Julian Geiger

Curriculum Vitae

General Information

Address	Avinguda dels Països Catalans 1, 43007 Tarragona, Spain
Birth	Date: 30th November 1994. Location: 90471 Nuremberg
Nationality	German
E-Mail	jgeiger@iciq.es
Phone	(+34) 611644538

Education

10/19 – present **PhD Student** *Núria López research group*, Institute of Chemical Research of Catalonia

06/18 – 12/18 **Master's Thesis** *BASF, Ansgar Schäfer research group (ROM/CQ)*, Grade: 1.0
Structure generation for the automated investigation of reaction networks.

10/16 – 12/18 **Chemistry M.Sc.** *Friedrich-Alexander-University Erlangen-Nuremberg*, Grade: 1.0

04/16 – 07/16 **Bachelor's thesis** *Andreas Görling research group*, Grade: 1.0
Density Functional Theory investigations on potential catalysts for CO_2 activation on the basis of Cu(I)–NHC complexes with TURBOMOLE

2013 – 2016 **Chemistry B.Sc.** *Friedrich-Alexander-University Erlangen-Nuremberg*, Grade: 1.2 (Valedictorian)

2005 – 2013 **A-levels** *Adam-Kraft-Gymnasium Schwabach*, Grade: 1.4

Scholarships

2015 – 2018 Financial funding by the German government and the LEONHARD KURZ Stiftung & Co KG through the German national scholarship program "Germany Scholarship".

08/16 – 10/16 6-week inorganic chemistry internship at the Texas-Tech-University, Lubbock, funded by the "Research Internships in Science and Engineering" program of the German Academic Exchange Service (DAAD RISE). *Findlater research group.* Synthesis of Ir(I) – Pincer complexes and their usage as catalysts for the isomerization of internal alkynes to allenes.

List of publications

18.08.2022 Geiger, J., Sabadell-Rendón, A., Daelman, N. & López, N. Data-driven models for ground and excited states for Single Atoms on Ceria. *npj Comput. Mater.* **8**, 171 (2022).

05.08.2022 Geiger, J. & López, N. Coupling Metal and Support Redox Terms in Single-Atom Catalysts. *J. Phys. Chem. C* **126**, 13698–13704 (2022).

22.07.2022 Geiger, J., Settels, V., Deglmann, P., Schäfer, A. & Bergeler, M. Automated input structure generation for single-ended reaction path optimizations. *J. Comput. Chem.* **43**, 1662-1674 (2022).

04.03.2022 Wan, W., Geiger, J., Berdunov, N., Luna, M. L., Chee, S. W., Daelman, N., López, N., Shaikhutdinov, S. & Cuenya, B. R. Highly Stable and Reactive Platinum Single Atoms on Oxygen Plasma-Functionalized CeO_2 Surfaces: Nanostructuring and Peroxo Effects. *Angew. Chem. Int. Ed.* **61**, e202112640 (2022).

21.05.2020 Geiger, J., Sprik, M. & May, M. M. Band positions of anatase (001) and (101) surfaces in contact with water from density functional theory. *J. Chem. Phys.* **152**, 194706 (2020).