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Florian F. Mulks

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Curriculum Vitae

soon	Research Fellow (organometallic chemistry w. Prof. G. Bertrand), *University of California: San Diego*
10/2019–03/2020	Research Assistant (green organometallic chemistry w. Prof. E. Hevia), *University of Bern*
01/2020–02/2020	Academic Visit (flow chemistry w. Prof. L. Torrente Murciano), *University of Cambridge*
03/2019–09/2019	Research Assistant (green organometallic chemistry w. Prof. E. Hevia), *University of Strathclyde, Glasgow*
09/2019–09/2019	Academic Visit (flow chemistry w. Prof. L. Torrente Murciano), *University of Cambridge*
11/2018–03/2019	Postdoctoral Researcher (organic chemistry w. Prof. A. S. K. Hashmi), *University of Heidelberg*
01/2019–03/2019	Academic Visit (computational chemistry w. Prof. S. Faraji w. fellowship *HPC-Europa 3*), *University of Groningen*
01/2014–09/2018	Doctorate (summa cum laude ≈ top 5%, organometallic chemistry/ computational chemistry/ spectroscopy w. Prof. A. S. K. Hashmi), *University of Heidelberg*
10/2011–12/2013	Master of Science in Chemistry (overall: 1.2 ≈ A+, thesis: 1.0 ≈ A+ organometallic chemistry w. Prof. A. S. K. Hashmi), *University of Heidelberg*
08/2012–10/2012	Research Intern (heterogeneous catalysis w. Dr. H. Teles), *BASF SE*, *Ludwigshafen*
10/2008–09/2011	Bachelor of Science in Chemistry (overall: 2.0 ≈ A−, thesis: 1.0 ≈ A+ organometallic chemistry w. Prof. A. S. K. Hashmi), *University of Heidelberg*
06/2008–08/2008	Academic Visit (molecular biophysics w. Prof. J. A. Endicott), *University of Oxford*
08/1999–06/2008	Abitur (overall: 1.2 ≈ A+, secondary school), *Elly-Heuss-Schule*, *Wiesbaden*

Awards and Fellowships

soon	Fellowship *Feodor Lynen Research Fellowship* by the *Alexander von Humboldt-Stiftung*
12/2019	Award *Bauer Preis 2019* for the dissertation by the *Alexander und Rosemarie Bauer Stiftung*
01/2019–03/2019	Fellowship *HPC-Europa 3* by the *European Commission*
10/2011–09/2012	Fellowship *Deutschlandstipendium* by the *BASF SE* and the *BMBF Fed. Rep. Germany*
08/2008	Award *Förderpreis der K. E. Loos-Stiftung für naturwissenschaftlich begabte Abiturenten* for scientifically talented secondary school graduates by the *K. E. Loos-Stiftung*

Memberships

04/2020–present	Member (MRSC), *Royal Society of Chemistry*
09/2019–present	Young Member, *Gesellschaft Deutscher Chemiker*
10/2011–10/2018	Member, *European Talent Pool* of the *BASF SE*
08/2007–07/2016	Active Volunteer, *German Technical Relief Service*

Metrics

h-index: 6	Total citations: 97	Talks: 8
Publications: 13	Conferences visited: 16	Posters: 8

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Peer-Reviewed Articles and Communications

13 P. W. Antoni, A. Mackenroth, **F. F. Mulks**, M. Rudolph, G. Helmchen, A. S. K. Hashmi,* "Dibenzothiophenesulfilimines: A Convenient Approach to Intermolecular Rhodium-Catalysed C-H Amination", *Chem. Eur. J.* **2020**, in print, 10.1002/chem.202002371.

12 M. Fairley, L. J. Bole, **F. F. Mulks**, L. Main, A. R. Kennedy, C. T. O'Hara, J. García-Alvarez,* E. Hevia*, "Ultrafast Amidation of Esters using Lithium Amides under Aerobic Ambient Temperature Conditions in Sustainable Solvents", *Chem. Sci.* **2020**, in print, DOI: 10.1039/D0SC01349H.

11 **F. F. Mulks**,* A. S. K. Hashmi, S. S. Faraji, "Sesquicarbene Complexes—Bonding at the Interface Between M–C Single Bonds and M=C Double Bonds", *Organometallics* **2020**, *39*, 1814–1823, DOI: 10.1021/acs.organomet.0c00102.

10 **F. F. Mulks**,* R. Heckershoff, M. Zimmer, A. S. K. Hashmi, "Practical Preparation of Cyclopropenone 1,3-Propanediol Ketal", *Synthesis* **2020**, *52*, 1211–1214, DOI: 10.1055/s-0039-1690830.

