



Mie Højer Larsen

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in /in/mielarsen

Profile

I am passionate about chemistry, details and getting things done. I enjoy applying logic and my knowledge in the optimization of a process – whether it is a chemical process or a work process.

Professional Skills

Method development
Process optimization
Result analysis
Planning and executing work
Communication and teaching
Team leading

Chemical Skills

Organic Chemistry and Synthesis
Physical Organic Chemistry
Organometallic Chemistry
Analytical Chemistry
Computational Chemistry

Personal Skills

Responsible
Independent team player
Well structured
Methodical and detail oriented
Passionately curious
Cooperative
Smiling and good humored

Work Experience

Maternity leave with Agnes

Jul 2016 - Current

Center for Exploitation of Solar Energy, University of Copenhagen

Nov 2014 - Sep 2015

Post doc / Assistant Professor

Determination of reactivity and cooperativity between gold, palladium, and copper in organic synthesis

- Computations – mechanisms
- Supervision and education of students
- Lecturing and conducting exams
- Presentation of results in peer-review journals

Maternity leave with Johannes

Dec 2013 - Aug 2014

Organisch-Chemisches Institut, Universität Heidelberg, Germany

Sep 2011 - Oct 2014

Post doc

Development of gold and palladium catalysts for organic synthesis.

Determination of reactivity, selectivity, and possible variations of these (with Prof. A.S.K. Hashmi)

- Research visits to UCLA Chemistry and Biochemistry, USA (with Prof. K.N. Houk) and to Departamento de Química Inorgánica ICMA, Universidad de Zaragoza-CSIC, Spain (with Prof. A. Laguna)
- Method development – synthesis, purification, catalysts, analysis
- Validation – of new and existing methodologies
- Computations – mechanisms, predictions of properties
- Supervision and education of students and interns
- Presentation of results at international conferences and in peer-review journals

Department of Chemistry, University of Copenhagen

May 2008 - Jun 2011

Ph.D student

Investigation and optimization of copper in organic synthesis, including development and validation of an NMR method for reactivity and kinetic studies (with Prof. M.B. Nielsen)

- Research visit to Laboratoire de Chimie de Coordination du CRNS, Toulouse, France (with Prof. R. Chauvin)
- Method development – catalysts, analysis
- Analytical work – quantitative and qualitative studies
- Validation – of new and existing methodologies

Analytical methodologies

NMR
GC-MS
MALDI
HPLC
MPLC
UV-Vis
FTIR

Use and setting-up methods

Languages

Danish (native)
English (professional proficiency)
French (limited proficiency)
German (elementary proficiency)

Hobbies

Photography
Cooking
Traveling
Reading
Family and friends

Education

2008 – 2011 Ph.D in organic chemistry from the Department of Chemistry, University of Copenhagen
2005 - 2008 Cand. Scient in chemistry from the Department of Chemistry, University of Copenhagen
2002 - 2005 Bach. Scient in chemistry from the Department of Chemistry, University of Copenhagen

Other Experience

2008 - 2011 Board member (cashier, 2 years, and chair, 1 year) for housing co-operative
2006 - 2009 PR work – responsible for the chemistry part of the annual Festival of Natural Sciences
2005 - 2006 Part time employee, Radiometer Medical A/S
2005 Part time employee, T-Cellic

Selected Publications

M.H. Larsen, K.N. Houk, A.S.K. Hashmi: “Dual Gold Catalysis: Step-Wise Catalyst Transfer via Dinuclear Clusters”, *J. Am. Chem. Soc.*, **2015**, *137*, 10668-10676.
M.H. Larsen, M.B. Nielsen: “The Gilded Edge in Acetylenic Scaffolding II: A Computational Study of the Transmetalation Processes Involved in Pd-Catalyzed Cross-Couplings of Gold(I) Acetylides”, *Organometallics*, **2015**, *34*, 3678-3685.
M.H. Vilhelmsen, J. Jensen, C.G. Tortzen, and M.B. Nielsen: “The Glaser-Hay Reaction: Optimization and Scope based on ¹³C-NMR Kinetics Experiments”, *Eur. J. Org. Chem.*, **2013**, 701-711.

For a complete list of publications, please see my LinkedIn profile.

Recommendations

- Professor A. Stephen K. Hashmi (+49 6221-54 8413; hashmi@hashmi.de), Organisch-Chemisches Institut Universität Heidelberg, Germany
- Professors Mogens Brøndsted Nielsen (+45 51 70 01 44; mbn@chem.ku.dk), Department of Chemistry, University of Copenhagen