



Dr. Simon Clausing (né Salzl)

Current Address: Hallstensgatan 7, 75334 Uppsala, Sweden
Phone: +49/160/94833968
Mail: Simon.Clausing@kemi.uu.se
Website: <http://katalog.uu.se/profile/?id=N18-578>
Nationality: German
Date of Birth: 04.07.1989
Marital status: Married

Personal Profile:

I have finished my PhD in Chemistry in 2017 at the Johannes-Kepler-University in Linz. In total, I spent three years working there, publishing three papers as main author during this time. Afterwards, I started an intermediary three-month post-doc position at the Institut de Science et d'Ingénierie Supramoléculaires in Strasbourg to broaden my knowledge of different subjects. Currently, I am working at the Ångström Laboratory in Uppsala. Ideally, I will set a foundation for a career in academia, as I am equally interested in research and teaching.

Career Summary:

Starting with my Master's Thesis, I did research on the field of photochemistry, especially with regards to photocatalytic reactions. Having started as an organic synthesist, using photogenerated radicals to achieve controlled product formation, I then worked on hydrogen generation using metalorganic dyes and catalysts in aqueous solutions. In this field, I have and will continue to publish fundamental findings on novel reaction possibilities to obtain solar fuels. My stay in Strasbourg taught me to work with hydrogels, and in Uppsala, I will research frustrated Lewis pairs in regards to their ability to fixate and catalyze the reduction of CO₂. I am well versed in many photophysical and electrochemical characterization methods with a special interest in mechanical insight.

Education:

2018 – to date	Postdoc position at the Orthaber group in Uppsala
2017 – 2018	Postdoc position at the De Cola group in Strasbourg
2014 – 2017	PhD student at the Johannes Kepler University (JKU), Linz. Main interest: photocatalytic hydrogen generation . Supervisor: Prof. Dr. Günther Knör.
2012 – 2014	Master student at Regensburg University. Main subject: Organic Chemistry. Thesis title: Radical Generation by Photocatalytic Single Electron Transfer Reactions . Research performed at the Institute of Organic Chemistry and Biochemistry ASCR, v.v.i., Prague. Thesis supervisors: Prof. Dr. Burkhard König (Regensburg), Dr. Ullrich Jahn (Prague).

2009 – 2012 Bachelor Student of Chemistry at Regensburg University.

Teaching Experience (all at JKU Linz):

Chemical Calculations for Plastics Engineers (lecturer): winter semester 2016/17

Lab course Inorganic Chemistry (supervisor): summer semester 2015, 16, 17

Lab course General Chemistry (supervisor): winter semester 2014/15, 15/16

Lab Techniques:

General and advanced synthetic techniques (Schlenk, water-free reactions, oxygen-free reactions, glovebox); characterization of new compounds (NMR, UV/vis, IR, mass spectrometry); characterization of photoactive compounds (fluorescence, excited-state lifetimes, spectroelectrochemistry); detection of gases (gas chromatography, Clark electrode, oxygen sensors).

Publications (peer-reviewed):

J. Prock, S. Salzl, K. Ehrmann, W. Viertl, R. Pehn, J. Pann, H. Roithmeyer, M. Bendig, H. Kopacka, L. Capozzoli, W. Oberhauser, G. Knör, P. Brüggeller. *First Application of a Water-Soluble Matrix-Stabilized Palladium Nanoparticle Catalyst for Photocatalytic Hydrogen Generation with High Activity and Stability*, in: *ChemPhotoChem*, Volume 2, Pages 271-276.

S. Salzl, Y. B. Seymen, P. Oberhumer, G. Knör *Phthalocyanine-Sensitized Generation of Silver Nanoparticles in Aqueous Buffer Solution triggered by Red LED-Light*, in: *J. Nanosci. Nanotechnol.*, Volume 18, Pages 4393-4396, 2018.

S. Salzl, M. Ertl, G. Knör *Evidence for Photosensitized Hydrogen Production from Water in the Absence of Precious Metals, Redox-Mediators and Co-Catalysts*, in: *Phys. Chem. Chem. Phys.*, Volume 19, Pages 8141-8147, 2017.

J. Prock, C. Strabler, W. Viertl, H. Kopacka, D. Obendorf, T. Müller, E. Tordin, S. Salzl, G. Knör, M. Mauro, L. De Cola, P. Brüggeller *Unusual Stability of Dyads during Photochemical Hydrogen Production*, in: *Dalton Trans.*, Volume 44, Pages 20936-20948, 2015.

S. Chercheja, J. Klívar, A. Jančařík, J. Rybáček, S. Salzl, J. Tarábek, L. Pospíšil, J. Vacek Chocholoušová, J. Vacek, R. Pohl, I. Císařová, I. Starý, I. Stará *The Use of Cobalt-Mediated Cycloisomerisation of Ynedinitriles in the Synthesis of Pyridazinohelicenes*, in: *Chem. Eur. J.*, Volume 20, Pages 8477-8482, 2014

Conference Oral Presentations (as speaker):

S. Salzl, Y. B. Seymen, G. Knör *Simple and Reversible Photocatalytic Reduction of Ferredoxin in Pure Water*, in: 17th Austrian Chemistry Days, Salzburg, 2017.

S. Salzl, K. Oppelt, G. Knör *Applications of a Photochemically Generated Silicon Phthalocyanine Radical*, in: 21st International Conference on Photochemical Conversion and Storage of Solar Energy, St. Petersburg, Page 49, VVM Publishing Ltd., 2016.

S. Salzl, G. Knör *A Simple Immersion Setup for LED Irradiation in Solution*, in: ISF-1 young (Eds.): Satellite Meeting of the 1st International Solar Fuels Conference 24-26 April 2015 - University of Uppsala, Sweden, Page 42, 2015.

Conference Poster Presentations:

S. Salzl, Y. B. Seymen, G. Knör *Photocatalytic Generation of a Stable Radical Anion in Water as a Reducing Agent*, in: 22nd International Symposium on Photochemistry and Photophysics of Coordination Compounds (ISPPCC), Oxford, United Kingdom, 2017

G. Knör, S. Salzl *Photocatalytic Hydrogen Generation Using Noble Metal Free Porphyrin Catalysts Dissolved In Pure Water*, in: 9th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA), Strasbourg, France, 2016, Book of Abstracts, Page 192, 2016.

S. Salzl, G. Knör *A Simple Immersion Setup for LED Irradiation in Solution*, in: 1st International Solar Fuels Conference, 26 April-1 Mai 2015, Uppsala, Sweden, Page 142, 2015.

Funding:

PhD thesis: financially supported by the Austrian research promotion agency and the climate and energy funds (FFG project 841186 "Artificial Photosynthesis")

Postdoc in Strasbourg: research project funded by Roche

Postdoc in Uppsala: supported by the Carl-Trygger Stiftelsen – individual fellowship to Simon Clausing