.labore – A Genuine Collaboration between Arts and Science, Reflecting Viewpoints and Merging Skills, Chem. Eur. J.* **2017**, *23*, 5860-5863.

X. Wang, A. Lerchen, T. Gensch, T. Knecht, C. G. Daniliuc, F. Glorius, *Combination of Cp*RhIII-Catalyzed C-H Activation and a Wagner–Meerwein-Type Rearrangement, Angew. Chem. Int. Ed.* **2017**, *56*, 1381-1384.

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G. Wang, A. Rühling, S. Amirjalayer, M. Knor, J. B. Ernst, C. Richter, H.-J. Gao, A. Timmer, H.-Y. Gao, N. L. Doltsinis, F. Glorius*, H. Fuchs*, *Ballbot-type motion of N-heterocyclic carbenes on gold surfaces*, *Nature Chem.* **2017**, *9*, 152-156.

J. B. Ernst, S. Muratsugu*, F. Wang, M. Tada, F. Glorius*, *Tunable Heterogeneous Catalysis – N-Heterocyclic Carbenes as Ligands for Supported Heterogeneous Ru/K-Al2O3 Catalysts to Tune Reactivity and Selectivity*, *J. Am. Chem. Soc.* **2016**, *138*, 10718-10721.

T. Gensch, F. J. R. Klauck, F. Glorius, *Cobalt-Catalyzed C−H Thiolation through Dehydrogenative Cross-Coupling*, *Angew. Chem. Int. Ed.* **2016**, *55*, 11287-11291.

G. Chang, M. Fleige, D. Janßen-Müller, C. Daniliuc, F. Glorius, *Cooperative N-Heterocyclic Carbene/Palladium-Catalyzed Enantioselective Umpolung Annulations*, *J. Am. Chem. Soc.* **2016**, *138*, 7840-7843.

J. H. Kim, S. Greßies, F. Glorius, *Cooperative Lewis Acid/ Cp*Co(III)-Catalyzed C–H Bond Activation for the Synthesis of Isoquinolin-3-ones*, *Angew. Chem. Int. Ed.* **2016**, *55*, 5577-5581.

A. Rühling, K. Schaepe, L. Rakers, B. Vonhören, P. Tegeder, B. J. Ravoo,* F. Glorius*, *Modular and bidentate hybrid NHC-thioether ligands for the stabilization of palladium nanoparticles in various solvents*, *Angew. Chem. Int. Ed.* ***2016***, *55, 5856-5860.*

M. N. Hopkinson, A. Gomez-Suarez, M. Teders, B. Sahoo, F. Glorius, *Accelerated Discovery in Photocatalysis using a Mechanism-Based Screening Method*, *Angew. Chem. Int. Ed.* **2016**, *55*, 4361-4366.

W. Li, C. Schlepphorst, C. Daniliuc, F. Glorius, *Asymmetric Hydrogenation of Vinylthioethers: Access to Optically Active 1,5-Benzothiazepine Derivatives*, *Angew. Chem. Int. Ed.* ***2016***, *55*, 3300-3303.

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B. Sahoo, M. N. Hopkinson, F. Glorius, *External-Photocatalyst-Free Visible-Light-Mediated Synthesis of Indolizines*, *Angew. Chem. Int. Ed.* **2015**, *54*, 15545-15549.

C. Guo, M. Fleige, D. Janßen-Müller, C. G. Daniliuc, F. Glorius *Switchable selectivity in an NHC-catalysed dearomatizing annulation reaction*, *Nature Chem.* **2015**, *7*, 842-847.

X. Wang, D.-G. Yu, F. Glorius, *Cp*Rh(III)-Catalyzed Arylation of sp^3 C−H Bonds, Angew. Chem. Int. Ed.* **2015**, *54*, 10280-10283.

D. Janssen-Müller, M. Schedler, M. Fleige, C. G. Daniliuc, F. Glorius, *Enantioselective Intramolecular Hydroacylation of Unactivated Alkenes…*, *Angew. Chem. Int. Ed.* **2015**, *54*, 12492-12496.

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J. H. Kim, T. Gensch, D. Zhao, L. Stegemann, C. A. Strassert*, F. Glorius,* *Rh(III)-Catalyzed C-H Activation with Pyridotriazoles: Direct Access to Fluorophores for Metal-Ion Detection, Angew. Chem. Int. Ed.* **2015**, *54*, 10975–10979.

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J.-L. Li, B. Sahoo, C.-G. Daniliuc, F. Glorius, *Conjugate Umpolung of ß,ß-Disubstituted Enals by Dual Catalysis with an N-Heterocyclic Carbene and a Brønsted Acid: Facile Construction of Contiguous Quaternary Stereocenters*, *Angew. Chem. Int. Ed.* **2014**, *53*, 10515-10519.

C. Guo, M. Schedler, C. G. Daniliuc, F. Glorius, *N-Heterocyclic Carbene Catalyzed Formal [3+2] Annulation Reaction of Enals: An Efficient Enantioselective Access to Spiro-Heterocycles*, *Angew. Chem. Int. Ed.* **2014**, *53*, 10232-10236.

D.-G. Yu, F. de Azambuja, T. Gensch, C. G. Daniliuc, F. Glorius, *The C-H Activation/1,3-Diyne Strategy: Highly Selective Direct Synthesis of Diverse bis-Heterocycles via Rh^{III}-Catalysis*, *Angew. Chem. Int. Ed.* **2014**, *53*, 9650-9654.

J. Wysocki, N. Ortega, F. Glorius, *Asymmetric Hydrogenation of Disubstituted Furans*, *Angew. Chem. Int. Ed.* **2014**, *53*, 8751-8755.

C. Richter, K. Schaepe, F. Glorius*, B. J. Ravoo*, *Tailor-made N-Heterocyclic Carbenes for Nanoparticle Stabilization*, *Chem. Commun.* **2014**, *50*, 3204-3207.

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