9 **F. F. Mulks**, P. W. Antoni, J. H. Gross, J. Graf, F. Rominger, A. S. K. Hashmi,* "1,1-Digoldallylium Complexes: Diaurated Allylic Carbocations Indicate New Prospects of the Coordination Chemistry of Carbon", *J. Am. Chem. Soc.* **2019**, *141*, 4687–4695, DOI: 10.1021/jacs.8b13395.

Highlighted in: ChemistryViews, 1,1-Digoldallylium Complexes, **2019**, URL: https://www.chemistryviews.org/details/news/11140880/11-Digoldallylium_Complexes.html.

8 Y.-Y. Yang, L. Eberle, **F. F. Mulks**, J. F. Wunsch, M. Zimmer, M. Rudolph, F. Rominger, A. S. K. Hashmi,* "Trans Influence of Ligands on the Oxidation of Gold(I) Complexes", *J. Am. Chem. Soc.* **2019**, *141*, 17414–17420, DOI: 10.1021/jacs.9b09363.

7 X. Zhao, T. Bing, Y. Yang, X. Si, **F. F. Mulks**, M. Rudolph, A. S. K. Hashmi,* "Gold-Catalyzed Stereoselective Domino Cyclization/Alkynylation of N-Propargylcarboxamides with Benziodoxole Reagents for the Synthesis of Alkynyloxazolines", *Adv. Synth. Catal.* **2019**, *24*, 71–76, DOI: 10.1002/adsc.201900264.

6 P. Zargaran, **F. F. Mulks**, S. Gall, M. Rudolph, F. Rominger, A. S. K. Hashmi,* "Dinuclear NHC Gold(I) Allenyl and Propargyl Complexes: An Experimental and Theoretical Study", *Organometallics* **2019**, *38*, 1524–1533, DOI: 10.1021/acs.organomet.8b00943.

Supplementary cover: https://pubs.acs.org/toc/orgnd7/38/7#.

5 Y.-Y. Yang, P. Antoni, M. Zimmer, K. Sekine, **F. F. Mulks**, L. Hu, L. Zhang, M. Rudolph, F. Rominger, A. S. K. Hashmi,* "Dual Gold/Silver Catalysis Involving Alkynylgold(III) Intermediates Formed by Oxidative Addition and Silver-Catalyzed C-H Activation for the Direct Alkynylation of Cyclopropenes", *Angew. Chem. Int. Ed.* **2019**, *58*, 5129–5133, DOI: 10.1002/anie.201812577; "Duale Gold/Silber-Katalyse über oxidative Addition zu Alkinylgold(III)-Zwischenstufen und silberkatalysierte C-H-Aktivierung für die direkte Alkinylierung von Cyclopropenen", *Angew. Chem.* **2019**, *131*, 5183–5187, DOI: 10.1002/ange.201812577.

4 **F. F. Mulks**, P. W. Antoni, F. Rominger, A. S. K. Hashmi,* "Cyclopropenylgold(I) Complexes as Aurated Carbenoids or Quasi-Carbenes", *Adv. Synth. Catal.* **2018**, *360*, 1810–1821, DOI: 10.1002/adsc.201701526, "Very Important Publication".

Front cover: *Adv. Synth. Catal.* **2018**, *360*, 1733, DOI: 10.1002/adsc.201800400.

3 **F. F. Mulks**, S. Faraji, F. Rominger, A. Dreuw, A. S. K. Hashmi,* "Highly Strained Organogold Complexes and their Gold- or Rhodium-Catalyzed Isomerizations", *Chem. Eur. J.* **2018**, *24*, 71–76, DOI: 10.1002/chem.201704652.

Bold Name F. F. Mulks' contribution
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2 T. Wurm, **F. Mulks**, C. R. N. Boehling, D. Riedel, P. Zargaran, M. Rudolph, F. Rominger, A. S. K. Hashmi,* "Synthesis of Different Classes of Six-Membered Gold(I) NHC Complexes by the Isonitrile Route", *Organometallics* **2016**, *35*, 1070–1078, DOI: 10.1021/acs.organomet.6b00023.

Highlighted in: ChemistryViews, A Route to Gold–NHC Complexes, **2016**, URL: https://www.chemistryviews.org/details/news/9191091/A_Route_to_GoldNHC_Complexes.html

1 C. Riedinger, M. E. Noble, D. J. Wright, **F. Mulks**, I. R. Hardcastle, J. A. Endicott, J. M. McDonnell,* "Understanding Small-Molecule Binding to MDM2: Insights into Structural Effects of Isoindolinone Inhibitors from NMR Spectroscopy", *Chem. Biol. Drug Des.* **2011**, *77*, 301–308, DOI: 10.1111/j.1747-0285.2011.01091.x.

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